Chirurgia curiosa: or, the newest and most curious observations and operations in the whole art of chirurgery, regularly methodized ... and rendered intelligible ... / Written originally in High-Dutch, by ... Matthaeus Gothofredus Purmannus ... Illustrated with large chirurgical figures, of patients as well as instruments, invented by Dr. Solingen ... To which is added Natura morborum medicatrix: or, Nature cures diseases ... By Conrade Joachim Sprengell [the translator].

Contributors

Purmann, Matthias Gottfried, 1649-1711. Solingen, Dr. Sprengell, Conrad Joachim, -1740.

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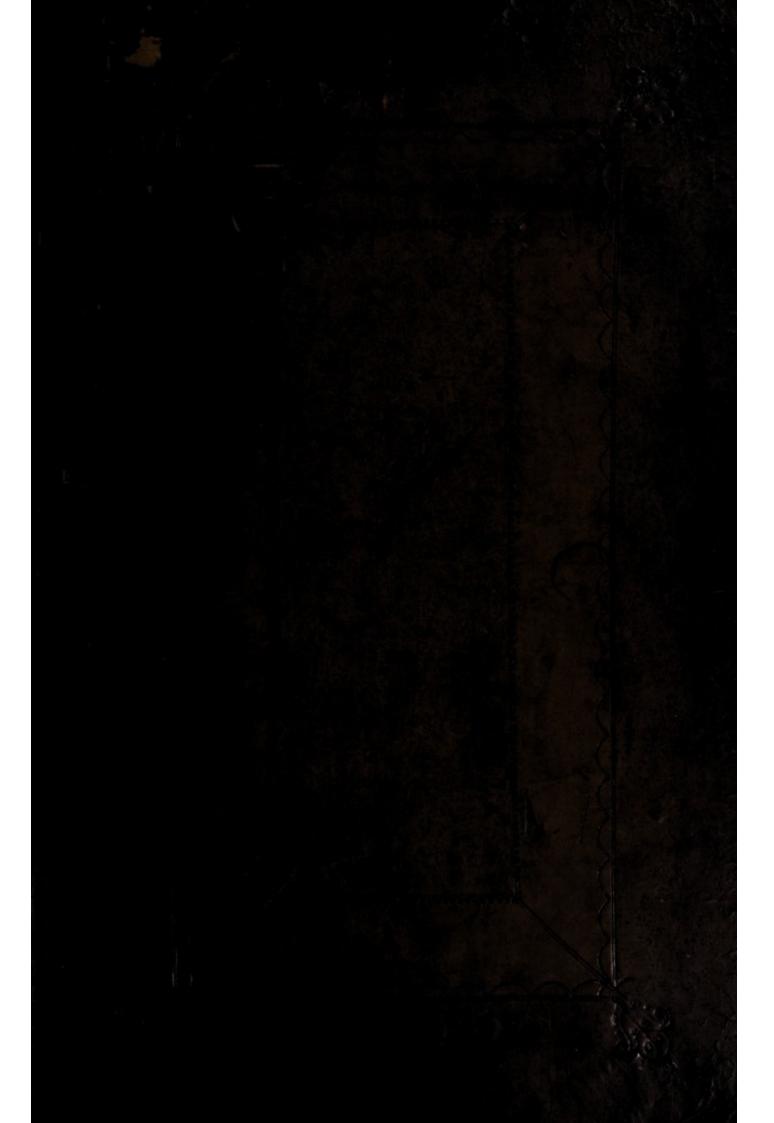
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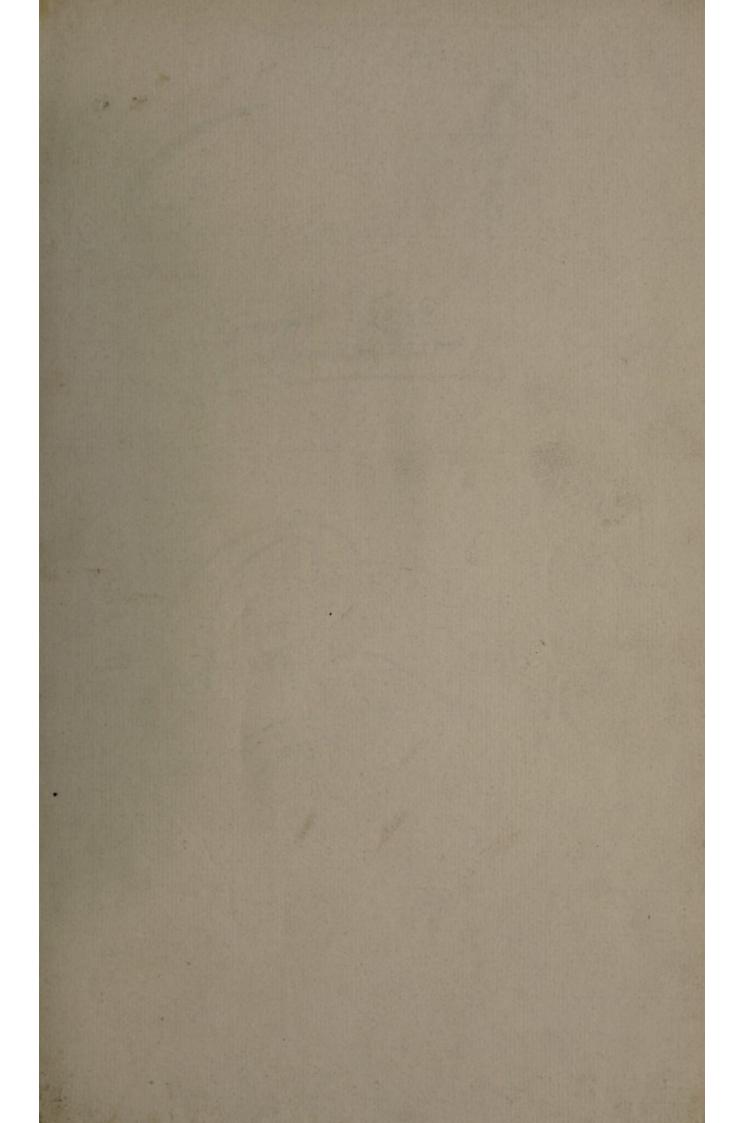


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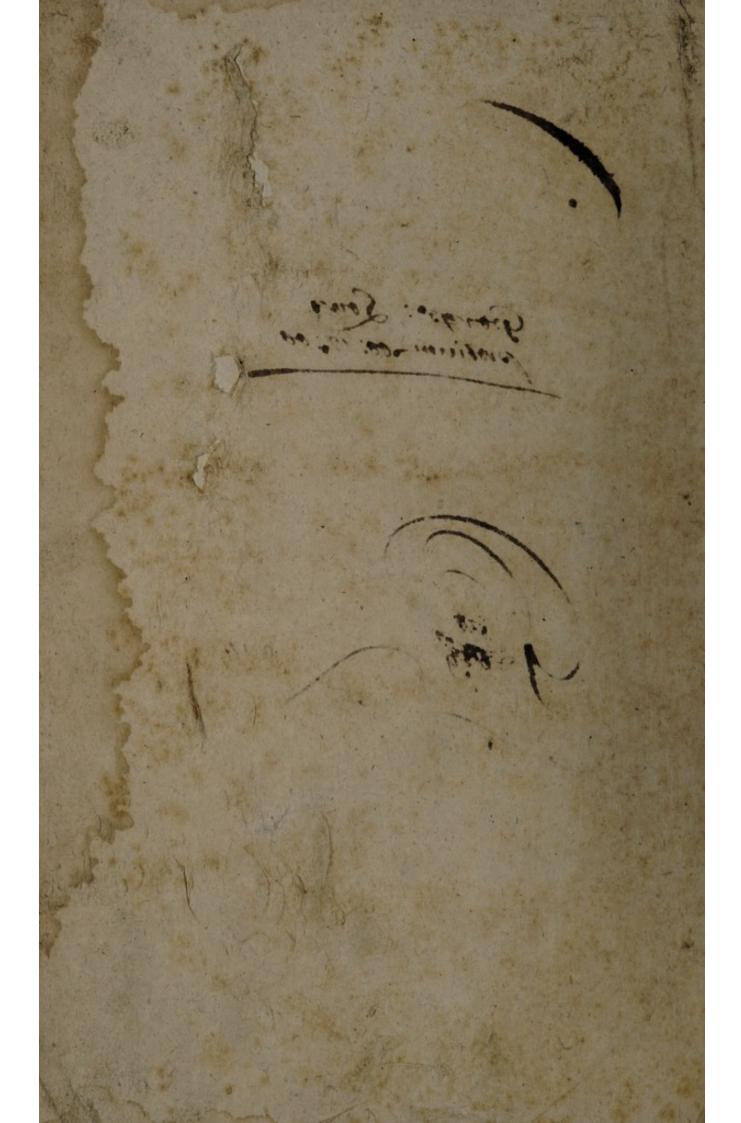
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Nov. ist.

William Comper

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Nov. 1st. 1705.

William Comper.

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The NEWEST and most Curious

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AND

OPERATIONS

In the Whole ART of

CHIRURGERY

Regularly Methodized, Explained and Rendred Intelligible and Easie to every Practitioner: whether relating to Manual Operations, or the Choice and Application of Proper Remedies. Not to be found in other Authors.

Written Originally in High-Dutch, by the Learned

MATTHEUS GOTHOFREDUS PURMANNUS

Chief Chirurgeon of the City of Breslaw in Germany, and of the Hospitals of St. Job and All-Saints.

ILLUSTRATED

With Large Chirurgical Figures,

Of Patients as well as Instruments, Invented by Dr. Solingen.

Curiously Engraven on COPPER PLATES.

To which is Added

Natura Morborum Medicatrix:

OR,

NATURE Cures Difeases.

WHEREIN

The Energy of Nature is demonstrated, her Operations explained, and her various Steps rendred Intelligible.

By Conrade Foachim Sprengell, M. Physiodidactus.

LONDON:

Printed for D. Browne at the Black Swan, R. Smith at the Angel and Bible, and T. Browne at the Green Dragon, without Temple Bar. 1706.

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To His Royal Highness

GEORGE,

Norway, and of the Goths and Vandals; Duke of Schlefwick, Holstein, Stormar, Dithmarch, and Cumberland; Earl of Oldenberg, Dolmenhorst and Kendal; Baron of Ockingham; Lord High Admiral of England and Ireland; Generalissimo of all Her Majesties Forces by Sea and Land; Lord Warden of the Cinque Ports; Constable of Dover Castle; Knight of the Most Noble Order of the Garter; and one of the Lords of Her Majesties most Honourable Privy Council.

Most Illustrious Prince,

HAT Your Royal Highness is Graciously pleas'd to do this Kingdom the Honour to concern your self in the Administration of Publick Affairs, and to sill the Offices of Greatest Importance in these Kingdoms, with A 2 your

your Personal Care and Admirable Sagacity, in a time when a Just and Glorious War requires the Assistance of the Wisest Heads and most Couragious Hearts and Hands; is an ample Consirmation of the Constant Zeal, your Royal Highness has shew'd upon all Occasions, to Preserve and Advance the true Interest and Welfare of this Happy Constitution; in Opposing the Secret or Open Attemps of a Haughty, Ambitious Monarch, who has long designed the utter Destruction of its Religion, Government and Nation.

For this Reason, the whole Kingdom regards Her Majesties Choice of your Royal Highneß to Discharge such Weighty Trusts, as an Effect of the Justice and Extraordinary Prudence of that August and Incomparable Princes; who has Wifely judg'd, that, all things confiderd, Her Majesty could not commit Affairs of the Highest Concern into any other Hands more Safely, than in those of your Royal Highness; whom Heaven has enrich'd with a Magnanimous Soul, equally Brave, Solid, and Judicious; Who, by Inclination and Affection, as well as Interest, studies the Publick Good of all Her Majesties Subjects; and is so Happy in it, as to have the Good Word and Wishes of all Men, and the Ill Will of None.

But it's neither my Business, in this Humble Address, nor within the reach of my Capacity, to attempt your Royal Highness's Illustrious Character; I only Beg your Gracious Acceptance of this Treatise; which I have the greater reason to hope for, from a Prince of your Excel-

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The DEDICATION.

lent Qualifications, by reason of its great Use-fulness in Restoring to, and Preserving all Mankind in Health and Vigour; more especially those Brave Soldiers and Sailors under your Royal Highness's Command, who suffer by the Common Accidents of War, or the Cruelties of Barbarous and Inhuman Enemies: For, as all those Unfortunate Men are the Objects of your Care and Compassion; so a Book, that Learnedly and Experimentally prescribes proper Remedies against such growing Mischiefs, can never be Unacceptable to a Prince, whose Goodness is as Extensive as the Universe.

The Original was writ in High Dutch, by a Learned, Skilful and long Experienced Chirurgeon in Germany; containing the Curious Observations Operations and Methods of Cure, in all the difficult parts of the whole Art of Chirurgery; and being Well recommended to the World, by many of the most Approved Physicians and Chirurgeons in that Country; I could not, in Common Gratitude to Her Majesties Government, under which I reside, but communicate it to the English Artists in their own Language; at a time when, without Disparagement to their own great Judgments, they have so much occasion to serve themselves, of such Curious Observations and Experiments, the Life of Practice, as they will here be plentifully Accommodated with, to their entire Satisfaction in the greatest Doubts and Difficulties.

It is fincerely wished, may it please your Royal Highness, that Practitioners in this Noble Science, would Publish nothing but what they have

The DEDICATION.

have Maturely Observed and Experienced; and then Physick and Chirurgery, which has too long Dwindled in Doubts and Uncertainties, would be established upon a Sure Foundation, which at last we have some reason to expect, since so many Industrious, Ingenious and

Learned Men are endeavouring it.

To this Volume I have joined a small Treatife of Nature, agreeable to the Sentiments of the Best Physicians and Philosophers, which is the Basis on which they ground their Practice, and from whose Affistance they can only expect Success. In which I have shewed what Nature is; her various Motions and Operations; how The contributes to the Cure of Diseases; and how she may be Relieved by Art, when under any Disorder or Oppression. Things of absolute necessity to be known and consider'd by every Practitioner, in order to the Prolongation of Human Life. All which I beg your Royal Highneß to Accept, as an Homage render'd to your Admirable Virtues, and that you would gracioully permit me to avow, that I am with an Ardent Zeal, a Profound Respect and an Inviolable Fidelity,

Great Sir,

Your Royal Highness's

Very Humble and most Obedient Servant,

Conrade Joachim Sprengell.

Translator's PREFACE

TO THE

READER.

ENDING, not long since, into Germany, my Native Country, for Some Books, that I could not provide my self of in England, a particular Friend and an Eminent Physician in that Country, among several others, sent me this Chirurgia Curiosa, and recommended it as a Work much Admired, Approved and Applauded, by the most Ingenious Practitioners in Physick and Chirurgery, and had been lately Printed both at Leipsig and Franckfort. This Character of the Book from so great a Judge, put me upon Reading and considering it; wherein, to my great satisfaction, I not only discovered the Honesty, Plain-dealing, Care, Prudence, and Sincerity of the Author; but through the whole Book all Accidents occuring in the whole Art of Chirurgery, Nicely and Judiciously considered; bis Opinion and Practice confirmed by remarkable Instances and curious Observations; and, to enlighten the Reader's Understanding in Manual Operations, he has inserted several Chirurgical Figures, and establish'd the Causes, Progress and Effects of every Accident upon its proper Basis; rendring the whole Discourse as Acceptable, as his Medicines are Admirable.

The Author is not only esteemed one of the most Experienced and Judicious Chirurgeons in Germany; but

The Translator's PREFACE.

as a Person highly Honoured and Beloved; as may be seen in the several Encomiums in High Dutch made by divers Learned Physicians and Chirurgeons, to congratulate him upon the Publication of this Treatise. He was many years a Chirurgeon in the Camp before he settled at Breslau, where he was made Chief Chirurgeon of two Hospitals, viz. that of St. Job and the Holpital of All Saints; during which time he writ Five Books under the following Titles: Strange and Wonderful Cures of Wounds made by Gun-shot. His great piece of Chirurgery in Quarto, called the Lorber Crantz or Lawrel Crown. A Treatise of Diseases in the Eyes; another of Salivation; and, as the Sum and Substance of the whole Art of Chirurgery, this Chirurgia Curiofa, which is not only such in Words but in Fact, as is legible to all that have but a competent Understanding in the Matter; for in truth, never was Chirurgery brought to greater Perfection; nor accompanied with more Exact and Orderly Operations, Remarks and Examples, than what are contained in this Volume; nor more effectual Methods and Medicines propounded, to obtain a Speedy, Safe and Easy Cure. These were the Sentiments first resulting from my own Contemplations on this Admirable Work; and communicating it to many others that were able to Judge, and finding them all agree in a good Opinion of the Author and his Work; it gave me a great Inclination to communicate it to the English in their own Language; which I the rather thought my self capable of performing to their Satisfaction; because I have spent much time in Chirurgical Studies; being of opinion that the Knowledge of External Maladies, was a necessary step towards the Cognizance of Inward Diseases; nor indeed can

any Man be a good Physician without itsha But too many Physicians understand little and nothing in Chi rurgery may they whink a an undervaluing to them, and therefore despife it which methinks is a very unaccountable and ill grounded Fancy; to imagine it less bonourable to Gure External than Internal Dif eafer. On Muys, in his Preface to his Tertia Decas, telli fuch Phylicians, that they acted abfurdly, in esteeming in an Honour to foul their Fine Fingers with Nasty black Coals in Chymical Processes, and yet think it a disparagement to their Dignities, to lay their Hands on a Wounded Human Limb. Chymistry is a Noble Study ; but to Help the Lame, to restore the Rhind to Sight, or Cure the Wounded, is a much more Generous and Christian-like Employments What an Tresviewable Loss had Posterity Suffered, if the Ancients had taken up with the contrary Opinion; or how could our Great Master Hippocrates, have obliged the World with has Excellent Aphorisms, Pranoons & cuif be had not been throughly conversant ni all parts of the Healing Faculty ? To thefe Noble pur poses I recommend the ensuing Treatise, in order to make every Practitioner in Chirurgery capable of his business; and then the World will not be plagued with So many Ignorant Pretenders: Simple Fractures, Wounds, Tumours, Inflammations, &c. would not so commonly run into Incurable Ulcers, Fiftula's, Cancers and Gangrenes; nor so many Patients be Ruined, which might have been preserved and rendred Serviceable to their Relations and their Country, if the Methods and Medicines so Fudiciously Prescribed by our Author, and perhaps not to be found in any other Work, had been diligently observed and prudently and timely Applyed. To

To render this Work a Compleat System of all the Curious parts in Chirurgery; (the Author baving Omitted the Infertion of Chirurgical Instruments; OI have, by Mr. Cowper's Advice, supplied that Defect from Dr. Solingen, whose Instruments weither of his own Ivention, or fuch of the Ancients as have been at tered by him for the, better, and are extraordinarily Commended for their great Usefulness in Chirargery the Reader will find discoursed in the Second Chapter and their Outs or Figures Engraved on Copper Plates and the Tables distributed into their proper Places a but it being impossible to describe Instruments for all Unforeseen Accidents, there the Artists mist be left to exercise his own Ingenuity, in Fashioning them Generous and Christian like Employmen sogrand sid sof -As for the Style employed in the Translation I cannot think my Jelf under any obligation to Apologize? for the I am a Foreigner and not yet arrived at the genuine Politenels and Elegancy of the English Tongue, yet the Reader will find it perspicuous and in telligible; and as fuch I hope will favourably Accept it; pofes I recommend the enfuing Treshi W Had gat digg make every Practitioner in Chirurgery capable of his business, busin Richt to ld will not be plagued with fo many Ignorant Pretenders: Simple Fractures, Wounds, Tumours, Inflammations, &c. would not frieres statement Incurable Ulcers, Fiftula's, Cancers and Gangrenes; nor fo many Patients be with humph b might have been preserved and rendred Serviceable to their Relations and their Country, if the Methods and Medicines to Fudicioutly Prescribed by our Author, and perhaps not to be found in any other Work, had been diligently observed and pruderty and timely Applyed.

The DEDICATION.

By the Grace of God Electedia Germany, Hungary Bo Dalmatiavo Croavia, Schwonia of Arch Duke of Auftria Parintha, Carniola, Luxenbu Wirtenburgs and Tecka Upper and Lower Silefia; Prince Suabia; Marquis of the Sacred Roman Empire, of Burgau, Moravia, the upper and Lower Lusatia, Prince and Count of Habspurg, Tyrol, Pfird, Kyburg and Goritz; Landgrave of Alfatia; Lord of the Mark of Sclavonia, Portnaon, Salines, O'Coding

Most Illustrious Sir,

Humbly implore your Imperial Majesties most Gracious Pardon, that a Person of no greater Figure in your vast Dominions than my self, tho one of your most Dutiful and Loyal Subjects, should presume to prostrate my self.

The DEDICATION.

felf at the Feet of your Imperial Majesty, and humbly prefent this Book to your Royal Hands. but fince all lesser things seek the Protection of Greater; that Rivulets run with that defign to the Ocean, and small Fires afcending the Superior Regions, direct their Heat and Flame towards the Sun: Why should I fear, in this little Offering, to displease the greatest of Monarchs, the Sun of our State Meridian; whose Magnifick and Generous Soul never despifes the more minute Endeavoyrs of his meanest Subjects, for the Publick Good: under which Encouragement, I humbly beg your Imperial Majesties Gracious Acceptance of this Work. which with great Labour and Industry I have compiled for the Common Benefit of the Universe, and I shall esteem that signal Condefeenfion in your Imperial Majesty, as the greateft Honour that could be conferred upon

Your Imperial Majesty's

Most Entirely Devoted, Humble,

Faithful Subject and Servant,

M. G. Purmannus.

Humbly implote your imperial Majesties most Gracious Perdon, that a Person of no greater biguie in your vall Dominions than my fell, the one of your most Duritul and Loval Subjects, should presume to prestrate my

THE

Author's PREFACE

TO THE

READER.

Tlength, Candid and Ingenious Readers, I present you with the long promised, and no less expected, Chirurgia Curi-A Title that no body I know of has employed, except Antonius Novarinus; but those that are acquainted with that Book which he calls Anatomia Chirurgia Curiofa, cannot be unfenfible that it merits no such honourable Epithet; tho, to do it fustice, there are some things in it not to be despis'd, but rather deserve Commendations. But of this Treatise, I hope it may be modestly affirmed, that it bears a proper Title, since it contains nothing that is Infignificant or Vulgar, but all the choice and curious Operations in the whole Art of Chirurgery; with such plain and necesfary Directions, Explications, repeated Cautions, and well adapted Prescriptions, as will render it intelligible and advantagious to the great end defired; if the Reader will be but so kind to himself, as to peruse it diligently, and observe its Rules with equal Care and Ingenuity. Other things that relate to the common Practice of Chirurgery, have been already sufficiently treated of in my Chirurgical Lawrel Crown, in my True Camp Chirurgeon, and my Treatife of Wounds made by Gun-shot, &c. to which I refer the Inquisitive. fign to obtain more Wealth or Lignour, or out or

The Discourse now in your Hands, has been longer in appearing abroad, than agreed with my first Purposes and Promises, occasion d sometimes by my great Hurry in Business; and other whiles, by the too frequent Attacks of violent and tenious Sicknesses; but I hope my Care in Compiling, will atone for the involuntary Fault

in Delaying it.

thought

This Book, like my other Discourses in Chirurgery, is divided into three Parts; the Head, the Body, and the Members; in which I have industriously avoided Prolixities, and unnecessary Digressions, and yet have omitted nothing that might be serviceable to the

The Author's PREFACE.

the Reader. Where I found the Causes, Diagnosticks and Differences in Distempers, Erroneously defined in other Authors, or taken upon trust by a Series of unwary Custom, I have establish'd them upon a genuine Hypothesis, agreeably to the best and latest Discoveries, and also inserted the Opinions of divers Learned Men upon every Head, that the Reader might judge for himself, and make his Election accordingly. The Medicines and Methods of Cure, are only such as I have experienced in my own Practice for many Years, and that nothing might be wanting to conffirm the Truth and Certainty of my Allegations; at the Conclusion of every Chapter is inserted Two or Three remarkable Historical Observations, and Examples, of Persons cured by the Methods I have proposed and fometimes the Ill Confequences that attend contrary Practices that the Reader might have all the Light twas possible to give him, in the great variety of Accidents and the Work be truly called Chirurgia Curiola.

Here I think my felf obliged to acknowledge, that I sometimes resolved not to communicate such a Choice and Elaborate Piece of Work to the Publick, that I might not give my Enemies an opportunity of shewing their Malice, in Snarling and Carping at what they do not understand, and are too great Opiniatres to be instructed in. But the Earnest Importunities of my Friends, and especially Strangers: the reiterated Requests of divers Eminent Physicians and Chirurgeons; and, which is more than all, the Benefit that might redound to Mankind, has subdued that Resolution, and at last prevailed upon me, not to conceal those Secrets, that God Almighty has bleffed me with the Knowledge of; but to impart them as freely as Preceived them. I am now upon quitting the Stage of this World, and on a Journey to my Long Home; for which Reason I prefume, none that know me, will think this Publication is with a Defign to obtain more Wealth or Honour, or out of any Jecular Interest what sever, but meerly to Benefit Posterity; and accordingly I defire the Candid Reader's Acceptance of it, agreeably to the Truth, Honesty, and Sincerity of my Intentions.

But, I know it generally fares with Books, as with Viands at a fumptuous Feast, which, tho never so Palatably and Accurately Dress'd, the Cook, the Meat, the Sawce or Dressing, will certainly fall under the Censure of some of the Guests, according to their Fancies, Humours, or Delicacy of their Appetites. So a Pert Generation that set up for Criticks, think they shew abundance of With admining other Mens Works, which none but themselves ever thought

The Author's PREFACE.

thought them competent Judges of. However, they will spend their Mouths, and censure some Mens Labours as too Elegant; others, as too Flat and Dull. Some Books they represent as so Prolix, that they obscure the Author's Meaning in a cloud of Words; and others they say are so Concise, that they are scarce Intelligible. In (hort, they fpy some Faults in every Author, when the great Defect is only their want of Modesty or Capacity to understand what they read. Now, if this Book should fall into the Hands of such conceited Sciolists or Sceptical Cavillers; tho' I must expect no fairer Quarter than they are pleased to allow to others, I shall be wholly unconcerned at what they say; for in all probability, the less it pleases them, the better it will please wifer Men; which I have all the Reason in the World to believe, from the favourable Opinion and kind Reception my former Writings have met with among the Learned; which weighs so much with me, that I slight and despise all the Trifling Efforts of the Ignorant and Malicious. To conclude, I heartily recommend this Flower of my Practice and Experience, to the Perusal of the Ingenious, and sincerely wish that every Practitioner in Chirurgery may be attended with Success, in the just and careful Discharge of his Duty; and that he would favourably accept what is freely communicated to him by his

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M. G. Purmannus.

The Author's PREFACE.

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M. C. Pormannus.

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Chap. 19. Paratides, Or Ulceration and Tomours in the Ears, what they

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their different Kinds, and how to Courb diem arti-

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y Manual Operation and the Ule of proper Medicines. Treats of all Accidents in the Head, Face, and Neck.

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Chap. 2. Dr. Solingen's New Invented Instruments, added by the Tranflator, upon the Advice of Mr. Cowper Anatomist.

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Chap. 25. Infirmities of the Tongue, what they are, and how to cure

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Chap. 28. Several Affects and Pains of the Teeth and Gums. Chap. 29. Apostema, and all forts of Purulent Tumours in the Face, their Cause and Cure.

Chap. 30. Scrophulæ Strume, Or knotty hard Tumours of the Glandules. commonly called the King's-Evil, why to difficult to be cured, and a rational Method prescribed.

Chap. 31. Impetigines or Tetters, what they are, and how to cure them. Chap. 32. Verucæ and Tuberculæ, Or Warts and Pimples in the Face, whence they proceed, and how to take them away.

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Chap, 10. Ozewa, what it is, how it may be certainly cured, and why chap, it. Mali me tanger Hing And how to cure it.

All forts of I mounts in the bace, how cured.

Treats of all Chirurgical Operations, relating to Accidents and Infirmities of the Breast and Belly, and the Parts belonging thereunto, with Observations and Remarks on every Part.

Thether there is any necessity in curing Wounds, to ob-Chap. I. ferve the Ancient Method, and proceed to Suppuration by Emplasters, Unguents, Cataplasms, Oils, Balsams & Gc. where the Pa-And whether they may not be fooner healed by other Medicines, without Suppuration or the Use of Greasie, Oily Drugs? Of Wounds in the Breast and Belly in General, and how to proceed to a Cure. Chap, r8.

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riginaly applyed.

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- Treats of Chirurgical Operations and Accidents of the extreme Parts of the Body, as Arms, and Legs, and what is fit to be observed in those Parts.
- Chap. t. Wounds in the Arms and Legs in general, and first what is to be considered, concerning Wounds in the Elbows, Fingers, Knees, and Toes.

Chap. 2. Of Wounds made by Gun-shot, how to draw out the Bullets

- Chap. 3. Venomous Bitings and Stingings, why so malignant, and how to cure them.
- Chap. 4. Oedemata, Or cold phlegmatick Tumours; their different Kinds
- Chap. 5. Phlegmonæ, Or phlegmonous hot Tumours; their Causes, different Kinds and Cure.
- Chap. 6: Panaritium, Or Paronychia, vulgarly called the Worm, its Caufes and Cure.
- Chap. 7. Atrophia, Or wasting of the Limbs, Causes, and perfect Cure. Chap. 8. Aneurisma, what it is, how many Sorts of it, and how cured.
- Chap. 9. A Spongy Excrescence of the Joints, chiefly in the Knee, what it is, with its Signs and Cure.
- Chap. 10. Old Vicers in the Legs, their different Kinds, Causes and Cures. Chap. 11. Sphacelus & Gangræna, what they are, their Causes and Cures.
- Chap. 12. Amputation, how performed, and what is to be observed in the remaining part of the Cure.
- Chap. 13. Fractures of the Bones in general, and particular, with their Cures.
- Chap. 14. Diflocations, their different Kinds, Causes, Signs, Prognosticks, and Cures.
- Chap. 15. Annotations and Remarks upon Cures by Sympathy & per tran-
- Chap. 16. De Chirurgia Infusoria & Transfusoria, and why they are in no greater Esteem.
- Chap. 17. Fontanels or Issues, how and where they are to be made, in what Cases they are beneficial, and what Accidents may happen by continuing the Use of them.
- Chap. 18. Several Remarks concerning Burning and Cauterizing, in what Cases Cauteries may be used, and how the Moxa is to be rightly applyed.
- Chap. 19. What is to be observed in the pairing of Nails, cutting of Corns, and the hard and callous Skins of the Feet, especially in Ancient People, that no ill Accident or Mortification may follow, and what is to be done if any such ill Accident should happen.

Twenty Historical Observations.

CHIRURGIA CURIOSA,

Or, the Newest and most Curious

OBSERVATIONS and OPERATIONS

In the whole ART of

CHIRURGERY.

BOOK I.

CHAP. I.

Of Instruments in General necessary for a Chirurgeon, with a Discourse of Cauteries and Incisions.

O detain the Reader in the Introduction to this Treatife, with a Discourse of the necessary Qualifications requisite in a Chirurgeon, would render me guilty of mispending time to little purpose; since I have already done it in my other Works, and that almost all other Books on this Subject have treated it sufficiently, particularly the Honourable Silesian Nobleman John of *Gersdorp, in his Chirurgical Treatise printed at Strasburg, *Trast. 2. sol. where he was Chief Chirurgeon twenty Years, has in few Words comprehended all that was requisite on that Head. A Chirurgeon, saies he, Qualifications ought to be a Man of a solid Reason, a quick Apprehension, and a prosound of a Chirurge-Understanding, neither too Rash nor Timorous, with a light but steady Hand in all his Operations, that his Patient may suffer no Prejudice, or himself dishonour, by rough, fearful or unskilful Handling. He must also be a well-spoken Man, that can treat his Patient discreetly, in a Dialect

With these Qualifications it's necessary that a Chirurgeon, who aims at being an Artist in his Profession, should also be furnished with good and proper Instruments, to be employed on all Emergencies, which are so absolutely necessary where Medicines are ineffectual, that little or nothing can be done without them. Not to mention others, as in the Stone, Cancers, Ruptures and Tumours; Couching Catarasts, Cutting Hair-Lips, the Partus Casareus, Opening the Belly in a Dropsie, Trepaning the Crashium, Opening the Trachas Arteria in an Angina or Squinancy, and the Breast in an Empyema, &c. In all which Distempers nothing can be done for the Relief of the Patient without proper Instruments, which in a

proper to the Occasion.

skilful Hand will conquer all Difficulties, and effect wonderful Cures.

The famous Dr. Solingen in his newly published Chirurgia, with great Proper InstruReputation to himself, has contributed very much to the Affistance of eve-ments.

ry ingenious Artift, by Instruments of his own Invention, accurately described and engraved in their proper Figures, to which Fabricius ab Aqua pendente, Sculterus, Schmide, Fareus, and many other excellent Authors The Learned and diligent Dr. Blanckard in his New Artificial led the way. Chirurgical Chamber, has performed his Part on this Head with fo great Ingenuity * and Exactness, that scarce better Helps could be wished for. Dr. Bontekoe and Dr. Overkamp in their new incomparable Chirurgical Building, Dr. Jungk in his Chirurgical Operations, Dr. Monck in his Learned Praxis Chirurgia, Dr. Muraltus in his Laudabile Collegium Chirurgia, and feveral others which I have omitted for fear of being too tedious, have all done their Parts extremely well on this Subject, being very fenfible how useful and advantageous a good Instrument is in the Hand of a skilful Operator; which should oblige every Practitioner in Chirurgery, to furnish himself with all sorts of proper well-made Instruments, which will not only conduce to his own Reputation, but to the Eale and Benefit of the Patient, in preventing unnecessary Pains and Tortures in any Operation.

usq; ad pagi-nam 38:

Actual Caute-

and Excellen-

But where Instruments will not answer the Intentions, as it often happens in malignant and contumacious Distempers, there Actual Cauteries, burning with a hot Iron or Corrofives must take place; among which Mora, its Use burning with Moxa must be reckoned as one of the best Applications in this kind, because it not only makes but one Spot or Blister, and draws away what is malignant, superfluous, and keeps the Part from healing, but confumes the latent peccant Humour with greater Ease and Benefit to the Patient, than any other Adual or Potential Cautery. How these Cauteries are to be made and applied, shall be shewed in the following Chapter, as also in what Form they must be used, agreeably to the Accident or Hurt, and the Chirurgeon's Opinion in applying them, whether Oval, Round, Triangular, Quadrangular, Smooth, Branchy, Great. Small, Long, Short, with or without a Pipe, which are commonly pra-ctifed where there are rotten Bones, corroded Parts, Excrescencies, Fistula's, malignant Ulcers, wounded Veins or Arteries, with defign to ftop their violent Bleedings, and generally have their Effect: In which Cases, especially that famous Frenchman Monsieur Guillemeau in his Chirurgia, has treated incomparably.

History of a famous Cure by an Astual Cautery.

A Lawyer's Daughter at Magdeburg came to me while I refided at Halbarstadt, in December 1679. to ask my Advice about a malignant and corroding Ulcer in her Face; and I being inform'd that the had already been under the Hands of feveral famous Chirurgeons, especially Mr. Kauffman in Custrin, where she had been for some Years, but without receiving any Benefit: I immediately proposed the Application of an Actual Cautery fitted to the Ulcer, but she, out of great Fear and Disfidence, utterly rejected it, and went from me to Brumswick, where she continued above half a year under the Hands of able Chirurgeons, but without any Effect. Whither the went afterwards, I know not; because at that time the Plague from Eisleben and Magdeburg coming to Halberstat, where I continued about two Years at the Command of his Electoral Highness of Brandenburg, as Chief Chirurgeon for the Cure of the Pestilence, I had no time to undertake any other Cure. But after the Plague ceased, in January 1682. she came to me again, and in a miserable Condition; for the Ulcer had not only taken hold of the Part between the Mouth and the Nose, but also the left side of the Nose and the upper

Lip was wholly infected, ulcerated, and become quite callous and knotty, in a manner totally cancerous, and full of filthy Carrion like Matter. I once more proposed an Astual Cautery, and shewing her the Danger in delaying it, she at length, with much difficulty, was perswaded to have it done one Morning, which was repeated three times together with a bot Iron, with all the Care and Circumspection imaginable. For this purpose I provided such a convenient Cautery as the Part would admit of, and between the Lips and the Gums I put a thin Plate of Silver as high as I could, to preserve the Parts that were near it, that the cauterizing might

be performed more perfectly.

By this Process I obtained by Degrees a new Foundation, the Malignancy was confumed by the Cautery, the callous and knotty Places were dispersed, and at length with great Care and Diligence, and the Use of proper Medicines she was persectly cured in a few Weeks time, and that (contrary to my own Thoughts) without any Flux or Salivation. Of what those Medicines were compounded, you will find at large in the following 8, 9, 19, 20, and 31 Chapters. This History being placed here for no other Purpose, but to shew the great Benefit of Cauteries in Chirurgery, when well timed and carefully applied; for nothing is more certain than what upon very good Grounds was long since delivered by Hypocrates, That where Medicines and Incisions were inessectual, Recourse ought to be had to Cauteries.

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in railing up a depreifed Shull, when a finall place has been midd ready

THE excellently Learned Dr. Solingen, Practitioner in Physick and Chirurgery at the Hague, whom our Author so often quotes, and with great Reason commends, having newly invented and described several incomparable Instruments, absolutely necessary in Chirurgery, which are not to be found in any other Author, but only in his Book, entituled, Manual Operations in Chirurgery; and that Book being writ in Dutch, and consequently not understood in England; upon the Advice of that Learned Anatomist Mr. Cowper, I have inserted them, and are as follows.

Tabula Prima. only ad son bloods and is had

Fig. 1. describes a Cutting Pipe very useful in making a Fontanel on the Sutura Coronalis, through the first Table of the Skull. The Instrument is made of Case-hardened Steel, turned out of one Piece, big enough in the lower part for a large white Pea to be lodged in it, and about the breadth of three Fingers long, and sharp at the bottom. When you design to set an Issue upon the Head, you must set the Instrument sast upon the Sutura Coronalis, and holding it with your Lest Hand, strike upon it with your Right with such a force, that it may enter into the Cranium: Which being done, take the sharp-pointed Instrument described Fig. 2. and with it thrust forcibly through the Pipe into the Skull, then turn it round, Pipe and all, till you have cut through the Pericranium; then take it out, which was put in for no other End, but that the Pericranium might be cut through, without moving it to and fro, and not be cut into pieces

more than is necessary; but the Cutting Pipe you must push round from one side to the other, till the Flesh and Perieranium is sufficiently loosened. Then take out the Pipe and the sleshy Substance with it, with the help of that Spoon-like Incision-knife described Fig. 3. This being done, put the Pipe in again, and the Iron Instrument described Fig. 4. being first sitted to the Pipe, and made Red hot, with a small Hole in the top, and something longer than the Pipe, that the Screw-pin may go through the Hole (and be fastened to the Handle which is made of Brass, and described Fig. 5.) which must be thrust into the Pipe upon the Cranium, and held there till it has burnt through the first Table, and then your Work is done; only the Wound must be dress'd with Inguentum Populeum, with a Pea put into it, and managed like other Issues.

Fig. 6. is the Description of a Cucurbitulum, design'd to raise a Skull up again, that by some ill Accident had been depress'd. It ought to be made of Pewter, and proportion'd to the Dimensions of the Wound. It has a great Belly, and about the Neck is sewed a piece of Leather, from which is drawn through the two Ears another Leather which stands upward, to take hold of, and raise the Cucurbitulum, after it has been placed upon the depressed Skull with a considerable Flame, which by this means may be pulled up again, as Dr. Solingen testifies by his own Experience.

In Fig. 7. is described a Myrtiform Incision-knife, one End whereof is to cut through the fleshy Part of the Head, and the other to separate it from

the Pericranium.

Fig. the 8th is the Invention of an Elevatorium Biploideum, very useful in raising up a depressed Skull, when a small place has been made ready for it by the Exfoliative Trepan: Then this Instrument is put upon the Head over the depressed Skull, but the Feet of the Levatory must be placed at a little distance from the depressed Part, which may be done by screwing the Feet as wide from one another as the Place requires; then with the Perforator of this Levatory, gradually pierce the Center of the depressed Skull, and when it's entred far enough in, lift it up, and so you may restore the Bone to its natural Position.

In Fig. 9. is described a Levatory resembling the shape of a Foot, which is to be screwed titely to the Elevatorium Biploideum, and put into the Orifice of the Trepanned Cranium, to raise the depressed Skull into its place again.

Fig. 10. shews an Elevatorium Trepidale, which pierces into the middle of the depressed Skull, and so raises it up again. It has three Perforators, that if one should not be strong enough, the other may be used.

In Fig. 11. is a Thwart-tooth'd Radula on each fide, called a Levigator,

which may be made bigger or leffer as occasion requires.

Fig. the 12th is the Contrivance of an Exfoliative Trepan, which is to be

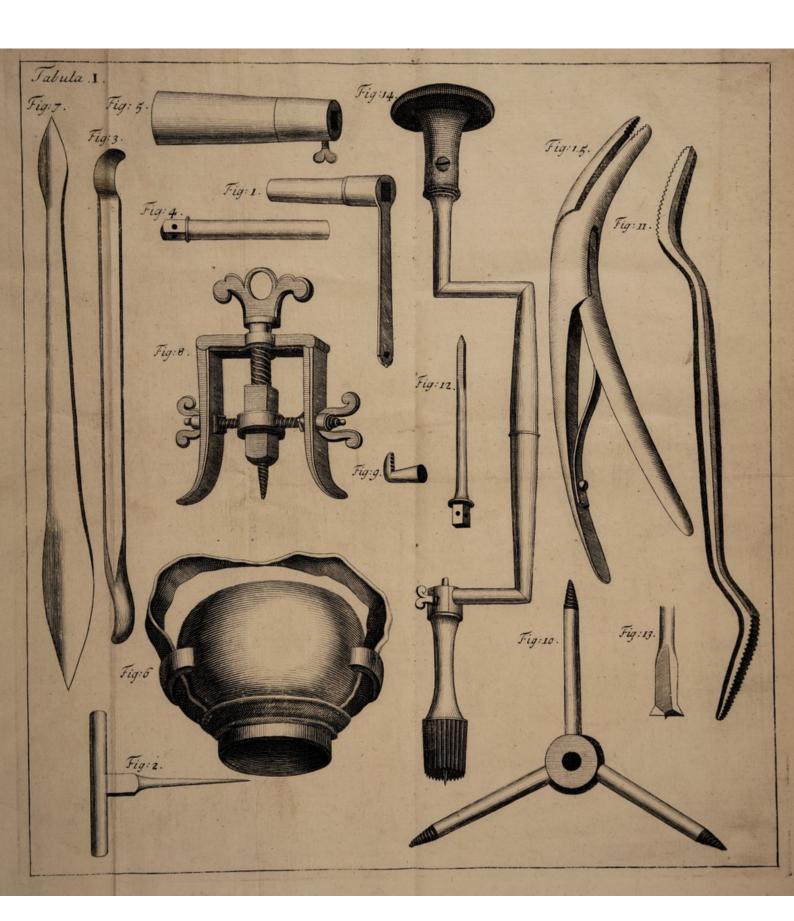
screwed fast into the Handle of the Trepan.

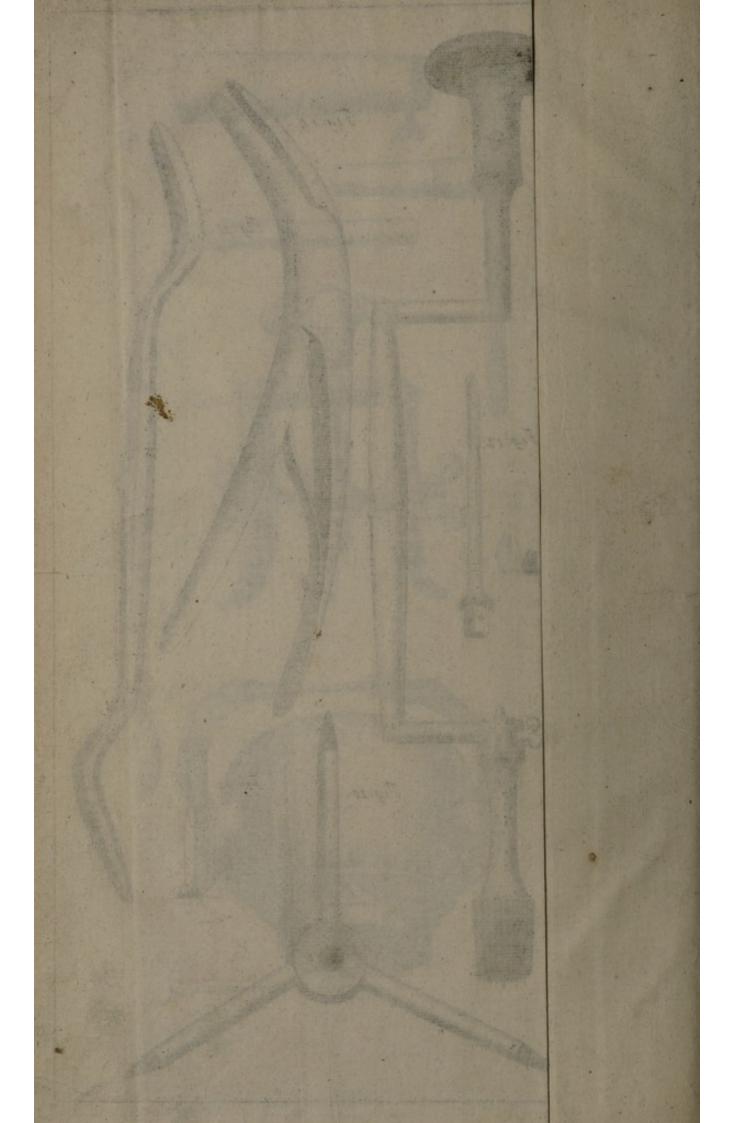
Fig. 13. is another Exfoliative or Desquamatory Trepan, like the former, and both very necessary in Scaling the Skull when it has been fractur'd and shivered. It is made of Case-hardened Steel, having a small Point in the middle to keep it in one place, and on the sides two small hallow cutting Leaves or Processes, by which One may go very near and close to the Skull, and take away more at one Turning, than with any other Instrument at several times.

Fig. 14. is a Trepan compleatly fitted up, as it ought to be.

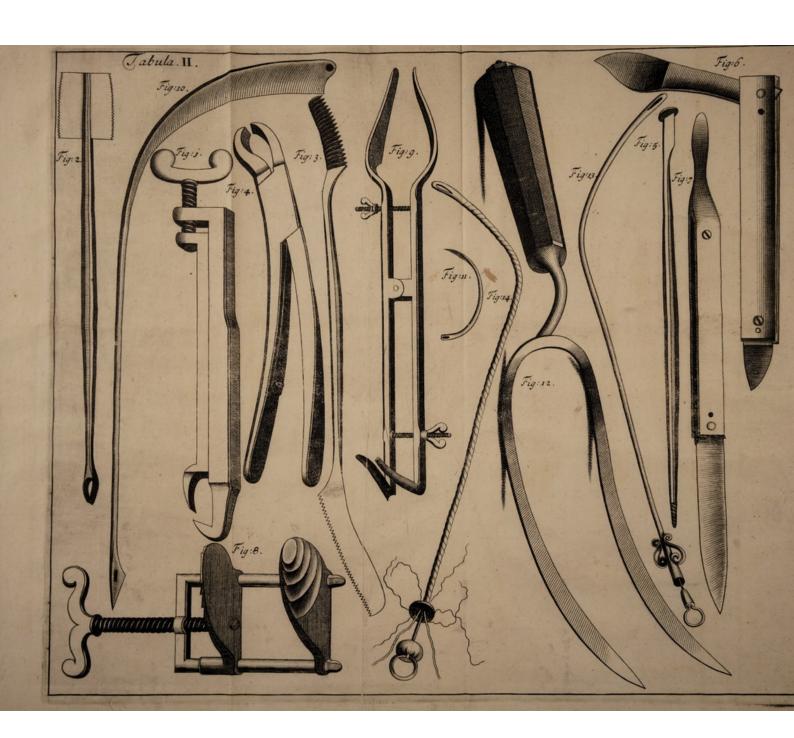
Fig. 15. is a Description of a Forceps to draw out the broken and shattered

Pieces of the Skull, and is very useful in several other Cases.









Tabula Secunda.

In Fig. 1. is described a Cutting Mullet, the lowermost turned Bill whereof, is to be put under the Cranium, and the other End being very sharp, is screwed downwards, to cut off such a piece of the Skull as is necessary to be separated from the rest.

Fig. 2. is a small Saw, on each End whereof one is stronger than the

other: They make a great deal of room with very little Pains.

Fig. 3. is another small Saw, very useful to faw off Pieces of Bones.

Fig. 4. is a Cutting Forceps necessary to punch off small Pieces or Points of Bones, it's about a Span long, made of good Steel, and very strong and sharp, with a Spring, that it may always stand open, and cut with greater Force.

Fig. 5. describes a Cutting Lentile, of a new Contrivance. One End is to cut off small Splinters of the Skull, caused by Trepanning; and the other to screw into a Piece of the Skull that is loosened by the Trepan, that it may be the more gently pulled out; but you must observe to screw it into the same Hole made by the Pin of the Trepan.

Fig. 6. is an Incision, with each End whereof I use to perform most of

my Operations.

Fig. 7. shews another Incision-knife, with a Separatorium at the End of

it, being very useful in cutting out Tumours, &c.

Fig. 8. represents a Speculum Oris, or Mouth-screw, of the newest and best Invention, consisting of two Leaves or Plates, the uppermost where-of is fastened on each side, and cannot be moved; and the other Leaf or Plate may be moved upward or downward by the Screw which is fastened in the middle of it. The whole is made of Steel, and every Plate is filed into four Half-moon-fashion'd Catches, to keep it the better between the Teeth; and as the Mouth opens wider, to push it further in.

Fig. 9. describes a Dilatatorium for the Nose and Ears.

Fig. 10. is a Syringotomus, an Instrument very useful in Fistula's, where other cutting Instruments can have no effect. It's made of unhardened Steel, round and easie to bend; not thick, indifferent long, with a hallow kind of a Cut very sharp, and has an Eye or Hole to put a Probe into, that it may be the better governed by the Fingers. There is also a Hole in the Point of it, through which must be drawn a small Hair-string, which being tied both Ends together, serves to draw out the Syringotomus, that it may not fall upon the Sides. The Point is four-square, and about the breadth of half a Straw, on which is sastened a small Pill made of hard boiled Turpentine Pitch, which represents the Head of a Probe, and may be easily push'd through, so that what ought to be cut asunder, is by this means speedily performed.

Fig. 11. represents a crooked Needle well polished, with a four-square Point, which may be employed in several Cases, and made great or small,

as occasion requires.

Fig. 12. shews us a Fork very commodious to hold up Womens Breasts, Cancers and large Tumours when they are to be cut off, and is used instead of great Needles, and a quicker way behalf. The Tines are flat, sharp-pointed, strong and steady; the Neck before the Handle is crooked, to give way to the other Hand, that it may govern the Knife without being hindered, or hurting the Operator's Knuckles.

Fig. 13. is a Catheter frequently, used in eminent Services.

Fig. 14. deciphers an excellent Invention of a flexible Catheter, so pliable, that it will bend agreeably to the Passage to which it is applied; very

ble, that it will bend agreeably to the Passage to which it is applied; very convenient to cause the Evacuation of *Trine* out of the Bladder, in such Cases, where it's continuing there might be very injurious to the Body. This Instrument may be kept in the Passage of the *Bladder*, without prejudice, or any considerable Molestation to the Patient. It's made of thin, start Silver-Wire artificially soldered together, and may be tied fast with a String going round the Body to prevent its falling out.

Tabula Tertia.

Fig. 1. is a Dismembring-knife, of a very good fize for the Amputation of any Member; it ought to have a good thick Back, and to be very sharp.

Fig. 2. is a Saw, the Bow whereof is something broad in the middle, but broader and stronger on the Sides downward, to give it the greater force and an equal Balance in sawing. On each Side below, it has a sour-square, Hole for the Receivers to pass through, which are also four-square and sitted to the Holes in the Bow, having each of them a Screw at the End, which are turned with a particular Key, Fig. 3. by which the Blade of the Saw is extended or loosened at pleasure. The Receivers are slat before, and something broad towards the Bow, having a Joint where the Blade of the Saw is sastened at both Ends, through which are put small Screwpins to sastened at both Ends, through which are put small Screwpins to sastened at both Ends, through which are put small Screwpins to sastened at both Ends, through which are put small Screwpins to sastened at both Ends, through which are put small Screwpins to sastened, equal and standing even, that the Saw may cut the some standard stake but little of the Bone away. The Key has at one end a Process, which screws the Screw-pins on and off.

Fig. 4. is a Chiffel with a Leaden-handle; its Use is to cut off Fingers,

Toes, Gc.

Fig. 5. is a Cutting Mallet to difmember a Mortified Part.

Fig. 6. shews how the Back of the Chiffel must be grinded, that one side

may be round, and the other quite flat.

Fig. 7. is a Pair of Sciffers like those that Goldsmiths use, which are ground hollow, and are very serviceable in cutting Flesh, Sinews, &c. and performs it better than any other Scissers whatsoever.

Fig. 8. shews a Pair of Pincers to extract Bullets that are lodged in the

Body.

CHAP. III.

Remarks upon very dangerous Wounds in the Head, in which happened something extraordinary, with Observations upon the whole.

Dangerous Wounds in the Head,

In this Chirurgia Curiosa I have said nothing of common Wounds in the Head, because I have already treated sufficiently of them in my Chirurgical Lawrel Crown, in my True Camp Chirurgeon, and in my Fifty Cures of Wounds made by Gun-shot; yet because for Orders-sake, it's necessary





fary that every Book of Chirurgery should begin with the principal Part; I will accommodate my Reader in this fecond Chapter with some curious Historical Observations of dangerous Wounds in the Head : But before I enter upon that Subject, it will be very convenient to lay down some Rules, how a Chirurgeon ought to demean himself when a Patient fo wounded is committed to his Care. His first Intention, after having Advice to the removed the Filth, taken away the Hair, and all other Hinderances to Chirurgeons his Sight and Handling, is, That he accurately and diligently probe and fearch the Wounds or Hurts, upwards, downwards, before, behind, and on every Side, especially in Wounds on the Temples, because the difference of the place, makes a great Alteration in the Methods of proceeding to a Cure; for Wounds in the Temples, or the Hinder part of the Head towards the Neck, tho' they feem at first to be but slight, and of no great consequence, oftentimes prove very dangerous, being subjected to very ill Accidents, which insensibly terminate in Death, for want of knowing the Bottom, and tracing the Wound in every Branch of it; for in those Parts are many of the principal Vessels and Muscles, Veins, Arteries and Nerves, especially the Musculi Temporales and Arteria Carotides, which alone being Hurt, will require the greatest Care and Skill

of the Chirurgeon to heal them.

If the Wounds pierce deeper, and cause a Fracture in the Cranium or Skull, and, as sometimes it happens, hurts the Dura Mater, Pia Mater, and the Brain it felf, then all imaginable Prudence and Caution must be exercised; for the Patients commonly die in such Cases, yet the Chirurgeon must by no means omit the doing his Duty, and essay by all rational Methods the Recovery of his Patient; for we often find by Experience, that fuch Patients as have been given up for dead Men, under fuch ill-boding Circumstances, have sometimes, and more especially if of a good Constitution, been perfectly recovered, as will be shewed by Historical Examples of my own Experience, and from others of unquestionable Authority, at the Conclusion of this Chapter. For this Reason I would have none attempt a Cure Rashly or Timorously, but do all that is posible to be done by the Rules of Art, even in the most desperate Cases imaginable; because there scarce ever was a Case in the World so general, but admitted of particular Exceptions. I will therefore particularly confider all the above-mentioned Wounds and Hurts, that the Ingenious Reader may with more Ease enter into my Opinion, and understand the Principles I ground upon, in proposing a New Method of Cure, which being once truly known, will be better approved; and the oftner and longer it is practifed, will be more effectually recommended to all Men, tho' it differ as much from the old Way as Day does from Night.

Now the first fort of Wounds in the Head, relate only to the external Parts, which sometimes cause a Depression, and sometimes a Fissure or Cleft in the Skull, which in one place is much more dangerous than in another, by reason of the Inequality of the Cranium, which in some places is musculous, as in the Temples, and the hinder part of the Neck, where the

Muscles for the moving of the Head are placed.

If the Cranium by a great Fall or Blow is so broken or split, that Shivers Wounds in the are separated from the Skull, the Case is very dangerous; for those Shivers Skull, and or Minute Pieces of the Skull, pressing the Membrane that lies under the Cranium, if they be not foon taken out, will certainly cause very unhappy Accidents, and at length Death it felf; of which we shall say more anon.

Trepanning.

If the Wounds go further and deeper, and the Meninges or Membranes under the Skull, tho' but in the uppermost part, as the Dura Mater, are wounded, there is so much Danger, that such Accidents are generally esteemed Deadly, unless some extraordinary Application prevents it.

But if befides the Meninges, the Brain it felf is hurt or wounded in its Substance, or but shaken from its proper Scituation, it is yet more dangerous and deadly, as may eafily be perceived from the difmal Accidents that

follow, to which we ought to have special Regard.

Sometimes it happens that an External Hurt on the Cranium feems at first of small consequence, because the Fracture of the Skull is not found out by the Probe; therefore if any ill Symptoms appear, the Fiffure must be fearched for by the help of a Scraper; and if the Symptoms are fo violent, that they will not allow time for a leifurely Process, the Trepan must immediately be used; for those dangerous Prognosticks are a manifest Declaration, that either the Meninges or the Brain it felf does suffer: or elfe, that some Blood or Humour, which soon putrifies, is settled under the

Skull upon the Meninges.

If a Fracture happens on the outward Part of the first Table of the Cranium, and is large enough to be feen, and does not pierce quite through, or but a little, and has but a small Fissure at the bottom, there is no great Danger; but if it goes through, tho' it be very small, we dare not always trust to it, tho' in two or three days time no ill Symptoms appear in the Patient; because they often follow Unexpected; and when this happens, it's absolutely necessary to make the Fracture larger, or use the Trepan; for without doubt there is some Blood, Matter or Corruption under the Skull, or the Dura Mater is injured, which may be remedied by Trepanning: But if any Shivers of the Skull press upon, or prick the Dura Mater, there is certainly very great Danger, and the Chirurgeon ought to try all manner of Ways to get them out, as well to facilitate the Cure, as to prevent ill Confequences.

Depression of the Skull.

When a Fracture is also accompanied with a great Depression of the Skull, which not only presses upon the Meninges, but also obstructs their Motion and Operation, the Chirurgeon must then endeavour to bring the Skull up again into its proper place, by the help of an Elevator, or other Instrument contrived for that purpose, which being artificially put under the Skull, may raise it up again; but if these Methods prove fruitless, then it's requifite to Trepan in a convenient Place, and apply the Elevator; for a Chirurgeon must leave no means unessayed, in which there is any pro-

bability of helping his Patient.

A Counter-Fiffure.

There is another kind of Fracture of the Cranium which remains to be confidered, and that is a Contra-fissura, or Counter-fissure, where it sometimes happens in Winter, and to young Persons, that the Fracture is not in the same place where they received the Blow, or on which they fell, but opposite to it, or a good Distance from it, per resonitum vel repullum, which may be perceived either by the violent and continued Pain opposite to the Place in which the Patient received the Hurt, or by a Swelling that the first day appears in the place where the Fracture is, which ought to be opened by Incifion.

Thus much I thought fit to fay upon dangerous Fractures of the Skull. which if the Chirurgeon keeps in his Mind, and observes in his Practice, no Patient will be neglected, nor any Fault be committed in the Cure. What remains, especially concerning the Advantages which arise from a

New Sort of Medicines, in opposition to the Old ones, shall be shewn in the two following Historical Collections which I have purposely borrowed from other Authors, because they contain almost every thing agreeable to my Principles, and then will follow my own Observations, and the Medicines I used, for the intire Satisfaction of the Reader.

Monsieur Blegni, Chirurgeon in Ordinary to the French King in Paris, A History of has in his Excellent Observations * a very rare Example of a dangerous a Fracture in Fracture in the Head, which yet was cured by him; and the Famous the Skull. Mr. Regnier has left it for the Improvement of Posterity, worded after *Part 3. pag. this manner. This Fracture of the Head was attended by a Control and 146. this manner. This Fracture of the Head was attended by a Contufed and Lacerated Periostium, the Skull was broken through and through, the Dura and Pia Mater or Meninges were divided afunder, and the very Substance of the Brain was hurt, which was a very dangerous Case indeed: The Patient was deprived of his Speech and Understanding, seized with exceffive Vomiting and Bleeding at the Nofe; a great Expulsion of Blood iffued from a Branch of the Arteria Carotides, and consequently was very dangerous, because the Mouth of the Artery was quite hid under the Cranium, fo that neither Medicines nor Instruments could reach it. Now tho' the excessive and violent Bleeding of the Arteries is no wonder in fuch a Case, yet here, contrary to the Opinion of the Ancients, it is very remarkable, that no Convulfions or Exterfions accompanied the other Symptoms; which gives us reason to conclude, according to the new Method, that the Dara Mater, the Pia Mater, and the Brain it felf, may be wounded and divided, and yet no convulfive Motions must necessarily follow. But how the Blood could be stanched which came from the Artery, when there was no way to come at it, is fomething wonderful; yet this is resolved in the Course of the History, where our Author makes it appear at large, bow Nothing comparatively, is able to effect Any thing. The Venerable Mr. Regnier, who could as well difcern the Patient's Danger as another, eafily concluded with the rest, that the Wound was mortal, and yet would not give up all for loft, because he knew, that Nature often effected wonderful things in curing Diseases; and why may not Art contrive and find out Means to restore what Nature cannot perform without its Affiftance, Since we have abundance of Examples to confirm that Principle, and therefore ought not to leave any Patient as Incurable, tho' there be no hopes at all of a Cure, but try every thing that has any Appearance of Reason in it : Nay, Hypocrates saies, That we should rather try dubious and uncertain Medicines and Methods, than leave the Patient in Despair. Doubtless Mr. Regnier was of this Opinion, and therefore took a new Piece of Sponge or Fungus, and having fitted it to the Wound, so that the Blood and Matter might have liberty to work out of it, he put the Spange into the Wound, which only means perfectly flopt the bleeding; and taking it out twenty four Hours after, faw the Wound in a good Condition to be healed, which by degrees, and in a few Weeks, was so perfectly cured, to the Admiration of all Men, that the Patient lived many Years after, without any Sickness or Distemper, that could rationally be attributed to the Wound as the Cause of it. n

The fecond Historical Observation is taken out of Dr. Blanckard's Hol- Another Hitand's Annual Register * which was communicated to him by Monsieur story. Tribouleau, a famous Chirurgeon in Paris, in these Words: The Valet de fer. 27, page Chambre of the Marquiss de la Poplinière, was shot with a Musket Bul- 56, & sique. let, which wounded him to fuch a degree, that the Os Occipitis; or Bone

of the hinder Part of the Head on the upper Part of the right Side, was fo broken and bruifed, that the third day after being Trepanned, it might have been taken out. Now one would imagine, that where there was two fuch Orifices to give the Wound vent, the ill Accidents would have abated, and the Blood which lay under the Skull would have iffued out; but on the contrary, no such Benefit happened to this Patient; the same ill Symptoms continued till the 35th Day, and then were accompanied by a Fever and Loathing all manner of Sustenance. The Dura Mater also fwell'd very high, and caus'd, through length of time, a spongy Flesh to grow upon it; whereupon the Chirurgeon Mr. Tribouleau concluded, and in truth should have done it much sooner, that there was some Putrified Matter and corrupted Blood under and betwixt the Meninges; therefore four Days after, which made 39 Days after he was wounded, the Symproms increased more violently, as might easily have been conjectured. Whereupon he opened the fwell'd Dura Mater length-wife, and made an Orifice proportionable, out of which by degrees iffued a great Quantity of Green, Black, and Stinking Matter; and then the dangerous Symptoms abated, the Dura Mater ceased to swell, came to it self-again, and the Patient was perfectly recovered in a little time.

Observations on both the Histories.

Much more might be observed from this History, and Dr. Blanckard in another place has writ very tharply against the Chirurgeons delaying, or not discerning the Cause of the ill Symptoms sooner. However, I made choice of this History for two special Reasons; first, to convince the Reader, that a great Quantity of Matter, Blood and Sanies may lie and gather fo long a time between the Meninges, without corrupting them of the Brain. And fecondly, That contrary to the express Prohibition of the Ancients, grounded upon a false Opinion; the Dura Mater, if necessity require it, may be Opened and cut through without Danger; and that after fo long a time as 39 Days after the Patient was wounded. Which Opinion is confirmed by every Day's Practice, and the Experience of Dr. *Chirurgia 1.3. Blanckard, * Dr. Munnick and Dr. Jungken, by whom this Subject is handled

*L.3. c.15. more at large.

p. 216. ufque A History of another rare

In the Month of March 1689, about Eleven a Clock at Night, Christop. 422. In the Month of March 1009, about Eleven a Soldier in the Red * Sect. 2. oper pher N. the Son of a Servant of our Hospital, now a Soldier in the Red Company, about 24 Years of Age, was cut with a sharp Scimeter by his Master (who, in respect of his great Family, I forbear to mention) to fuch a degree on the right fide of the Head, over the Temporal Mufele, near the Sutura Coronalis, oblique towards the Ear, that it not only cut through the Skall, but also cut the Dura Mater asunder about a Thumb's breadth. About Twelve a Clock this Man was brought to me without Sense, and Speechless, with a continual Vomiting, Bleeding at the Nose, full of Convulfive Motions, and also very great bleeding from an Ascending Branch of the Temporal Artery, which really was a miferable Condition. I prefently caused the Hair to be taken out of the way, and as soon as I had informed my felf of the Wound and its Danger, I applied my felf to flanch the Blood, because he had lost a vast Quantity of it, which I performed in this manner: With a crooked Needle and Silk I fewed up the Artery with three or four Stitches, and knit it fast together, which immediately stopped the Bleeding. On the violent Pulfive Meninges I put the following Water, in which was dipt a fine and thin piece of a Silk Rag, and squeezed out again; which being done every four Hours, the bnuoW ch wounded him to fach a degree, that the Os Occipitis; or Bone

Blancestaring

Wound by degrees became fenfibly mended. The Water I made use of was thus compounded:

Re Mucilag, sem. Cydonior, & Rad. Altheæ cum Aqua Plantagin. 3ii. Pulv. Sarcocol. 3i. Sacchar. Saturn. 3i. Myrrh. Tutiæ ppt. ana gr. iiij. misce serv. ad usum dictum.

Off the top of this small Rag I always laid a little Lint very loosely, that it might not hinder the Sanies or Matter from coming out; and over the Wound I laid the following Plaister twice a day, and then a small Bag filled with Herbs and Flowers, made warm in Wine, and pressed out again, was laid on the Plaister, which was made as followeth:

Re Emplastr. de Beton. Zwelferi th ss. Emplaistr. Diachyl. simpl. Stiet. Paracelst and Siiij. Manus Dei Zij. Melilot. Zs. Ol. Roris mar. major an. Lavendul. and Zi. m. s. Emplastrum.

In the first ten Days every thing seemed very forward towards a safe and sudden Cure; the Pulsation of the Dura Mater was very regular, and the Wound there quite closed; all the ill Symptoms, except the Head-ach, vanished, and yet on the Eleventh Day the violent Pulsation return'd, and the Patient again became Senseless and Speechless; upon which I concluded there was some Matter gathering under the Membrane, which caused this Relapse. Whereupon I made a new Incision with good Success, for it let out abundance of Corruption, and in less than an hour's time all the ill Symptoms vanished again, and the Patient in Eight Weeks time was restored to his former Health. To consolidate the Dura Mater, I used nothing but the above-mentioned Water. This Patient is now alive, full of Health, and performs his Service very well.

and begenerated of which for Mr. Safetall's curious Fracks! you and that the Clifflight one the Patient who defines it may be pleafed, and that the Cliffrurgeon in purchasing this Warit-P. Ay H. Dan Resion to complain for

Arteriotomia, the opening the Temporal, or any other Artery, and what is to be observed in the Operation, in order to perform it artificially and safely.

A Mong all the Writers that so highly commend the Arteriotomia, Opening an that they propose it almost in every Distemper; Marcus Aurelius Artery. Severinus and Gullemeau are the chiefest, and especially the first, who without Distinction advises it to be done almost in all Parts of the Body, and in all Cases whatsoever; but I must take leave to distent from that Opinion, because I cannot think it so universally beneficial as is pretended. Besides, there is so much Care and Caution to be used in performing this Operation, that if there be the least Miscarriage in it, especially in the Temporal Artery, it does more harm than good. This Artery is generally opened for the Cure of violent Pains in the Head, and I have often observed, tho it may abate that Pain for a time, yet it commonly returns again.

The

The old way dangerous.

The Ancients ignorantly used to curthe Artery quite through the middle, and for that end tied a Garter or Girdle above the Forehead round the Head, always keeping the left. Thumb upon the Artery, that they might more eafily cut it afunder with the right Hand; nor was this a very indifcreet Method, if they had done it with the first Lancing only: But that intolerable way which is practifed by some, in tying a Ligature about the Neck and under the Arms, fignifies nothing, but to trouble and molest the Patient, and contributes nothing to the coming our of the Blood, as Experience sufficiently demonstrates; for which Reason it's better to follow the new Method, which is more convenient and fafer. Dr. Blanckard, Dr. Blegni and Dr. Burdeleau reject the old Way for the Reafons I have already given, and call it a Rash, Inconsiderate and Hazardous Operation; for by cutting the Artery afunder, the Musculous Tempo-

The new way. better.

Now tho' the Arteriotomia, according to the new Method, is not fo dangerous as the other, as you may fee in my Observation and Experiment at the end of this Chapter. Now tho' I am not very fond of using it, I know this Practice is as common in Egypt, as breathing a Vein is in this part of Europe; yet still I am of the same Opinion, and cannot advise it to be done without Distinction; because Experience teaches, that it seldom answers the End for which it is employed. What if Fr. Wartzen, Pareus, Tulpius, Job Van Meckeren, Roombausen, Prosper Alpinus, and many others, have, as they imagine, often found Benefit by it; and that it is rational enough in it felf. yet you cannot always rely upon it. Besides, the Old and Erroneous Opimons in Physick and Chirurgery are now exploded, and the Principles of those Sciences are built more and more upon surer Foundations; nay, in the very thing we are now discoursing of, there are great Alterations; for Phlebotomy, and chiefly Arteriotomy, are almost quite laid aside, except in a very few Cases where it is yet allowable; for in the most violent Head-aches the Moxa applied in the same place, is much more prevalent and beneficial; of which fee Mr. Buschoff's curious Tracts.

Vertues of Mixa.

> But that the Patient who defires it may be pleafed, and that the Chirurgeon in purchasing this Treatise, may have no Reason to complain for want of Instructions in all kind of Operations; as soon as I have touched a little upon the Greek and East. India Earth called Tangi, which being thought an excellent Medicine for the Head, is fit to be inferted here. I will give Directions, largely describe the Arteriotomy, and give you the Opinions of some Learned Physicians and Chirurgeons concerning it.

This yet almost unknown Earth, called Tangi, was first brought to and East India Breslaw by a Grecian in the Year 1694. and presented to our Presi-Earth Tangi. dent, a very ingenious Nobleman of Haunold, who did me the Honour to present me with a piece of it for a Trial. It is of a high Tellow Colour, almost resembling an Orange, of a piercing strong Aromatical Scent, and is used in violent Head-aches, and in great Defluxions of Rheum into the Head, on this manner the Head, on this manner.

Scrape a little Quantity of this Earth into a Glass, then pour a Spoonful of Fountain or diffilled Water upon it, and after it is well mix'd, rub your Temples and Forehead with it about the breadth of a Crown-piece twice a day, and it will take away the Pain, and give Ease immediately: Which being effected a great Curiofity, I would not conceal it from the Reader.

Blanckardus in his Artificial Chirurgery-Chamber *, tho' he feems to have *L. 2. c. 2. no great Opinion of the Arteriotomia, yet he faies, that the Arteries were P. 45. opened in feveral other Parts of the Body, befides the Temples; as in the Forehead, in the binder part of the Head, behind the Ears, and in the Hands and Feet.

Jessenius in his Chirurgia *, adviseth in great Pains of the Head, to open * C. 2. p. 48. that Arterial Branch which lies between the Thumb and the Forefinger; but I think he will have much ado to find it, without injuring the ad-

joining Parts.

Selingen, in his Chirurgia *, faies, That in Head-aches and Rheumatick * Part 4. c.30. Pains, we should open the Artery in the great Toe, and seems to be much P. 394. in the right; for that Branch lies pretty high, is large, and there can be no Danger in doing it, because it may be well guarded and secured with Bandages. A Famous Pater Præmonstratensis Ordinis, by Name Brandel. brought this into Use among us about three Years since, and with great Benefit in the fore-mentioned Pains, which I often performed in his presence upon several Persons.

Fabricius ab Aqua pendente in his Chirurgia *, adds over and above to *Par. 2. c. 3. the former places, the opening of the Artery on the Nofe, to prevent ill P. 19. Humours from falling into the Head. He that will believe it, may; perhaps he means the point of the Nose, which formerly used to be opened in the

Yellow Jaundice.

The Famous Taliacotius in his Book de Curtorum Chirurgia *, faies, We *L. 1. c. 20. should open the extreme Arterial Branch behind the Ears, as a proper p. 211. Remedy for all Diftempers in the Eyes, a Phrenzy or Perturbation of the Animal Faculties, Giddiness, Deafness, &c. And to be certain in the Method of opening it, he has caused a Draught to be engraved, and put it into his Book.

Junckius in his Chirurgical Manual *, does not much esteem this Ope- * Sec. 2. oper. ration, as may be feen in the beginning of that Chapter; yet faies it may & fequ. be done in the Temples, in the Forehead, and behind the Ears, because the Arteries may be eafily come at, and Bandages better fastned. But the new, fafe and right way of performing that Operation is after this man-

ner: Place the Patient with that fide towards the Light, where you intend The best and to open the Artery: First shave off the Hair if it be in your way; then lafest way of tie a Ligature or Band twice round the Head above and below the Artery, Artery. and about the Neck, as streight as the Patient can suffer it. He may hold the undermost Ligature with his own Hand, and pull it as hard as he can endure it; then let the Patient shut his Mouth, and blow as strongly as he can, and you will foon perceive the Place where the Artery must be opened, which by feeling and holding your Thumb upon it, will cause the Artery to rife: Then mark the place with a little lok, and let your Servant, standing behind the Patient, hold his Head firm to his Breast : Then put your left Thumb about a Finger's breadth below the place which was marked; pull the Skin hard a little downwards, and having a Lancer in your Right Hand, which is indifferent broad, very sharp, but not too pointy, push it into the Mark somewhat flanting through the Skin into the Artery; you may quickly perceive when it's deep enough, by the Blood flying upon you; but if it does not gush out, you must push the Lincet deeper in, and repeat the Incision till it does: Take away as much Blood as you think convenient, but don't remove the Ligatures till you:

you bind it up. This being done, take the White of an Egg well mixed with Allum, in which wet your Left Thumb three or four times, and with it press the Hole and Lips of the Incision together, and then put the Fungus Pulverutentus or Fuz-ball upon it, about the bigness of a Nutmeg, strewing my Blood-stopping Powder over it, and upon that lay a Plaister of Mastick spread very thick upon Leather, as large as you think convenient: Which must be done with all imaginable Neatness and Celerity. On this Plaister first put a small round Linen Bolster, and over that two or three more, one still broader than the other, first just wetted in Vinegar in which Tragacantha had been dissolved; for these will not only fill up the hollow places of the Temple, but keep the Blood-Stopping Powder closer upon the Artery, which will forward its healing, and prevent its fwelling, and breaking out again, the only thing to be feared in this Operation. This being done, take an indifferent long Roller about two Inches broad, which wind round the Front and Head; after that turn your Roller over on the other fide by the end, which end give your Man to hold, and pull the long end under the Chin near the Neck, then over the Head, and turn it always over that end which your Man holds, when you come to it, and so continue winding it about, till the Place is well covered, because this binding contributes much to its healing.

The fecond Dreffing. This Bandage ought to continue three or four Days without medling with it, and you should exhort the Patient to keep very still and quiet, and eat nothing but what is of easie Digestion. After three or four Days undo your Ligature, wet the Bolster again in the Mixture above-mentioned, apply it as before, and tie the Roller round it, but not so hard as at first. Then let it continue so bound up four days more, and by that time you will have no Cause to fear its breaking out or bleeding any more; for you may see it healed up. This is the way I have always practised, and with very good Success. In the Camp I have often made use of a thick piece of Money, half a Musket-Bullet, or the half Shell of a Walnut, and laid that upon the Fuz ball, and over that the Plaister, and sometimes the Plaister first, and the Walnut-shell, Bullet, or Piece of Money upon that, according as they fitted best. All which is done to prevent the bleeding, and to press and close the opened Artery together, to promote its healing.

A Hiftory.

In February 1686. I opened the Temporal Artery on the left fide, of a Noble Man of great Quality, whom I have no Permission to name, who lives on the other fide of the Olaw; he was extremely troubled with a continual Head-ach above a Quarter of a Year together. This Operation was exactly performed in the presence of Dr. Tielish and Dr. Burgs, who advised it, and the Nobleman had ease for about a Fortnight's time; but then the Distemper returned again, so that the Operation signified nothing at all; and the same Pain continued as formerly, till Leeches were applied, and afterward the Moxa, which freed him from that Infirmity for about half a Year, but then it returned again. This Example I thought fit to recite in this Chapter, to shew, That this Operation is not always to be relied upon, tho' fome Men are pleased to extol it in the highest Degree, especially if there be any Malignity in the Case; for tho' the Operation is as well performed as the Chirurgeon or Patient can defire, yet it does not always answer Expectation; which I affirm from Experience and wellgrounded Truth.

CHAP.

Trepanning, what it is, why used, and how, and when to be performed rightly.

Repanning is certainly a very useful and curious Operation in Chi-Trepanning. rurgery, if performed according to Art, and at a proper time, before the Patient has loft his Strength, and is over-power'd by the Symptoms. Of this artificial Operation I shall briefly, but with great exactness and perspecuity discourse in this Chapter. There are, it's true, many Persons who fondly imagine, that boring a Hole in the Skull is a very easie thing, and to be done at any time; whereas on the contrary it requires mature Confideration, a very Able Head, a found Judgment, and a skilful Hand to undertake it; and he who knows how to perform it ashe ought, without hurting the Membranes that lie under the Skull, or committing any other Error or Abfurdity, will be of my Opinion, that it requires the utmost Art of the most ingenious and careful Chirurgeon.

Now the Trepan is made use of for two principal Reasons; first, it often Why used. happens, that in a Fracture of the Skull, small Shivers or minute Splinters of it lie hid under the Cranium, which prick and pierce the Meninges, and can be taken away by no other means but by Trepanning and opening the Skull, and if they remain there, are the certain Procurers of intolerable Pains, and at length, of Death it felf. Secondly, it is employed when by a Fracture, Bruife, or great Depression of the Skull, Blood, putrify'd Matter, or any other Humour falls upon the Meninges, which cannot be otherwise evacuated, but by Trepanning, which gives it vent, and makes way for the ill Humours to iffue out, which they cannot do while the Skull is closed; and also prevents many other dangerous Accidents which

cannot be foreseen or remedied but by this Operation.

However, the Trepan is not to be applied in all Parts of the Cranium, When and particularly, not too near the Sutures, nor to the Temples, or to the lower where it must Part behind the Head, because in that place the Brain lies very near, and not be applied. it would be dangerous to attempt it; nor to that part of the Forehead which is feated a little above the Eye-brows, because it would be a very difficult Undertaking to heal it up again, which ought to be confidered before-hand, lest the Hopes of a Cure proves as dangerous as the Difease. Nor must the Trepan be used on very aged Persons, or where the Fracture is attended with fuch certain deadly Symptoms, as inevitably threaten the Patient with Death; or if it be above Eight Days after the Patient was wounded, and the proper time neglected; for then it will do more Hurt than Good, and scandalize the Chirurgeon, by the Patient dying under his Hands. Nor must it be used where the Patient is very Young, and the Bones foft and tender, for there it will be of little use; because the Trepan will tear it too much, pass through the Skull, and, it may be, wound the Brain before the Chirurgeon is aware of fuch an Accident; for the Cranium being thicker in one part than another, such a Missortune might happen in the Operation, which would throw the Patient into irrecoverable Convultions, and Epilectick Fits.

Other Dangers in this Operation.

There are other Dangers which occur in this Operation, that required great Care and Caution in performing it; the greatest of which are, that the Artist does not press too hard upon the Trepan, when he finds it almost through the Skull, nor turn the Trepan too quick about; for if he does, the Trepan will foon fall into the Crassa Meninx, and tear and wound it: because it often adheres so close to the Skull, that without abundance of Care, it would be almost impossible to avoid that Danger. The Chirurgeon must also be very careful, if the Skull be thicker in one place of his Operation than in another, as has been hinted at already, that he places the Trepan at first accordingly, that the Instrument may cut deeper or shallower, as the Thickness or Slenderness of the Part requires, and then turn it two or three times about lightly, till it is in a due position to anfwer his Intention, which will much contribute to the Exactness of the Operation, and prevent the Danger which otherwife would arife, if it be pres'd too hard, or turn'd unequally. The like Dangers would occur, if the Chirurgeon should place the Trepan too near the Sutures, the Temples, the Forehead, the Nofe, or towards the Neck, as I have faid already, because the Death of the Patient would certainly follow.

The right way of avoiding Danger in Trepanning.

To avoid all these Dangers, when the Chirurgeon has chosen a right place, and in the Operation finds the Trepan is almost through the Skull, let him take it out himself and cleanse it, and order his Man with the help of a Tubulus, or Pipe, of which I shall speak more hereafter, to blow the Shavings continually out of his way, and that he presses the Instrument a little harder on that fide where the Skull is thickest, and gages the Trepan with a Ring, or an Arrest, or rather with the newest Invention with a Copper or Brazen Bullet, and then he cannot eafily commit an Error in the Operation. Blowing with a Pipe is also very serviceable in this Case; for it not only drives away what hinders the Circular Motion of the Trepan, but keeps the Shavings from falling upon the Meninges, when the Instrument has pierced through the Skull, which otherwise would unavoidably injure them. The Blowing must be done constantly, but very foftly, and the Tubulus ought to be a little bended, that it may not hinder the Operator. This necessary piece of Art I thought good to communicate, and if the Chirurgeon is pleafed to observe it, he will find his own Account in it, being altogether new, and utterly unknown till published in this Treatise.

In what Place.

To make a right Election of the Place where the Trepan is to be applied, is also of great Consequence, and worth the spending a little time in discourfing of it; as also whether the Orifice is to be made a large or a little one, or whether one or many Orifices best contribute to the Cure. I am of Opinion, and not without good Reasons in Art, that the best Places to apply the Trepan is about an Inch or Thumb's breadth from the Sutures; and, if it be possible, where the Skull is hurt, if the Fracture will allow it; but if that cannot be done with Safety, and necessity requires it, then the Place is to be chosen where the Physician shall advise. Some Chirurgeons are of Opinion, That more than one Orifice ought to be made, and those indifferent large ones; but I cannot consent to it, and therefore have always taken the middle Way, neither large nor little; because a large Orifice, or many of them, are always dangerous, and one too small fignifies nothing: Large ones generally produce a Weakness in the Head, and a miserable Cure, if any at all. In large ones the Air has too great an Influence on the Meninges, and the Extravalated Blood and Sanies cannot get out of little ones.

At what time this Operation is to be performed, is much controverted At what time, among Artists; but I am of Opinion, that the Chirurgeon that defigns the Benefit of his Patient, ought not to defer it above three Days; for after that time it will have but little or no Effect. But fince this Operation is of great Concern to the Patient and the Chirurgeon, I shall give you the Opinions of some of the best Ancient and Modern Authors concern-

The famous Dr. Muraltus faies *, That Trepaning in a proper time, * Left. 9. p. where the Skull is broke, is of great use to make a Passage for the Blood and Sanies to issue out, which lie under the Cranium. Hypocrates + and + L. 1. c. 3. Paulus Egineta say *, That we ought not to stay above three Days before de Vulneribus it is performed. Albucasius saies, but in my Opinion very indiscreetly, * Tract. 1: c.8. That Trepaning should not be used till after Seven days in Summer, and P. 43. Fourteen days in Winter; but he that governs himself by this Rule, will do very little Good; for peradventure the Patient would be in his Grave in less than half that time. Th. Fienus, after a long Disputation about it, faies *, That the Chirurgeon who thinks there is a necessity to use the *Chirurg. S. 2. Trepan, and finds no just Cause to hinder the Operation, he ought to per- P. 226. form it in time, and the sooner the better, for Delays in this Case are often very dangerous. Dr. L. Jungkius tells us +, That we should not delay the + Chirurg. 1. time at all, especially if any dangerous Symptoms occur; and that it is not to be attempted after the third day, or the fourth at farthest. The Excellent Dr. Overkamp in his New Chirurgical Treatife + advises also to Tre- + Chirurgal 2. pan, if there be occasion, as soon as possible, that the Blood and putrified c. 30. Matter might be evacuated, and the inward Medicines might operate the better upon the Patient, and refift Putrefaction. The Diligent and Judicious Dr. Blanckard + does not mention any precise time for the doing it, \$ L. 2. c. 38. but he that reads him may eafily perceive he is against deferring it. And of the same Opinion is Dr. Selingen, who saies t, We ought not always to # Chirurg. p. stay for apparent Symptoms, since the Blood and Sanies may lie lurking a 1. c. 6. p. 40. while on the Sides, before they make a more manifest Discovery, which in Summer would soon putrifie. Dr. Munick, Petrus de Marchettis, Job van Meckeren, Tulpius, Paraus, Scultetus Frabricius Hildanus, and several others are of the same Opinion.

Trepaning, according to the best and newest Method, ought to be per- How Trepaning formed in this manner: Set your Patient in a clear and convenient Light, ing is to be on a Chair which you may go round about, and where he may be feel performed. on a Chair which you may go round about, and where he may be held fast and upright; and having all things ready, and within your Reach, begin the Operation. If the Wound is large enough, there is no need to make a Crofs Cut, but only a small Incision. If the Wound is long, then only make a Thwart Cut, and extend it as you think convenient; and if you must make an Incifion, do it upon the Skull, that the Arteries may not be injured, if it be possible to avoid it. Then take some small fine Linen Rags, dip them in warm White Wine, squeeze them out again, and lay them round the Lips of the Wound, to preserve it from being further hurted; and let the Rags be made fast, that they may not hinder the Operation. Put Cushions under the Patient's Chin, about his Head, and stop his Ears with Cotton-Wool, that he may not hear the Noise of the Trepan or other Instrument. When you have chose a place for the Trepan, mark it and its Centre with a Pyramidal Instrument; and when it's a little perforated and made fit to Trepan, then set the Trepan fast and even upon the Cranium; with the Left Hand take hold of the uppermost Handle or the Ball; with

At what cime,

the Right Hand take hold of the middlemost Handle, and turn the Trepan two or three times gently round, that the Trepan may get true hold of the Cranium; then go on a little fafter, but firm and evenly, without wagling. Let your Affistant in the mean time, with a Tubulus, or Pipe of about half a Yard long, and fomething bending, blow the Shavings out of your Way, without hindering you, that you may the better fee how you proceed. You may also take out the Trepan sometimes, to cleanse it, and let it cool a little: Then proceed on your Work again, and continue it till you are almost through the Cranium; for then your whole Care and Art must be exerted, lest you injure the Membranes that he under it, and that the piece of the Skull which is bored, may be handsomely taken out. The Tubulus, as I have said before, will be here of great Use, not only in taking the Shavings out of your Way, but by blowing, the Dara and Pia Mater will diflodge themselves a little from the Skull, and not be so easily hurted. If the Bone should chance to hang in one particular place, it may soon be separated with a proper infirument. When all this is done accord-Chirarg. S.2, ing to your Defire, take out all the Splinters, and broken pieces of the Skull; let your Patient rest a while and hold his Breath, which will much contribute to the throwing the Blood and Sanies out at the Orifice which was made by the Trepan, and the oftner this Course is repeated the better. If any Matter yet remains behind, you ought to dry it up with a for Sponge; but remember that in the Cavity between the Skull and the Menimes, you put a fine Silk or Linen Rag, but not too big, that has been moistened and warmed, that Nature may have room enough for the Extrusion of the putrified Matter.

A History.

Simon Fridrick a Dyer at Hervoden, 45 Years of Age, was flruck upon the Forchead with a Pewter Pot by another Burgher, as they were drinking together in the Year 1676, which caused a great Fracture in the Skull: I being then quartered there with the Elector of Brandenburg's Regiment of Foot, commanded by General Getzick, was called to him, and found him bleeding extremely, deprived of his Understanding, and vomiting continually. First, I caused the Hair to be taken off, searched the Wound, stopt the Bleeding, and over that part of the Head applied Emplastrum de Betonica, and over that laid good Bolsters warmed in Wine. The next day I brought Dr. Schmidt the Camp Physician along with me, and having further informed our felves, and let the Patient Blood, we perceived the Symptoms encreased, and the Patient fill remaining senseless and speechless; we made Preparation to Trepan him, which was performed that very Afternoon about three a Clock, in the presence of the Doctor and Mr. George Paulebsky, a Chirurgeon. After having made room enough by a thwart Cut, I applied the Trepan very successfully; for it was no fooner done, but abundance of Blood and Sanies came forth, which lay in great Quantity under the Skull upon the Dura Mater; then cleanling it very well, and laying the Patient again in a fitting Posture, about a Quarter of an Hour after he appeared like a Man awaked out of a long Sleep, and by degrees came to himself again; his Speech and Understanding returned, and certainly it will have the same Effect, where Trepaning is timely used. In short, the Patient quickly mended, and in Nige Weeks time was perfectly recovered.

Not long after I had another Patient at Soyt, by Name Peter Jacobsen a Soldier, who was violently beaten with a great Rule or Staff by a Bricklayer upon the Musculus Temporalis, infomuch that the Os Temporum

was utterly broke. In December following the same Year, a Corporal who was dangerously wounded with a Scimeter upon the Sutura Coronalis, which cut quite through the Skull, in the Action at Turksbaugen, came also under my Care both which I Trepanned two days after they were wounded, and both were perfectly recovered. A state of with the Addition of Both drivers of the state of Succession Between the Count Lalwage one which a day I havil fine Rug dipped in Met Refarms, which not only consluced to its healing but hindered

its growing to the Gums, adVnave To Auth Onetimes happen, for want

Of Hare-Lips, how they are to be cut, flitch d and cured. If a Harre Lip is extraordinary large, much Fielh wanting, and the Car-

THIS Operation also, requires a Diligent and Experienced Chirur- Hare-Lips geon to perform it as it ought to be. Dr. Selingen in his Book their different of Chirurgical Operations *, has treated this Subject very ingeniously, di- * Part 1. c. Ringuishing it into Six feveral Kinds. Some, faies he, are larger, and worfe 35. p. 67, 60. than others; some want Flesh, and others have too much; some are Callous, and others are not; in some the Jaw-bone, Gums and Teeth are well, and as they ought to be, and in others they are wholly delective, which in truth is the worst of all; and each of these several Kinds have

their particular Way of Cure.

In order to which great End, the Chirurgeon should deliberately con- Cautions. fider the Age and Constitution of the Patient; for if it is a Child very young and weak, and the Hare-Lip large, it will be better to forbear the Operation a longer time, because the Child would not be able to suck, but languish away for want of Nourishment. He should also enquire whether the Child's very Peevish, given to violent Crying, subject to Fits, or other ill Accidents, and manage himself and the Cure accordingly, as will be shewed hereaster; for if the Hare-Lip is very large, and part of the Jaw-bone, Gums and Teeth are wanting: If it gapes wide, continues open to the Nofe, has Corners, and is knotty, it's much better, under fuch Circumstances, to let the Patient grow stronger, and stay till

it has done fucking, and is accustomed to other Food.

No Person should arrempt this Operation, till he has seen it exactly per- How to care formed two or three times, by an Able and Experienced Chirurgeon, and Hare-Lips. has his Blood-stoppers, Plasters and Needles in readiness, to stitch and join the Lips together, and because the whole Cure depends upon that part of the Operation; he must oblige all his Patients to be Ruled, and remain Still and Quiet; for it it should rip or break out again by reason of the foftness and tenderness of the Flesh in young Children, it will be very difficult to make them Unite again afterwards. You must further observe, That if the Hare-Lips are large, and much Flesh wanting, there is a Necessity to apply an Emollient Cataplasm to the Lips, three or four days before you begin the Operation, that the Flesh may be more pliable and fretch the better, when you are about to unite them, or elfe it will be apt to rip and break out again. But if the Hare-Lip is not large, there is little Difficulty in the Cure: As it happened lately in a Clothier's Child in Tashen-street, who was brought to me to be cured. I pared away the Skin on both fides with an incision-knife, then stitching it together with Needles and Silk and applying good Bandages, it quickly healed. In other Cases, where every thing was not likely to succeed so happily, I commonly used to make the Flesh where it is joined to the Gums more Raw, and

ffrewed

Hidlory.

strewed some fine Powder of Radix Consolida and Sarcocolla upon them, and giving a deeper stitch under the Lip, left the Needle in the Flesh, tied the Silk several times about the Needle, and took off the Point with a Pair of Pincers, which keeps it so firm, that it cannot break out again. To the other part near the Nose, I usually applied F. Wurtzen's Fracture-plaster, with the Addition of Boli Armene Zij. Tragacanthæ Zi. and never failed of Success. Between the Gums I always put twice a day a small fine Rag dipped in Mel Rosarum, which not only conduced to its healing, but hindered its growing to the Gums, as I have known it sometimes happen, for want of Care in preventing it. Some mix the White of an Egg with the Hony

of Roses, that it may stick the faster, which is not amis.

If a Hare-Lip is extraordinary large, much Flesh wanting, and the Cartilage hard, knotty, angular and joined to the Flesh of the Lip; great Care must be used, especially in stitching upon the Incision, that you may fee how to separate the Cartilage or Griffle, left it too much disfigure the Lip. In such a Case you ought to proceed after this manner: Lay your Patient upon Cushions on a Table in a convenient Room, tie him Hand and Foot with Towels, that you may not be hindered in the Operation; let your Affistant hold the upper Part of the Patient's Head very firm: Then first, with an Incision-knife cut the outward Skin on each side with Sciffers, or what you can best come at the Places with. Cut the Lips as large as is requifite, all along the Griftle, and the skin of the Lip from the Cartilago. When this is done, wipe every thing clean with a Sponge, strew the following Powder upon the Wound, and unite the Lips as close as possibly you can: Then put three small long Plaisters upon the Lips, and with them force the Hare-Lips together, but leave as much space between every Plaister, as is sufficient to set the Stitches in. Then porceed in the middle and below the Stitches, as I have taught before; apply the same Medicines, and observe the same way of Cure. Over all these things in the beginning of the Cure, lay a good Defensive Plaister mixed with the Emollient Plaister, that the Flesh may be kept soft, and no ill Accident occur. In the infide on the Gums, always put a moist piece of a fine Rag, as is faid before, and at last conclude the Cure with a good Emplastrum Oppodeldoch. Here I must also acquaint you, That there are several Sorts of Sutures used in this Operation, according to the different Fancies and Opinions of Artists, and as many Kind of Stitches; some imitating Furriers, Glovers, Taylors, Shoemakers; but my own way having never yet failed me, I have no Reason to try others.

In October 1686. a little Boy was brought to me out of the Countrey, from a Place called Langenwife, about three Years of Age, who had a very ugly and mighty large Hare-Lip, which none could behold without Aftonishment, as may be seen in the following Figure. Besides, there was more than two Fingers broad of the Upper-Jaw, Teeth and all, wanting, which, with a very Unhandsome Nose, made the Boy look very frightfully. However, I cured him in about Ten Weeks time, as well as it was possible to be done. The Ligature, and how the Needle should be used, is also described in the same Figure. This Patient without doubt had been sooner well, if he had not been troubled with Fits, with which they never acquainted me, till I saw him in one under the Operation, which much retarded the Cure; and Eight days after St. Anthony's Fire broke

to make the Peth where it is joined to the Gums more Raw, and

out in his Face, which was another Impediment,

Hiftory.

The Plaister and Powder before-mentioned, was of great Use in this Cure, therefore I have given you their Prescription, being of Opinion there can be nothing better in this and many other Cases.

Re Emplastrum Diachylon. Simpl. to so. Stictic. Crollii Zij. Tragacanth. Gum. Arab. ana Zvj. Rad. Consolid. major Z j. Sarçocoll. Aristoloch. long. ana Zv. Resin. Ziiij. Ol. Myrtin. Zij. m. s. ad formam Emplastri.

The Powder mentioned in this Chapter, must be made very fine in The Bloods this manner:

Be Pulv. Sanguin. Draconis Z ss. Tragacanth. Zj. Rad. Consolid. maj. Sarcocoll. Gum. Arab. ana Zj. Cuti Fabril. Zij. Misse, servatur ad usum.

These two Prescriptions I recommend for the Cure of Hare-Lips, but chiefly the Powder, which is also an Excellent Remedy for stanching Blood in all manner of Wounds in any Part of the Body, as I have often experienced with great Conveniency to my self, and Benefit to my Patients; for it stops Bleeding, and joins opened Veins and Arteries in a Moment, and yet has no Sharpness or Corrosive Quality in it.

CHAP. VII.

Fontanels or Issues on the Crown of the Head, and Seatons in the Neck: How they are to be made, and what is to be observed concerning them.

they may be beneficial to the Patient. A while fince I made one in the Head of a Man of great Quality, for a Distemper in his Eyes, which no Chirurgeon in that Place, though a considerable Town, knew how to make, or scarce ever heard of one made in that Part before; for in such Distempers they commonly made them in the Arms, or in the Neck, which now are almost grown out of use, in Comparison of what they were formerly. The Fontanels of which I here design to treat, are much better known among the French and Italians; for they are not so humersom or squeamish as the Germans, but having more regard to their Health, don't think them any kind of Trouble. They use them with good Success in all Distempers of the Eyes, and the Falling-sickness, Apoplexies, Palsies and other Instrmities of the Head, where they perform many great Things, and as soon as the Patient is recovered, they dry them up again, and consider nothing further in the Matter.

The only Difficulty in making an Issue in the Head, is in making choice The Place to of a proper Place, for otherwise it will signific very little. In order where make them as unto observe this Method: First, take off the Hair about the breadth of a Crown-piece, from the Crown of the Head to the place where the Sutura

Coronalis

CHAP. 7.

with your Finger, make your Issue there; but if you cannot find it by this Method, and the proper place being all in all; then take a strong Thread, draw it from the Tip of the Nose to the hinder part of the Neck; then take another Thread and draw it over the Head in a strait Line, from the middle of one Ear to the other; mark the place where the Threads cross one another, and you have found the Place where you ought to make the Fontanel. Others find the Place after this manner: Let the Patient lay the Joint of his Hand upon the hollow part betwixt the Nose and the Forehead, and extending it to his Head, where the end of the middle Finger touches, is the proper Place to set the Issue.

How they are made.

There are several Ways of making these Fontanels; in Italy and France they commonly use Actual Cauteries, which are Irons made with a small round Head in Form of an Acorn, which being made very hot, and the Skin touched with it, where you design to make the Fontanel, it will raife a Blifter, which being cut, and a Pea put into it, with a thin Piece of Silver upon the Pea, and Bolsters and a Bandage over the Silver Plate. to make the Pea work its way downward; let it continue fo for two or three days, and at the next opening you will find the Iffue made. In other Countries, as also here in Germany, instead of Actual they use Potential Cauteries or Corrofives, because they are not so frightful to the Patient as burning with a hot Iron. Some only use a small Pair of Pincers, not unlike those which are used in the Polypus of the Nose, with which they pinch a Hole in the Skin, big enough to put a Pea in. This is quickly done, and I have perform'd it very often with great Satisfaction. However, Care must be taken not to pinch too deep into the Flesh. In burning with a hot Iron, remember not to press the Instrument too deep, for fear it should burn too far into the Flesh, and perhaps touch the Pericranium, which would give you a great deal of unnecessary Trouble and Vexation. In the Use of Correfives you are to observe, that those which are made of Silver and Aqua Fortis, are the best that can be used in this Place. Others made of Ol. Antimonii, Spir. Nitri, Butyr. Antimonii, Aqua Fortis, and the like, are not to be used in making Issues on the Head, because they are less certain than the other. Dr. Solingen in his Chirurgia *, has indeed described at large, and Engraved a New Instrument, with which Issues are first to be cut, and afterwards cauterized with a burning Iron, through the first Table of the Skull; but leaving him to his own Opinion, I think there is no necessity for such an Operation; for it will not only put the Patient to intolerable Pain, but usher in very dangerous Accidents. If the Orifice is at first made through the Musculous Skin, it is far enough; for it will work it felf deeper, as common Experience sufficiently testifies.

Part I. C. I

How to be dreffed.

Instead of a *Pea*, some at first put a White *Pepper-Corn* into the Orifice, under a Supposition that it will make an Issue deeper, and sooner than a *Fea*, and the Thought is not much amis; but it will fret the Part, and be more painful than the *Pea*. In dressing the Issue, you must observe, after you have laid a Plaister over the Orifice, to lay a pretty thick Bolster upon the Plaister, and in such a manner that it may be thicker downward than it is upward, that it may be tied faster, and the Issue be kept in its right place without moving.

A Seton how made, and for what end.

Setaceum or a Seton is much of the same Nature with a Fontanel, only it has two Orifices which are made with a Needle and a Skean of Silk, drawn through the fleshy Pannicle of the Neck, and is kept open by the

Skean

Skean of Silk being drawn once or twice a day from one fide to the other. It is a very terrible and troublesome thing to be tormented with it, especially to tender Persons; but fince it is no longer continued than there is urgent Necessity for it, and that in many Cases it's highly beneficial, several Persons are contented to endure it, in hopes that a Cure will recompence the Molestation. It is commonly used against inveterate Defluxions of Rheum into the Eyes, and Pains in the Head; for by this means the peccant Humours are drawn away and evacuated. The Helpful well of

Dr. Blankard in his Chirurgia *, feems not to approve this naufeous Opera- Authors Operation, for he calls it an unneffary Exulceration, and a felf-created Difease nions of it. without any Benefit. On the contrary Dr. L. Jungkius in his Chirur- *L. 2. c. 14. gia*, commends it in feveral Distempers. Dr. Muis in Observationibus * Sect. 2. c. 22. fuis, does also recommend it in Cataracts of the Eyes, if timely used. oper.2. plast. Spigelius, Beverwick and Barbette apply it in the Hip and Calves of the Legs in a Sciatica. Riverius and Helmont used it in all Distempers of the Head, and particularly in Deafnels. Scultetus and Hildanus use it in all Pains of the Neck and Limbs; and Pareus also in the Falling-Sickness. In brief, he that would take the Pains to transcribe all that has been writ upon this Subject, especially by the Ancients, he would want more than a Quire of Paper to do it in, without mentioning the Variety of Instruments adapted to this Operation, which gave a great Trouble and Charge to the Chirurgeon, and intolerable Punishment to the Patient, especially when a Red-hot Needle was used with it.

But at at present Chirurgeons don't give themselves so much Trouble How to make about it; for having marked the place with the Fore-finger and Thumb and dress it, of the Left-hand, they squeeze the Skin together, and pluck it up as high after the manas is necessary to fever the Skin from the Muscles: Then they thrust a use. great three-square Needle with a sharp Point and a little bended, through the fleshy Pannicle, and draw the half Skean of Silk through the Skin, and there leave it; which being afterwards moistened with a Digestive or Oyl of Roses, which must always be done at every Dressing; twice or thrice a day they draw the Silk from one fide to the other, and the Bufiness is done. Afterwards they dress it with Plaisters and Bolsters, as they

do an Issue, as long as they defire to continue the Seton.

In the Month of March 1689. I made a Seton in a Lady's Neck a little History; higher than usually, who was troubled with a constant Pain in her Ears. Deafness, and the continual running of a thin stinking Matter out of the Ears; and the Seton having been kept running about a Month, all the Symptoms ceased, and the Lady found her felf very well, though she had formerly used many Medicines to no purpose. About a Quarter of a Year after, the came to me, defiring the Silk might be taken out, and the Wound healed up again, which was done accordingly; but in less than a Month's time she came to me again, complaining that the Symptoms were returned, and she in as bad a Condition as ever, and therefore would not go away till the Seton was made in her Neck again, but a little lower than formerly : which being done, in a very short time all her Grievances uttery vanishind in foveral other Anthors who have tre

In the Spring of the Year, 1690. I made a Fontanel in the Crown of Observation the Head of a Merchant's Wife in the Niew-Town, for whom a Chirurgeon had made one very unhappily before, which produced a miferable Effect. The Patient was continually troubled with an excessive Pain both in her Head and Teeth, which fometimes deprived her of the Use of her Senses;

but the Issue I made, was so beneficial to her, that in a short time the Pain of her Head, and at length that of her Teeth went off as well as could be defired. Dr. Regius who was her Phyfician, was long before he would confent to it; but she knowing, that not long before I had cured an Old Commissary's Inflamed Eyes by the same Means, she would not be fatisfied without one; which when performed, had its Effect. Which Histories I don't mention as if this Course was always to be observed, but to shew that these Remedies ought not to be utterly despised and rejected.

. THA P. VIII.

Of all Sorts of Tumours in the Face.

Tumours' in the Face.

Here are so many several Kinds of Tumours incident to Human Bodies, that the Reader must not expect I shall treat of any here, but what happen on the Face, and either Hurt or Disfigure it; which often are of such a Matter and Colour, that it's hard to define of what Sort they are. No Part of the Body is fo much troubled as the Face with all Kinds of Tumours, as Swellings, Spots, Freckles, Pimples, Warts, Ganglions, and other Exulcerations, without mentioning the feveral Difasters and Maladies happening to the Eyes, Ears, Nofe, Mouth, &c. Of all which I shall treat in their feveral Places as fully as is necessary.

*L. I.C. 10. p. 200,

From whence A Tumour on the Face, if we trace it according to the new and fafeft they proceed. Principles, is generally a high and preternatural Swelling included in its own Cift or Bag, and by degrees growing bigger, till it's both offenfive and painful. It commonly proceeds from the Obstruction of the Glandules. and the extended Veffels of the Chyle, which, according to Dr. Overkamp in his Chirurgia *, being nothing but large Channels, appointed by Nature for the Passage of the Succus Nutritus, is obstructed in its Motion by this Cift or Bag, which contains the Matter of the Tumour; it fometimes happens also to the Veins, Arteries, and Lymphatick Kessels. When it happens on the Arteries, it foon encreases, is very dangerous, and called Aneurisma: If on the Veins, where it seldom comes, it's called Varix, and in the Lymphatick Veffels, Hydatides. Here it's also fit to be consider'd, That the three last Kinds above-mentioned, altho' the Blood and Humours do gather in a Bag, yet it does not totally obstruct the Circulation as the first Kind does; where the Chyle is stagnated, and by degrees contributes to the increasing of the Tumour.

Different Sorts The different Sort of Tumours arise from the Matter of which they are compounded, which are various in their Kinds, Colours and Refemblance. Sometimes the Humour looks like Honey, Pap, Tallow or Seame; in others it refembles boiled Millet, the Roe of a Fift, and other whiles like Hair, Coles, Catton, &c. of which you may read at large in Dr. Blanckard's Chirurgia +, and in several other Authors who have treated on this Subject. p. 236-8 fequ. But Dr. Munnicks, differs from the rest about the Cause of these Tumours, and faies in his Praxis Chirurgia +, That the Original of fuch Tumours proceeds from a Viscous and Glutinous Humour, separated from the Blood in this or that part of the Body, more or less altered; which being inclosed in a Bladder, increases by degrees till it comes to be an Atheroma, Steatoma,

of Tumours.

\$ L. 1. c. 9. Several Authors Opini-!

or a Meliceris, and fo further. This Opinion I was unwilling to conceal, that the Reader may chuse which he thinks most agreeable to Reafon; for my part, I am of the same Opinion with Overkamp; Blanckard, and Baugrand, in relation to true Tumours; the I cannot deny but there are other Sort of Tumburs in the Face, as those in the Corners of the Eyes, in the Glandula Lachrimalis, on the Eye-brows, on the Musculus Frontalis, Ganglyons, Polypus stin the Nofe and those that grow out at the Ears, and proceed from another Caufe. These Sort of Tumours, it's true, may grow in other Parts of the Body, according to the Doctrine of Cornelius Celfus *, where- * L. 7. 6. 6. soever the Vessels, Glandules or Tubuli are subject to Extension, Obstru-Aion, and the Circulatory Juices, to be hindred in their Regular Motions, and the Matter and Exhalations may adhere, and be Stagnated. Dr. Jungkius in his Chirurgia * adds to this, That not only the Tubuli and Vafa * Sect. 2. open we have already mentioned, but also in the very Nerves and Tendons, when p. 418. their Tubuli by Oversftraining, Falling or Beating, are Turned, Crushed or Bruifed, the Circulating Liquors will stagnate and raise a Tumour. Dr. Solingen, who feldem omits giving his own Opinion, has faid nothing on this Head, for what Reason I cannot imagine, unless it was because it was a difficult Point, and not yet agreed upon. Monsieur Beirel the King's Chirurgeon at Argenton, feems to have the fame Opinion, and faies in his Excellent Observations; Let the Ancient and Modern Physicians Cabal and Contend as long as they please, concerning the Matter and Original of Tumours included in their own Cifts, Time will er'e long shew who are in the right; with which I conclude, having been already longer upon this Head than I first intended.

Now before I describe the Method of Cutting Tumours, I shall first, for certain Reasons, propose some Rules concerning their Cure, that the one may give Light and Instruction to the Chirurgeon, how he ought to proceed in the other; for the Cure of all Tumours in the Body as well as in the Face,

confifts in the Four following Articles.

I. In tying the Root of the Tumour fast, if it be possible to be done, Rules to be 2. In opening Excoriations, and crushing out the Matter contained in them. 3. In cutting out the whole Tumour, if the Swelling is large. 4 In opening such Tumours with a Corrosive where the Knife cannot be used. that the Corruption may be evacuated; or if there to no Matter, that the Tumour may be confumed by degrees, and utterly rooted out by the

frequent Repetition of proper Corrolives.

Of the first there is not much to be said; for if you find that the Tumour is Perpendicular, then you must tie it with a Skean of Silk or Horse-hair, first slightly, and by degrees stronger and stronger, till the whole Tumour is mortified; but if any thing remains behind that is not quite eradicated. as it sometimes happens, especially in the Corner of the Eye where the Chirurgeon cannot come at it but with great Difficulty, then it must be confumed with Butter of Antimony, still remembring to Dab and wash the Part with a proper Lixivium to mitigate the Pain, and temper the Aci-

Some I know will not be of my Opinion, but what I fay is from a well- Small Tunours grounded Experience, that this Method will extirpate all Tumours in the how cured. Face, that are not very large, and of too long Continuance: I fay it will do it, if the Tumour be only opened, and the Corruption cruthed out: as for the bottom it may foon be cleanled with any thing that is sharp and fomething corroding; but especially if you make use of my Water

NT DATE THOUSE NOW

adapted

adapted to that purpose, which will do it at one Application, which I thought fit to mention here, because the Tumour being on the Face, you must do it nearly, for fear of spoiling its Beauty, which will unavoid-Observation. abily follow Excoriations and Cuttings. In this manner I larely took away two Tumours; one was upon the left Cheek, and the other on the right Eye-brow: The first from a Baron's Lady of Silefia, and the other from my Lady Pr. of M. and both fo artificially, that you can fearce differn the Marks of them. If the Cift or Bladder, and the Matter contained in it, upon your touching feels tender and fost, your Work isleasie; for the Putrefaction will foon be discharged; but if the Tumour is of long flanding, the Bag thick, and the bottom rooted very deep, in such a Case it will hardly prevail; for in those kind of Tumours, the Opening must continue long, that the Matter may be continually cruthing out, and the see rest confumed with Corrosives; or if it can be dilated, the Bagomay be exterminated with Pincers, Sciffers, or other proper Inftrument as is affirmed by Mr. Blondetos the French King's Chyrugreon at Toulon; die to

Large Tu-mours how cured.

O'Again, if the Tumour is very large, of long standing, and in a fleshy Part, then you may tie a String very fast about the upper Part of it, two Days before you begin the Operation; for by this Means the Tumour will be more pliable, and may be excoriated with the greater Ease; of which I shall say more in the following History. But if the Tumour happen in a dangerous Place, and you are defired to do your utmost; first try to open it, if that will not do, try to evacuate the Humour by the Application of Corrolives; but if this, nor no other Medicine will have effect, then let it alone; for it must be called a Noli me tangere. Not long ago such a Tumour happened under the right Ear of a Great Prince in Germany, upon the Arteria Carotis, in which there was fo much Danger, that no Person durst attempt to meddle with it. tot no family bear id

Of the fourth and last kind of these Tumours, I have little to fay, because every Chirurgeon will make use of such Correspos or Causticks as he thinks necessary. In the fourth Rule I said, that for two several Reasons a Cure was undertaken according to this Method: First to give vent, that the Matter contained in it might be crushed out, where no other manual Operation would fucceed. Secondly, If there was but little Matter, the Tumour small, but of a malignant, spongy, and sometimes of almost a Cancerous Kind, there Corrolives and Actual Cauteries, if prudently used, might have good Effect, if the Scituation, Kind and Largeness will per-

History.

In the beginning of January 1686, a Brewer's Daughter unmarried, named Helena, Eighteen Years of Age, living in the Haw-freet, was brought to me to be cured, who had a very large and prodigious Tumeur called Atheroma, in her Neck, which after Exection, weighed Three Pounds and an half; that at the bottom was of the same Colour with the rest of the Skin, and interwoven throughout with a Multitude of Arteries and Veins which were grown in, and united to the Swelling, and the Tumour was of Ten Years continuance. Besides, it was of a strange Form, neither round nor long, but as if a great many Tumours were united and grown together, as you may fee in the following Figure *. In the upper Part it was about the bigness of a good Apple, brown and blue, glandulous and speckled; in some places open, stinking, and almost Cancerous, which was the principal Reason why they came to me; for otherwise out of Fear they would yet have staid a longer time. It was so heavy, she was forced

* Vide Tab. 4. Fig. 1.

pits il.

410.1.10

to wear it in a Bag, with a Ligature fastened over the Head to hold it

APo-

Before I attempted the Operation, and Dr. Burg had prepared her Body for it by inward Medicines, I applied to the upper Part of the Swelling where it was already open and malignant, a strong and proper Correfive, to try if the Opinion of Mr. Darles Chirurgeon of Baucaire, was true or not, viz. That in such kind of Tumours, on the second or third day, the Flesh would grow as much again as was taken away by the Caustickes, which in truth it did, to the great Admiration, as well of Dr. Burg, as my felf, that a Tumour should so much increase by its own Excrescency in to thort a time. Whereupon I tied the Tumour with auttrong Ligature at the Root the fame Evening, and early next Morning performed the Excortication, having first out off the whole spongy Substance, that it might not hinder me in making the Separation. I could make no Obfervation of any Veins or Arteries in this Operation, because it would not only have occasioned a great loss of Time, but would have been very painful to the Patient. In the whole I proceeded with all the Diligence and Caution I could, and as the Case required. And as soon as all was performed, and the Tumour extricated, I joined the Lips of the Wound as close together as was possible, and applied Astringent Plaisters, and Bolsters moistened in warm Wine to the Part; all which had such good Effects, that the Patient in less than Eight Weeks time was perfectly recover-

This puts me in mind of Dr. Kergers, a Celebrated Physician at Lignitz, Observation; who by a Fall from a Chaife-volante, occasion'd by the Horse's going out too foon, caught a Hurt in the middle of his Right Leg upon the Tibula, that rais'd a Tumour about the bigness of an Apple, which continually growing bigger, and full of Pain, he caus'd it to be cut off by Mr. Lawrentz the Chirurgeon; who finding in the Operation, that the bottom of it lay close upon a Tendon, which he fearing to hurt, did not cut it quite out, thinking it might be taken away by Corrofive Medicines, and fo retrieve the Error which his Fears occasioned, which at first gave promising Indications; but he only applying a little OL Hyppericonis upon Lint, there followed by degrees such a great Quantity of Spongy and Cancerous Excrefeencies, that it was much bigger than at first, and impossible to be taken away by Cutting. Corrofives were often applied, yet still it grew bigger, and the longer the worfer. The Doctor's Pains and Torments increafed, and his Strength decayed; all Remedies failed, and nothing would do any good. At last, upon his own Request, and the concurring Opinious of all the Physicians, his Leg was cut off just under the Knee, and indeed was very well performed, but he died shortly after. Which rare and remarkable Observation I thought fit to communicate to the Caution and Confideration of all Practitioners in Chirurgery.

par in the Cerebram and Oterus. The Johnt Zeidler, when I was carring him of an Atheroms on the upper hye-lid; prefented me in the Year aboat with a Figure or Cut of a Polyons, which was found at Progre in the Heart of a Jefair, feated in the right Featrick of the Heart, but its Root run through the Right Lolos of the Lungs, and the Left into the Osfophagar or Guller. Mr. Logan, an Eminent Chirargeon as Lyfe, fentune allo a Figure of a Polypus in the lame Year, which was found in the Abdomes of Secretary. Helder, which kintend to discourse upon more P. P. and have a On engraven and interred in the Second Book of CAF.

Songread Course fries.

to wear it in a Bag, with a Ligature failuned over the Head to hold it Before I attempted the Operation, and Dr. Burg had prepared her Bo-

A Polypus in the Nose, what it is, and how to be eradicated and cured.

cema er Ozena.

not, we. That in fuch kind of Tumeurs, on the freend or third day, the COme Authors are of Opinion, That a Sarcema or Ozena and a Polypus are the same thing, and that there is no difference between them; pus and a Sar- but I must take leave to enter my Dissent; for a Sarcema and an Ozena are malignant and filthy flinking Ulcers, and commonly appear below the Nose in the fleshy Part, between the Nose and the upper Lip; and if it spreads and grows worse, reaches to the Sides of the Nose; but a Polypus is a true Tumour, which from its beginning has its Root, and is included in its own proper Bag, which commonly adheres to the upper end of the Os Cribriforme or in months, and to its Cartilaginous Processus; yea, some times it fettles upon the Gums, and in time increases to fuch a Degree. that it fills the whole Nostril, hinders breathing, and sometimes grows for big that it hangs out of the Nostril, and may eafily be feen, and drawn forward, always increasing and decreasing with the Moon. That Famous Physician and Burgermafter of Amsterdam, Dr. Nicholaus Tulpius, has

*Cent. 1. Obs. noted this in his Observations *, and incerted a very Curious History up-

26. p. 5. on it.

What a Polypus is.

This Glandulous Tumour, which has its Origine from a filthy fpongy Flesh, and from a small soft and tender Radix in the beginning, at length magnifies to fuch a Degree, that it quite ftops up the Noffrils, hinders the Patient from Smelling, Speaking and drawing his Breath; is fometimes Red, and sometimes White and Blue, according as it borders more or less upon the Blood or Chyle Veffels; or as it has suffered Irritations by the Ignorance of Chirurgeons, who pretended to cure what they did not understand, which much contributes to the Alteration of the Colour. Sometimes it slicks so very deep in the Nose, and hangs out so far, that the Roots of it may be feen before and behind the Vvula. Dr. Munnick in his Di-L. I. C. 24. scourse on this Head, says , That if the Polypus is Soft and White, it is eafily cured; but if it be Red, and runs a great way up into the Nofe, it's very difficult to be reduced; and if it is Black, Yellow, Ash-colour'd and stinking, it is thought Incurable, it then inclining to a Cancer, and infinuating it felf to far about the Gula, it's impossible to be eradica-At last, upon his own Request, and the conc.bst

p. 289.

A Polypus may happen in feveral other Parts of the Body, yea, even in the Heart, Bowels, Spleen, and in the Arteries, and Sinus Meningum, as * Obs. Medic. is affirmed by Dr. Blanckard and Dr. Tulpius. Dr. Becklin * has given 1. 1. Obs. 1. & us two Choice Histories of a Polypus in the Heart, and of a Pfeudo-Poly-2. p. 202, usq; pus in the Cerebrum and Oterus. The Jesuit Zeidler, when I was curing him of an Atheroma on the upper Eye-Lid, presented lime in the Year 1692. with a Figure or Cut of a Polypus, which was found at Prague in the Heart of a Jesuit, seated in the right Ventricle of the Heart, but its Root run through the Right Lobus of the Lungs, and the Left into the Oesophagus or Gullet. Mr. Logan, an Eminent Chirurgeon at Lyse, fent me also a Figure of a Polypus in the same Year, which was found in the Abdomen of Secretary Helcher, which I intend to discourse upon more at large, and have a Cut engraven and inferted in the Second Book of Chirurgical Curiofities.

A Polypus, as I have faid already, is eafily cured at first, while it is little, The three sebut if every not without Difficulty, when it is large, and of long conti- Cure. nuance, especially if it opens, and is in a manner grown Cancerous; for in fuch a Cafe scarce any Operation will succeed, or Medicine prevail, because it will grow more in one Night than can be taken away in two days. Therefore in order to a Cure, begin with Medicines while the Polypus is fmall for pinch it away with Forceps made for that purpole; or laftly, employ an Alfual Cautery, if there be occasion. If the Polypus is of a malignants Nature, the Chirurgeon will be forced to make the of all these Three Methods: And therefore in the first place I will present him with the Powder, which Lineve always found successful in the beginning, when the the Skin is first a little raken away by a proper Corrolive, side to the toxing

apply it with a fufficient Quantity of Conton to the Polygas, taking one Re Pulve fol. Savines 3, iso Cortico Granator. 3 ij. Mercun. Sublimat. all. Proper Medi-36. Tutie preparat. Ocul. Caner. and Sijls Vitriol. alb. Alum. ufti cines to cure 2 -199 uo vana Dijis. Mydrh. 5 b. Sacch. Saturn. Aloes and 31s. Mifce f. ad fubcoive this Process will answer the End, pursue maxaylog impmifilibre. But

it you have Realon to believe the contrary, then procure an Alinal Can-This Powder or the following, is to be applied with Lint; but if you fill up the Nose with Cotton, a little above the Polypus, then you may gently blow it in with a Quill, and oblige your Patient at that time, not to draw his Breath upward through his Noie, but through his Mouth of the Polypus. Touch the place with the Iron three or four times, or all

Be Palo! Intestinor. Lupi 3i. Flor Balustian, 3ij. Lythargir. colli 3ii. Mercur. pracip. albe 9i. Cort. Austr. ppt. Bol. Armin. ppt. ana 3is. Aloes, Myrrb. and Dijls. Misce fiat Pulvis. We and it gammed most

If the Powders should not please your Fancy, and you think it might be better done by Liquids, then you may use that which follows, and I don't doubt but it will answer your Intentions. But first, let it stand about Eight days in a warm place, and now and then shake it very well, and when you use it, pour off only that which is clear, and let it be a little wards the Throat, but that the other Root went near the left Larraw wards the Eur While I was doing this, the Eye marered, was very paid-

B. Ceruf. lot. Tutia ppt. ana Zi. Alum. usti 31s. Merc. Sublimat. Diij. Camphor, Sacchar, Saturn, ana 31. Flor. Cinza Bijs. Aquar, Plantag. Ilun o Rofar. ana 3x. Mifce detur in Vitro.

the Painter from the Note towards him, as hard as the Patient was abid But here it is to be observed, That the Campbire must first be dissolved in a little Spirit of Wine, for otherwife it will not incorporate with the Waters. Now that the Chirurgeon may have his Choice of Medicines, and the what Form he pleases, I will also accommodate him with a Balfam, with which I have always had great Success, and whose Vertues I cannot winch Operation, it fereneed very kindly, and the Parise down oot slight Weeks come was periodily cured; the I fearehed no further after the

Be Vitriol, albi Merc. crudi ana Zis. Mercur. pracip. 3 ij. Aloes 31s. Misceantur & contundantur ad Pulv. subt.

who had much duch another I

All these are to be boiled in a sufficient Quantity of White Wine, in which has first been dissolved an Ounce of Myrrh, till all the Humidity of the Wine is quite evaporated and confumed; then add the following Species: Mel Persicar. Rosarum ana Zijss. Mix them all together upon a

the three le veral Ways of

gentle Fire to the Confistence of a Balfam, and apply it to the Polypus with a little Lint. This Balfam may be used with good Success in all Cafes where an Acid is requifited at at bas anogo to to yllaiongle.

Cure by a Mortificator. To cure this Difease with Forceps or Mortificator, the Chirurgeon ought to proceed in this manner: He must take special care to put the Forceps to the very Root of the Polypus, that he may be able to pinch it out at once, or elfe the Flux of Blood will hinder him from doing it afterwards and therefore he must not crush the Instrument together, till he is fure he has hold of the Roor, and then he will do the Work at once, and as it ought to be. I sould that out menotional be

Care by Can- nor The Cure by Cauteries, either Actual or Potential, ought to be enterprized after this manner: Take a Cautery made of Silver and Aqua fortis, apply it with a fufficient Quantity of Cotton to the Polypus, taking care by filling up the Nostril with Line or Cotton, that it does not flip from the place: Let it lie an Hour, then take it off, and apply a Digestive to the place where the Cautery lay, to separate the Crust; and if you perceive this Process will answer the End, pursue it according to Art. But if you have Reason to believe the contrary, then procure an Adual Cautery to be made of Iron, proportionable to the Size of the Polypus, with a long Handle, and a very thin Silver Pipe fit for the bigness of the Nostril, wrapt round with a fine Linen Rag wetted in Aqua Plantaginis. This Iron being made very hot, pull it through the Pipe till it reach the Root of the Polypus. Touch the place with the Iron three or four times, or till it's done enough; then proceed to Separation, and your Work is done. The Pipe is of very great Use in preserving the lower Part of the Nose from burning, if the Polypus grows very high.

History.

In the Month of March 1687. a Taylor came to me, by Name Chrifrian Shultze, about Twenty eight Years of Age, who had a very large Polypus in dis right Nostril, which hung out of the Nose upon the upper Lip, about the bigness of a large Muscadel Pear; which when I pulled towards me with one Hand, and with a Spatula in the other held down the Tongue; I could not only fee that one Root went behind the Vulla towards the Throat, but that the other Root went near the left Eye towards the Ear. While I was doing this, the Eye watered, was very painful, and against his Will, thut it felt as often as I pulled the Polypus, which certainly was a very strange Accident.

I proceeded to the Cure in this manner: First I caus'd my Man to pull the Polypus from the Nose towards him, as hard as the Patient was able to endure it; then coming to one fide, I put the Forceps or Mortificator into the Note as high as I could reach, and at once pinch'd off the whole Polypus, and brought it out; but the Root which was in the Mouth, I burned with an Actual Cautery three times, while my Man kept down the Tongue with a large and broad Spatula made for that purpole. After which Operation, it separated very kindly, and the Patient in less than fix Weeks time was perfectly cured; tho' I fearched no further after the other Root towards the Ear, because the other answered the End.

Hiftory.

dentie

Immediately after I was called to the Herr-Chanzeler V. H. of this place, who had much such another Polypus, tho' it did not hang out of the Nose, whom I undertook to cure in the same manner; but he being put under an Arrest at the same time, we could not proceed.

of the wine is quite evaporated and continued alice add the following

Mel Perfect, Reference and Sijls. Mix them all together upon a

a Can we and Placedone. The C. H. A. P. A. P. Sen the Oceaning Lord of the Oceaning Lord of the

ravely admits of a Cinca Thirdly, Thus Correspond, which is also called

Ozena, what it is, and why so hard to be Cured.

on this Head; and Mr. Ham Efore I proceed further in discoursing this malignant and re- An Ozenis. bellious Tumour called Ozena, I shall first rehearse the Opinion of that Famous Physician Dr. Le Conte of Bourdeaux, who in the Fourth Book, Entituled, Observationes Blegnica, has these Words: We now for feveral Reasons begin to conclude, That since we find Vicerations in the Internal Ductus's of the Head, and especially in the Ventricles of the Brain, that also the Ulcers of the Nose have their beginning there. And the Excellent Dr. Blegni having already espoused this Opinion, and published his Thoughts upon it, in his Incomparable Observations, Dr. Le Conte writ to him after this manner: In the Opening or Diffecting a Gentlewoman, who fometime lived in the Suburbs of St. Suvin in Bourdeaux, which was performed by Mr. Blondenet, Sworn Chirurgeon of that City, in the prescence of Dr. Lascous and Dr. Rongeards, I found she had an " Uleer in each Ventricle of the Right and Left Side the Brain, from whence proceeded the Ozena which the was forely afflicted with at the fame time. The same is also affirmed by Mr. Kellerin, a noted Chirurgeon and Lythotomist in Havre de Grace, who gives us several Instances of this kind, which are well worth our reading, especially in his Thirteenth Observation in the Ity Page. Thou about Four to brand bo

This fort of Whers do also sometimes proceed from a Hurt, occasioned by What an Ozera Fall, Push, or Blow in the Inside of the Nose, which after by the Patient's whence it procontinual picking of it with his Fingers, keeps it always Sore and Raw; ceeds. which at last, because that Part is always Moist, and by consequence subject to Ulcerations, it produces a True Ozena. A Morbus Gallicus pot throughly cured does also often cause this kind of Wicer, which the Mucofa Materia constantly issuing from the Head and Brain, contributes much towards its Sharpness and Extension, which lying in a spongy part of the Note it increases, and its Malignity at length seizes the Griftle of the Nose and the Bones, and sometimes rots away the whole Part under the Nose to the Upper-Lip, and renders the Edges utterly Callous. Now the longer the Patient has been thus afflicted, and the more ignorant they have been who pretended to cure it, the more difficult and uncertain is the Cure; because the Part is incommoded by a continual Flux of New and Ill Humours to the Part, which keeps the Ulcer always Running. It also often happens by long continuing, that it gets the Mastership to such a degree, that neither the corrupted Matter, nor the Breath can go through the Nose, but the peccant Humour must then, either spread further towards the Lip, or force its way backward upon the Pallate, Vvula or Throat to throw off its Malignity; which in truth is a miferable State. which not only perplexes the Cure, but often renders all Means ineffectual. Dr. Bontekoe in his New Treatife of Chirurgery *, reckons up Three Species * Part 3: C. of Malignant Vicers, which agrees very well with our Discourse in this place. The first Kind he calls Vicus Saniosum, from the abundance of Sanies and Moistness that accompanies it, which hinders the Healing, and renders all Medicines of no effect. Secondly, Vicus Putridum & Sordidum, which by long continuing grows so excessively Malignant, that it

Three Sorts of Malignant Ulcers.

L. 6.c. 8. ‡ L. 3.c. 24.

rarely admits of a Cure. Thirdly, Vlcus Corrofivum, which is also called a Cancer and Plagedæna. The two first Kinds are almost the same with an Ozena, and the third commonly follows, when the Ozena has been of fo long a standing, that it has got the Upper-hand, and rendred Medicines useless. Celfus * and Aginetta + diffinguish very well in their Discourse on this Head; and Mr. Hamel, Chirurgeon of Lizieu, in his Chirurgia, thews us how we may take our Measures, in order to know whether it is Curable or Incurable, by Five Indications, which ought to be well conthat Pamous Phytician Dr. Le Cerre of Bourdeaux, who in the Brishit

Indications.

1. From the Place, if already gone further than the infide of the Note. From the Causes, if from the General one, or intermixed with o-Internal Duchus's of the Mead, and openially in the Francies of the Brath

2013. From the Time, whether of long or fhort Continuance of olla sails betal From the Circumstances and Accidents that attend it. all tool sould

From the feveral Parts that are already Infected by it! and and Which wholoever thoroughly confiders and understands, may easily satisfie himself, if the Disease be Curable, and also whether Salivation will which was performed by Mr. Blandenet, Sworn Chirurgeon of clair disease,

Salivation.

Salivation bif early used, truly directed, and the Patient discreetly managed in his Flax, is an excellent thing in curing this Ozena, especially if the Body and the Ulcer be regularly prepared before-hand for this purpose. But if the Ozena is of a long Continuance, and has already infected feveral Parts, Salivation will not succeed effectually, tho' perhaps it may give Relief for about half a Year, or fomewhat longers allow llow one if

A good Friend of mine in this Town about Forty Years of Age, whom History. I pitied with all my Soul, and would have relieved, if it had been possible, was Twelve Years troubled with this Diftemper, had been under the Hands of leveral Physicians and Chirurgeons; was three times Salivated to the highest Degree, but all in vain. He lived a very Regular and Temperate Life, and strictly observed what was directed for his Health, but with out any Effect at all. Sometimes it look'd very well, and was healed up in the Year 1686, but in half a Year it broke out again; to that he only applied the last above-mentioned Unquent till he died, which happened about Two Years fince; but that which was most to be admired, was, That in all this time it had not infected the Bones, nor done any confider able Injury to the outward parts of the Nofe, tho' the Noftrils were quite flopt up with it. I urged him several times to have it Cauterized with an Iron made for the purpose, because he knew that by this means in the Year 1691. I had cured a Mitre-maker in the Hospital of All-Saints; but I could never perswade him to it by all the Arguments I nsed. He eat, and drank, and flept all the time very well, and it was to be lamented, that fo Good and Ingenious a Man, should endure fo much Misery from an Ulcer, and not submit to such Means, as probably might have cured wards the Lip, or force its way backward upon the Pallare, Duala ani

The Cure.

The Cure of this Malignant and Pertinaceous Vleer, confifts while it is young, in the Application of good Medicines, and if they have no Effect, you must proceed to Salivation; if that also fails, the Knife and Actual Cauteries must be used as far as you find convenient; and if this has no Success, all further Trials are in vain. Of all which Methods I shall treat in order, and first of Medicines, among which I recommend the Aqua Phas gædenica Muralti, which in the first Appearance of this Difease, is an admichan, which by long continuing grows to executively the anisibeMedian

B. Lixiv.

B. Lixiv. è Calce vivà 3x. Mercur. Sublimat. alb. 3s. Myrrbæ cum Spiritu Vini Solut. 3ij. M. fiat mixtura.

If you have occasion for a good Balfam to mundifie an Olcer, and temper the Acidity of the Matter, make use of the following.

B. Balsam. Vulnerar. Hanthii Zi. Terebinth. Cypr. 3vj. Balsam. Copieva 3 s. Balfam. vulnerar. Rulardi 3 iij. Ol. e Corticibus Betulæ 3 ifs. Ol. Fuliginis 3ils. M. f. Balfamus.

This must be always used warm, applied to the Part with Lint; and when it has fufficiently cleanfed and purified the Vicer, firew the following Powder into it.

B. Pulv. Intestinor. Lupi 3i. Fol. Quercin. Sabinæ ana 3is. Aristoloch. Longa 3v. Tutia ppt. 3iij. Sacchar. Saturni Antimon. Diaphoret. ana 3 Is. Mercur. præcip. alb. 3j. Misce fiat subtilissim. Fulvis.

Dr. Overkamp prescribes the following, as an Excellent Powder in this Dr. Over-

Be Ocul. Cancr. 3iij. Antimon. Diaphor. 3i. Sanguin. Draconis 3ss. Mercur. pracip. alb. Di. Myrrha 3ils. Misce fiat Pulvis S. ad V.

I will yet accommodate you with another Medicine, which will certainly effect a Cure, if the Olcer is first very well cleansed.

B. Unguent. alb. Camphorat. cum Ol. Amygd. dulc. fact. Ziij. Ol. Ligni Rhodi Hs. Plumbi usti, Tutia ppt. ana Sv. Lithargyr. coct. croc. Metallor. Lap. Calaminar. ppt. ana Bijss. Ol. Saturni q. S. Misce ad Unlometimes Exfecates, it not diffurbed by cont

You must also observe what is said in the Cure of a Polypus, and procure a good Physician to take care of the Patient's Constitution, that by cleanfing the whole Massa Sanguinis the Body may be brought into good Order. But if the Olcer is got to fuch a height, that Medicines alone cannot prevail, you must use the Knife, Salivation, and Actual Cauteries. It were to be wished, that the place was fit to use Incision and Cauteries; for then

we might fooner, and with less Trouble effect a Cure.

In February 1686. I had a Young Man in Cure, named George Friderick Historical Meyer, who came from Frawstadt, about Forty Years of Age, who had Observation been Six Years troubled with a filthy Ozena, which in the Increase of the Moon, especially in Autumn and Winter, would throw out abundance of Sanies and Matter; and well it might, for it had already infected the whole Space between the Nose and the Upper-Lip; and in the Wane of the Moon, changed to such a degree, that the Olcer was dry and over-grown with Scabs; which was wonderfully ftrange, and never known in any Patient before. In the Decrease of the Moon, it appeared in the Judgment of all Men to be healing up, but as foon as the Moon began to Increase, the Humours flowed toward it again, and put an end to former Hopes. However, I cured him in about a Quarter of a Year's time, by Salivation, and the Astual Cautery four times applied.

CHAP.

Noli me tangere, what it is, and how to cure it.

ven have occasion for grood Eatlanto

What it is.

HIS Disease at first seems to be but an inconsiderable Trifle, only a little Blue and Grey Pustula, seated upon or near the Lips, where it remains Dry, without Pain, and makes no Discovery what a dangerous Guest it is; but if you apply any improper Medicines to it, viz. such as are Unctious or Greafie, it will foon shew it felf in its own Nature, and convince you 'tis no ordinary Puftula, but quite another thing. When it is thus enraged, it foon encreases to such a degree, that if the Chirurgeon has not presence of Mind to stop it presently, it will fright and vex him fufficiently.

I have faid already, That a Noli me tangere is generally feated near the Mouth and Lips in the Partes Glandulofe, and in the Beginning looks very fimply; but when once it Opens and Corrodes, it ruines all the Parts about it; and if it gets the Upper-hand, grows in some Particulars worse than a Cancer, and cannot be cured either by Salivation, Incision, or Actual Cauteries: Therefore he that designs any thing to the purpose, he must begin betimes, before it grows too large, and has consumed the fleshy parts, for what is once loft by its Corrofive Quality, can never be restored.

From whence it proceeds.

No Author has politively determined from whence it proceeds; the general Opinion is, That it rifes from an Inveterate Scurvy; but this gives me no Satisfaction, for I rather think it proceeds from an Induration and Obstruction of the Glandules (like a Cancer in its beginning) to which adheres a Vitriolick Savour, and at last Putrissed Blood, and a Gnawing Quality which confumes all round about it; but how this Pultula can remain to long quiet without occasioning any Inconvenience, yea, and fometimes Exficcates, if not disturbed by contrary Medicines, is a great * Chirurgia 1. Question. Dr. Overkamp saies *, if the Glandules altered from their Na-4.c. 9. p.193. tural State, and their Cavities were narrowed by Obstructions, there would remain in the Glandules a sharp Vitriolick Liquor, intermixt with a Course Alkali, which in time would grow to a Cancer, a Schirrus, or a Noli me tangere. Dr. Morell, Chirurgeon of the Hospital de Dieu in Paris, and Dr. Overkamp are both of Opinion, That this Difease proceeds from the Scurvy; but after all the Pains they take to find out the Cause, I still retain my own Sentiments, That a Noli me tangere is a Glandulous Corroding Tumour, which Glandules growing hard by degrees like a Schirrus, at length become Moift, break open, and in time grow fo Malignant, that they ruin all the Parts that are near them.

About a Year ago, a Great Nobleman from Brig, committed himself to my Care who had a Noli me tangere near the Under-Lip, which two Chirurgeons of the same Place had given over as Incurable. They, it seems, could do nothing but Cut and Burn, which put him into fuch a Dread, that he applied himself to me, and I cured him in a Month's time, tho he had a very high Fever, of which Dr. Tralles also cured him.

In the Manual Operation there is not much to be confidered, if the Chirurgeon is provided with a good Incifion-knife, Prudence, Care and proper Astringents to stanch the Bleeding; for all the infected Parts must be cut away, till you gain a found Bottom, without regarding how the Pa-

tient will look afterward; for if a Part no bigger than a Lentil, should be left behind in the Flesh, all your Labour has been in vain, the Vicer will foon grow again as big and worse than ever. You are also to observe, That if you could not possibly come at it in every Corner, being hindered by the Teeth and Jaw-bone; and you have Reason to fear something may be left behind, which may produce a New growing, you must without delay proceed to Salivation and the Actual Cautery, with which these Places must be gently Touched two or Three times; and if this Method will not prevail, all you can do will terminate in an unhappy Disappointment.

In February 1690. a Nobleman from Grunall near Zohtenberge came to Observation 2. me, and Dr. Grassen, who had a filthy Noli me tangere, which had Rotted and Eaten away half the Under-Lip, and the left Corner of the Mouth; in viewing it we could eafily perceive that Outward Applications would fignifie little, tho' upon his earnest and repeated Requests, several Internal and External Medicines were employed Twelve Days together with all imaginable Diligence; but feeing they had no Effect, I began to cut it away in the presence of Dr. Tilish, Dr. Grass, and Mr. Hanss a Chirurgeon, which was well performed, but with a great deal of Pains. After this, for eight Days it looked very well, and every thing feem'd inclinable to heal; but then I perceived in the Corner, and also in the Middle of it, a little Excrescence about the bigness of a Pin's Head, which I burnt without further delay, with an Actual Cautery, twice after one another, which was also three times repeated in the same Week, but all in vain; nor did the Patient govern himself as he ought to have done. This made us fly to our last Refuge, Salivation, which was diligently begun and continued, but nothing would dispose it to Healing, and therefore might be truly called a Noli me tangere, which every Chirurgeon may observe in such inveterate Vicers; for do what you please, it fignifies nothing.

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Of Malignant and Spongy Excrescences on the Gums, and their

THESE Spongy Excrescences are generally found, where inveterate From whence Fistula's have rotted and spoiled the Teeth and Jaw-bone; for being they proceed: neglected, and the Filth and Nastiness not taken away; or if the Chirurgeon uses Corrosive Medicines, which in this Case are very improper, they cause Excrescences, which will increase, and grow more Malignant. Oftentimes they also arise from the ill Drawing of Teeth, in which the Jaw-bone is broke, and the Flesh about the Teeth is torn to pieces; then they sprout from the wounded Parts, grow every day more Obdurate, and become fo Large and Malignant, that they disfigure the Patient's Face, almost close up his Mouth, and by Reason of its great Moisture, will suffer no Medicines to lay hold of it, and so renders it impossible to be healed: As it happened to Mr. Nabel an Innkeeper in Ohlaw in the Year 1686. and to Mr. Johne an Apothecary on the Humermark in the Year 1688. who notwithstanding the Use of all proper Medicines that could be thought on,

if I cut away all the Flesh to day, in one Night's time theregrew as much

as was taken away the Day before.

The Care,

Therefore he that intends to cure these Malignant Excrescences throughly, must begin betimes with good Medicines, and if they will not prevail, immediately proceed to Incision and the Adual Cantery, by which Means I have cured many; but if there is Reason to suspect that the Maxilla is black and Carious, it must be diligently searched; and if you find it fo, cut away the Fungus, feparate the Carious Part, by Scraping of Cauterizing it with a hot Iron; and if that will not answer the Intention; you may ceale from troubling your felf or your Patient any further: Of *Ohl. 113. & which Monf. de Landes Baugrand *, Chirurgeon at St. Malo, has given us an Eminent Example in one which grew to fast, that whatever he could

use or invent, had no Effect.

Observation.

fequ.

In December 1678, I had under Cure a Boatswain of a Ship at Strablfund, where I was then Quartered, being Chirurgeon to a Brandenburg Regiment: He was about 36 years of Age, named Hans Peterson; he had a Spongy Excrescence on the lower Part on the Left Side, which happened by the Inartificial drawing of a Tooth, by which the Maxilla was Fiffurated. Having diligently examined and confidered the Parts, I spread the following Mass upon Linen indifferently thick, and applied it to the Fungus, renewing it every three Hours.

about the birmes of a Phis He R. Pulv. Cinam. Caryophill, ana 3 is. Coral, rubr. ppt. Rad. Pyrethr. ana 3 jls. Porcellan. ppt. Lap. Sillie. ppt. ana 3ij. Alum. crud. Ocul. Cancr. ana 3j, Sangu. Draconis Dj. Misce cum s.g. mell. Rosar. ad mass. formans.

This succeeding well in the beginning, I continued it, and also used this Water very often. The nosmonal of wave then

R. Rad. Tormentil. 3ij. Serpentar. 3j. Flor. Rosar. Rubr. Balaust. Lupul. Gland. ana 3vj. misce.

Boil all these together in Aqu. Cochlear, and Aqu. Salvie of each a Quart, and afterward add as much Alum to it as will render it indifferent Sharp: But if the Distemper is accompanied with any great Pain, then use the following Water.

An Excellent Dentrifice.

Be Rasur. Lign. Guiac. . Fol. Nicotiani Mjss. Rad. Pyrethr. 3ij. Caryophillor. Sem. Hyofcyam. ana 3j. Coque in J. q. Aqu. common. Colat. Adde Essent. Anodyn, Dij. vel Land, liquid. Tartaris Dij. Misce & Fungo applicetur.

This Excellent Dentrifice may be used in many other dolorous Infirmities of the Teeth and Gums, only applying it a little warm. It performed its part very well in this Patient, but yet it would not heal; which gave me Reason to think, that the Jaw-bone was Carious; whereupon I cut away the Flesh, and as soon as the Bleeding was stopt, it might easily be perceived; and having taken out more than three Splinters from the Jaw bone, I scraped and Cauterized it, and the Patient in Six Weeks time was perfectly As it happened to Mr. Nabel an innheeper in Chian in the V

to Mr. John an Apothecary on the Hentrand in the Year 1688, who

which I can hardly allow; the Lacknowledge it a gree Shame to those, that continue Oblinate in IIX iller And Detions after manifelt Con-

Ganglia, or Glandulous Tumours, their Difference, Caufe, and Cure.

HESE Tumours are very troublesome, disfigure the Patient, and Where they when they grow Large, Inveterate, and are leated about the Threat, are feated. are apt to hinder Respiration. This Place they delight in, because they can spread and enlarge themselves like the Fungi on Trees. Their Scituation is in the Glandules, which they stop up with a Thick Viscous and Pitui-tous Humour, and like Oedematous Tumours, settle so close, that it dries them up, and renders them Schirrous. They cause but little Pain, and very seldom come to Suppuration, tho' it sometimes happens when abundance of *Emollients* are applied. Dr. Overkamp faies *, That if the con- *Chirargia tained Matter grows Thin, and preferves its Motion, or some Heterogeneous 217. Matter mixes with it, it may by degrees come to Suppuration, but this fel-

dom happens.

The Ancients thought the Caufe of these Ganglions was a Pituitous and Ancient Opi-Viscous Blood; but if such Blood could become so very Crass and Viscid, nions resuted yet its Alteration could never produce such Obdurate Tumours, and of the same Colour with the Skin, but on the contrary. Others think they approach nearer the Truth, when they fay, the Matter contained in a Ganglion, is a Degenerated Succus Nervorum, which in time issues out like Drops from the Sinews, between the Membranes and Glandules, and there alters and grows into a large Tumour; but this Opinion has neither Reafon nor Possibility to support it; because such small, subtil, tender Nerves as are found thereabouts, cannot supply so great a Quantity of Liquor:

And therefore I say again, That they are Crude, Viscous and Mucilaginous truly ares Humours, which at first are not so very thick; but the Humor Lymphaticus which used to be orderly separated there, is at such a time more than ordinary Crude, Acid, and Viscous, that it cannot pass through its Glands as usually; but standing there, coagulates, and still increasing, fills up and extends the Glandules; for if the Lympha thus suffers an Alteration, and becomes sharp, Acid, and Gelatinous, it will grow to a hard Gypsea like Matter, as I have faid already, which according to Dr. Munnick's Opinion. is daily augmented by the Blood which continually circulates that way.

In more than a hundred Patients, it feldom happens that a Ganglion becomes Cancerous, tho' we have some Examples of it, and then the Case is deplorable and dangerous; but generally Men are mistaken, 'tis not the thing it felf, but fomething like it; as when the contained Matter is grown Corrofive, and afterwards by an Effervescence and painful Exulceration, it grows as Malignant and Vexatious as a Cancer in another Part; and all that can be collected from this Discourse is, that these Tumours are very Obstinate, Tedious in curing, require good penetrating Medicines, and as Dr. Overkamp * fays, in whole Particles is neither Firmentation or Motion; *c. 13. p. 223* but those wherein the Saline, Volatiles & Oleofe particula are so suppressed, that they cannot excite a Firmentation: which I mention for no other reason, but that every one may see how the Principles of Physick are advanced in respect of what they were in former dark Ages; and that about Ten or Twelve Years ago, I was of the same Opinion, which I acknowledge with Shame, if it be a Shame for a Man to confess his Ignorance,

which I can hardly allow; tho' I acknowledge it a great Shame to those, that continue Obstinate in their ill-grounded Notions after manifest Conviction.

The Cure of Ganglions.

Where they

The Cure of this Troublesome Malady, is often attempted, especially by Women, with abundance of Medicines which fignify nothing; under pretence of not disfiguring the Patient, which in the Conclusion is mere Fancy without Foundation. There are but two ways to cure them, and those are either by Medicines or manual Operations: The last of which I would not advise, if it can possibly be done without; for considering the Danger, Trouble, and Care which must be undergone, especially in Diffetting and Constringing the several Vessels which occur, and must be put out of the way; for the' Tumour is not very large at first, there is no trusting it will always continue fo; and if otherwise, then the Operation will be tedious and vexatious. The Learned Dr. Solingen in his Discourse of

p. 163. History.

*Part t. c. 54. Manual Operations * gives us an Example of it, in a Young Man who had fuch a Glandulous Tumour, and was Cut by an eminent French Chirurgeon Pierre le Francois, who compassionately acknowledged, that it was a miserable Operation, which he should always remember with Detestation of Cutting in such Cases; and therefore adviseth to employ Emollient Medicines; which in my Opinion ought not to be used in all Cases without Distinction: for I have known several unlucky Accidents have attended this Doctrine; as Generating Fiftula's, Incurable Vicers, and very often Cancers, which have brought the Patients to their Graves. But why Dr. Solingen should blame the French Chirurgeon Carias, and yet fays, that he himself opened such a Tumour with a particular Caustick, and that Monsieur Blegni having brought one to Suppuration opened it, and so spoiled the Part that it turn'd to a Cancer, I cannot imagine. Monsieur Month. obf. Blegni has also given us a wonderful Instance of such a Tumour *, which was

part 2. p. 59. accidentally burn'd with a hot Iron, and the great Fright it occasioned; though afterward voiding a large Quantity of Crass and Viscid Matter, the Patient was perfectly cur'd. Dr. Hagendorn in his Historia Medico Physica, has also described a notable Cure of such a Ganglion, to which I refer you; that I may proceed without further Digression to the Cure of these Tumours by Medicines, Exsections, and Excoriation, of which the Chirurgeon may make his own Election, with Affurance that the Medicines are approved.

The first Remedy is a Water to be Drank, which cures all Glandulous Tumours, and is kept as a very great Secret in Savoy, where these Tu-

mours are very common.

A Secret for the Cure of Ganglions brought from Savey.

Take an indifferent large Sponge, put it into good French Brandy, and let it drink up as much as it will hold; take it out, and put it into the middle of a Roll of Tinned Copper, and put on both sides the Roll as much Garlick as will stop up the Ends of it, and shut the Roll as close together as you can. Then put it into a very hot Fire, and let the Fire burn round it, and lie till you have reason to believe all that was put into the middle of the Copper is consumed to Ashes. Fut the whole together into a little Kettle with Sulphuris communi 3ij. and Aquæ pluvialis to v. mix them all together very well: Then take Twelve pretty large Flint stones taken out of a River, or such as have never been used before; put them into the Fire till they are Red bot, then put them into the Kettle one after another, and let them lie there

till the Water has done boiling; then take them out, and when the Water is Cold, and Filtred through a Brown Paper, that it may be clear, put it into Bottles, and cork them up very close. The Dose is, Two Spoonfuls early in the Morning Fasting when the Moon Decreases, and Two Spoonfuls more at Night going to Bed, and so continue till the Decrease of the Moon is over. And if the Tumour is not quite gone, begin again the next Decrease of the Moon in the manner above prescribed. This Recipe was communicated to me by Monsteur Bouches of Chamberi, who had lived a long time in Savoy.

Another Medicine to be used Inwardly is recommended to us by the The Abber Ingenious Mr. Blegni in the first Book of his Observations, which he says Gallet's Arcawas given him by the Abbot Gallet of St. Symphorian in Avignon, as a great Arcanum.

Take two bandfuls of Sage, boil it in a Quart of River-Water to the Consumption of half, strain it and mix it with one Pound of good Honey, and boil it gently to the Consistence of a thick Syrup. Take also two or three good Sponges or Fungi, Calcine them in a Crucible till they are through Red Hot and Fiery, then remove them off the Fire, but don't let it stand till it falls quite to Ashes, for then it loses its Virtue. Put it into a Mortar, beat into Powder, and add as much of the Syrup to it as will make it into a Mass for Pills; of which give the Patient two Scruples at Bed time, and order him to keep them in his Mouth under his Tongue till they are dissolved, and so swallowed; withall give him once a Week a Gentle Purge or Laxative, which must be continued till the Tumour vanisheth.

Means, as I have successfully used in my Practice; among which are the following Plaster, with which I have performed great Cures, by using it at the same time with the Inward Medicines above mentioned.

Re Emplastr. Diaphoret Mynsic. Zvi. Emplastr. Oxycroc. Zwelf. Emplastr. Dia Sulphur. Rulandi, ana zivis. Emplastr. de Ranis cum mercur. Vigon. Ziss. Sal. Lapid. Spongiæ ziij. slor. Salis Armoniaci ziij m. s. ad Emp. formam.

This excellent Plaster which also takes away Nodes and Bumps in a very short time, applyed twice a Day, the Tumour being first rubbed gently with a warm Napkin, will certainly cure it. Next follows an Ointment and a Plaster which I have used many times with very good Success. Dr. Dolæus in his Praxis Chirurgia Rationali has given us the Prescription of the Ointment in the following Terms.

R. Succ. Ruta Sabin. and 3vi. Squill. 3ss. Aqu. Vita 3ij Ol. Lilior. albor. Ruta and 3i. Ol. Costor. 3ij. Coque simul ad consistentiam rectam, adde Gumm. Bdellij in Spir. vin. Sol. 3iij Salis Armoniaci 3iij. Sulphur. vivi Lap. Pumicis, Nucis Cypress. Aristoloch. rotund. and 3ss. Euphorb. 3ss. Cera q. s. f. Unguentum. s. a.

The Plaster, Dr. Dolaus after Dr. Vimellerus, has described in this manner.

Dr. Urmuller's Ganglions.

B. Empl. Diachyl. Simpl. cum mucilag. 3ij. Mercur. vivi cum Saliva extinct. Buis. Mifce dilig. ad Empl. formam. put it into Bottle, and cork riem up very close. The Dife

The Cure by Exection if the place is convenient, is to have your Needles and Silk, or a strong Thread in Readiness, to stitch and tie up those Vessels which are in your way in the Operation before they are cut. Or you may make an Incision in the middle of the Tumour, where it's commonly fortest, about a Thumb's breadth, to let the Viscous Water run out. When this is done, endeavour to get out the other Matter, and if the Orifice is not big enough cut it larger, or make a New one; which Operation I very well approve of; for if it does not always answer your Intentions, yet the Patient is made fomething eafier by it, and being almost ready to be choaked, draws his Breath with greater freedom. However, I would not have you use this Method but when there is some Danger or other to be feared, or absolute Necessity requires it; but rather make use of the Medicines before recited. The is a good to stathand out she

Historical Ob. In March 1687, was brought a Countryman's Wife to me out of Florians-Dorf in Schweidnits named Magdalena Fabern, 48 Years of Age, who had a very large Glandulous Tumour about her Throat, fo that in the Night the could hardly draw her Breath, and was in continual Fear of being choaked. The first eight Days I gave her the Powder, and applied the Plaster described in my Chirurgia pag. 293. The Powder was taken daily half a Dram at a time in Turpentine Water, and the Plaster was spread upon Linen and applyed warm to the Tumour; after which it appeared something better, especially when the Moon decreased, and then I could eafily perceive that the Tumour was much more Flaccid than is usual; but when the Moon began to Increase, it grew worse again, insomuch that she could hardly endure to have any thing laid upon it. At last I made an Inciston into it about two Fingers broad, and found, after the waterish Matter was discharg'd, that which remained was very hard and like a Cartilage, which was the Cause of its Stubbornness; and makes me of Dr. Muraltus's * Opinion, that an Inveterate Glandulous Tumour was sometimes found a very hard and noisome Matter, which could be extirpated by no other Means than Cutting. Name I. V. Starte Starte Allahamel of

*Chirurgia, Oper. 2. p. 84: & Seq.

CHAP. XIV.

An Erifipilas, commonly called St. Anthony's Fire, what it is, and and no twoffol rest in how to Cure it. I don't an all a be

What it is.

* Chicurgia Part 1. C. 6. P. 397.

Am now, according to my Promise, to treat of an Eryspilas in the Face, where proper Medicines are most wanting, to hinder the Difease from spoiling the Beauty of the Countenance. Dr. Bontekoe * is of Opinion that an Erifipilas can no more be faid to proceed from the Gall than a Phlegmone from the Blood, and certainly is in the right, and that's the Reason our Modern Physicians dare make no such Difference and Distinction between a Phlegmone and an Eryfipilas, as the Galenists pretend there is. It's true that an Erysipilas is an Inflammation, but it does not proceed from the Gall, and differs much from a Phlegmone; for the former comes of it self, but the latter from a Contustion, a Hurt, Rheum, or some other Accident

Accident, and is neither fo Red and painful as an Erifipilas. There is also a Difference between a True Erisipilas and an Erisipilas Phelamonodes, which from its Inflammation is called a White Erifipilas, and Erifipilas Oedematodes, which is a proper Tumour in its felf, and not a Hot but a Cold one. From these Two proceed a Third, which being hard, is called Erifipilas Schirrhodes, of which I shall treat in its proper place. The famous Dr. Overkamp in his excellent Chirurgia comes nearest the Truth, and shews that there is only five things in which these Tumours differ one from another.

1. An Erifipilas is not so large a Tumour as a Phlegmone.

2. The Inflammation and Heat is greater in an Erifipilas, than in a rence.

- 3. The Pain in a Phlegmone is very Heavy, Pulfifick and Compressing; but in an Erifipilas, is more Pungent, Senfible and Biting, and yet more
- 4. An Erifipilas is of a very high Red Colour, and if you touch it with your Finger, the Redness vanishes, but soon returns, which it does not in a Phlegmone; for this Tumour may be pressed down; nor is its Skin so extended as in an Erifipilas.

5. A Phlegmone continues always in one and the fame place, but an

Erifipilas is now in one place, and by and by in another.

There is also a Difference in the Matter of which they consist; for an The Cause. Erifipilas springs from the Lymphatick Vessels in the Skin, and its Matter confilts of Lympha intermixed with Chyle: and a Phlegmone is compos'd of Flesh, Viscous and Chylous Particles ingendred and conjoined in the Veins and Arteries; hence it not only takes hold of the stan, but also of the Membranes and Muscles which are near it.

The Medicinal Cure must be set upon by Tempering and Attenuating The Cure the Acidity, which is stagnated, that it may be capable of Motion, and the Infensible Transpiration which was obstructed, may be restored to its pristine Operation; for which Purpose a repeated Sudorifick is much commended. The following Powder I use to strew upon the Erifipilas in the

Face, and have always found it beneficial.

B. Pulv. Levistici 3i. Sabin. 3ss. Ceruss. calcinat. 3iij. Bol. albi ppt. ana Biis. Cretæ ppt. 3v. Mastich. Oliban. ana Biis. Myrrhæ Bi. Tutiæ ppt. Farin. volatil. ana 3ils. Liquiritiæ. 3ls. Camphor. 3i. m. f. ad Subt. mich Fulv.

But if this is too troublesome, or you have not time to prepare it, you may use the following.

B. Farin. volatil. Biss. Pulv. Levistic. Bi. Cerufs. Bij. Bol. albi Biss. Myrrb. Oliban. ana 3iss. Camphor. Di. miseeatur ad Pulv.1 Subtil.

With this Powder you may proceed with the Cure, and it will answer your Defires; for certainly Powders are fittest to be used on the Face, fince Moist and Greafy Medicines never do any good in these Cases; and the like may be faid of Fumigations and Plasters, which raise Blisters, Pimples, and nasty Spots, without any Benefit at all. But that you may not depend upon these Medicines only, I shall accommodate you with more, and all very proper for this Disease; tho' I say again, Powders are the best. Stephanus

Stephanus Blanckard in his Chirargia, describes the following forus, which I have used my felf after the fourth or fifth Day, if any Pimples or Bli-Which from its Inflammation is called a White Exilipitar, barager eraft Dedematedes, which is a proper Lumour in its left, and not a Hot but a

B. Myrrha, Oliban, ana 31s. Cerufs. cum Spir, Vini lot. 3i. Libtargyr. Aur. all 3ij. Acet. Sambuc. 3xx. cog; Secund. art. & fiat Fotus, de zalighira mous Dr. Ocerkamp in his excellent Chirargia comes nearest the

Monfieur Charles's Ointment. Their Diffe.

Monfieur Charles Chirurgeon and Referendarius at Beaucaire, inflead of it, uses the following Ointment; which I have also employed very often in the Camp with good Success; not only in this but in several other Cases, where Drying and Discussive Medicines are requisite. In on I

Be Liniment. de Lithargyr. C. Ol. Amygdal. dulc. Nov. fact. 3iii. Tutiæ more a ppt. Cort. Austr. ppt. ana 31s. Ceruss. ppt. Biij. Ol. lign. Rhad gutt. vi. m. f. ad Liniment. form, A. An Erinpilar is of a very high Red Colour, and if you touch it with

* p. 684.

The Learned Dr. Muraltus in his Anatom. Collegium *, recommends a Fumigation of Cummin Seeds, and for a Wash Lixivium & Calcis vivæ cum s. q. Sacch. Saturni, but I have never tryed it. Dr. Munnick in his Chirurgia lib. 1. cap. 5. pag. 44. highly commends the following Unguent. is now in one place, and by and by i

B. Troch. alb. Rhasis. Tutiæ ppt. ana Sij. Lithargyr. 3ij. Cerus. 3ss. Flor. Sulphur. Dij. Camphor. Di. Ol. Rofar. Nov. c. Ol. Amygd. dulc. fact. 3iij. Ceræ alb. q. s. misce f. in mortario Plumbeo ad Unguenti formam.

And withal gives this necessary Admonition, to use no Repelling or Adstringing Medicines in an Erifipilas, tho' Resolvents were mixed with them, for fear of driving the Materia peccans towards the Eyes, Ears, Throat, or other noble Parts of the Head. It is the design and a double

Historical Ob- In February 1688, I had a Gentlewoman in Cure, Magdalena XC, Fourty fix years of Age, who had a violent Erifipilas in her Face, which having been fometime negligently treated by a Chirurgeon, who only for eight Days applied Cerus to it, in which time her Eyes, Nose, and Forehead were fo exulcerated and injured, that it grieved me to fee her in fuch a lamentable Condition, especially her Eyes, which were in a miserable estate, so that I, with the Affistance of Dr. Regius, who gave her Inward Medicines, had enough to do to Cure her in Ten Weeks time. By which you may fee what mischief such a wretched Repelling Powder may do in a large Eryfipilas on the Face; especially if besides it is negligently treated; for this Chirurgeon hardly came near her in two Days time. I knew one also that in this Case seldom did any thing, but only tye up some of that Powder in a Rag and dusted it upon the Face, as Nurses do when their Children are Raw or Galled betwixt the Legs; but what this could effect in an Erifipilas, may be eafily gueffed.

> like may be faid of Finnigurious and Playters, which raife Blifters, Pimples, .A A HOrs, without any Benefit at all. But that you may not de-

> pend upon these Medicines only. I finil accommodate you with more, and all very proper for this Difeale; the I say again, Ponders are the best.

> edvicts this Powder you may proceed with the Care, and it will answer your Debres; for certainly Funders are fittell to be used on the Labe, since Moill and Greaty Medicines never do any good in these Cases; and the

E Picus

As often as you afe this Oistment, let the other be wiped off, then afe in five or fix Usys together, and A H D upon the rougher fide of Cotton Cloath, apply it, to the Head, where let it continue the Days, then put is you of wood base cartiti tadm; head, based a ro, saniT which then puti is you of wood base cartiti tadm; head, based a ro, saniT which

have nafty corrupted Rotten Ro-HIS troublesome filthy Disease generally happens to Children, and What it is fometimes to Old People, if they don't keep themselves clean. At first its only a Breaking out, or a dry Scab; afterward a Ficaja or filthy Scald; then a Corrofive Scald, and at last an Hereditary Scald. At first they are but Pimples, or small Vicers in the Skin upon the Head, which are not apt to change their Colour very early, but at length grow Tellowift, moift, and throw out a sharp itching Sanious Matter, spread further, and render the Skin Rough, Uneven, and causes the Hair to fall off. At length they turn to dry Scales, under which are abundance of Holes, containing filthy Matter, fomething less Thick and Viscous, but is now more malignant with an Increase of Vicers, which at last grow Dry, Yellow, Greenish, Black and Nasty.

The Cause of this Discase is an Acid and Saline Humour mixed with a The Cause: Glutinous and Viscous Matter, separated from the Blood and Juices, and being drawn towards the Skin, lodgeth in its fmall Glandules, and raising an Effervescence, grow more Acid and Souer, and cause an Itching, which by

continual feratching spread further, and grow worfe. The beauty start

After the Patient is sufficiently purged, and his Blood cleansed, Out The Cure! ward Remedies must be applied to cure it: In which Applications Care must be taken that the Pores may not be obstructed or constipated, or the offending Humour repulfed from its regular Evacuations, from which often arife very dangerous Accidents. First therefore, make use of such Medicines as are fit to Open the Pores, to temper the Acid Humours, and rarifie the Glutinous and Viscid Matter, that so they may be cleansed and healed. Begin the Cure by Outward Means, in the Decrease of the Moon with the following Lixivium, with which wash the Patient's Head, and afterward dry it up with warm Napkins. Make a good Lixivium of Wood-Objection Ashes Eight Quarts, and in it boil the following Drugs half an Hour:

B. Fol. Alchimill. Mj. Rad. Lapath. maj. Zj. Heder. Arbor. Herb. Saponaria, Absinth. ana Mj. Sal. commun. Zij M. Scind. & cont. groff. M.

After the Patient's Head is well washed with this Lixivium warm'd, anoint it with the following Unguent. name and and with the Cure with the alone unguent.

into it, and caused their Heads to be worked with in B. Ung. de Lithargyr. cum Ol. Flor. Nymphee, fact. Ziiif. Tutiæ ppt. Lap. Calaminar. ppt. ana Biij. Ceruff. calcin. 31s. Vitriol. alb. Alum. with ana Dj.misce fiat Liniment.

precipit, alb. Jils. m. f. cum f. q. O. With this Medicine I have cured abundance of People; but if it does not please you, use the following in the same manner after the Lixivium.

Equence to be feared from the final! Quantity of Mercury in this Medicine; Be Unquent. alb. Camphor. Zv. Tutie ppr. Zjis. Ol. Tabaci, Aloes, and 3is. to the Head. After having applied this conflantly analym. J.M day for fome days together, I used the following Mass, applying it to the whole

As often as you use this Ointment, let the other be wiped off; then use it five or fix Days together, and if it does not accomplish your Defires, make the following Pitch-Plaister, spread it upon the rougher side of Cotton-Cloath, apply it to the Head, where let it continue three Days, then pull it hastily off against the Hair, to tare away the Hairs which have nafty corrupted Rotten Roots.

Re Picis Naval. 3vj. Colophon. 3jfs. Auripigment. Fuligin. Canin. Myrtha ana 3 ij. Tutiæ ppt. 3 iij. Pulv. Heder. arbor. 3 jls. Sulphur. 9j. Ol. Ovorum q. f. M. fiat medicamentum ad usum.

This must only be used in Inveterate Scald Heads, and when the Difease is at the higest pitch of Malignity; but when it is not so bad, apply the following Cerate in the same manner as the former.

B. Picis Naval. Ziiij. Fulig. Canin. Zj. Rad. Ariftol. long. Pulv. ex Ranis virid, and 3ij. m. f. l. f. q. Ol. Nucis & Tabaci ad Mass. form.

When this Mass has continued on about Twelve Days, take it off; wash and anoint it again two Days more with the above-mentioned Lixivium and Unquent: Then lay the Cerate on again, and continue it till it's perfectly cured. And when it is, wash the Head with the following Mixture warmed, for some time together, and it will cause the Hair to grow again, and preferve the Skin from being infected by corrupt Humours.

B. Tutie ppt. 3 ss. Myrrhæ 3 ss. Sacchar. Aluminis 3 ij. Camphor. 3 ss. Spirit. Salis Armoniaci 3j. Lixiv. dulc. 3xij. Myrrb. autem solvitur in Pauc. Vin. & Camphor. in Spiritu Vini m. f. mixtura serv. ad usum.

In using these Medicines, you will never have occasion to seek after others; for I have inferted nothing, but what I have used several times with effect.

Historical Observation.

In October 1691. I had Two Sisters in Cure in the Hospital, Anna and Dorothea Grofman, who for want of keeping clean their Heads, had both been troubled with the Tinea several Years, and to such a degree, that Dorothea had great Holes and very deep in the Pericranium, which in feveral Places were Black and Carious. In the other Sifter Anna it had fo far spread, that the whole Neck to the Shoulders, yea, the Forehead and Nofe was infected, which is so unusual, that I never saw any thing so bad before. I began the Cure with the afore-mentioned Lixivium, only I put more Salt into it, and caused their Heads to be washed with it Three Days together. and anointed it with the following Unquent.

By Unquent. Alabastrin. Zijls. Unquent. Nervin. 31s. Vitriol. alb. Sacchar. Aluminis ana 3j. Fol. Tabaci pubverisat. 3iij. Baccar. Laur. 3j. Mercur. præcipit. alb. Dijss. m. f. cum s. q. Ol. Tabaci ad Liniment. form.

Mercury may

a this Medicine I have cured Here I think my felf obliged to acquaint you, That there is no ill Conbe fafely used fequence to be seared from the small Quantity of Mercury in this Medicine; for no small Matter will have Effect in this Case, nor will it do any Injury to the Head. After having applied this constantly three times a day for some days together, I used the following Mass, applying it to the whole Head.

CHAR

It is always attended with Danger, especially in III Habits of Rody, but B. Picis Naval. 3vijis. Colopbon. 3jis. Folior. Tabaci pulverifat. Fuligin. Cummin, and 3j. Myerli Aloes and 3ij. Sal. Armoniaci 3jfs. misceatur of the fame Opinion. Scultetus in his Armentarium Chie.mallam baes, the

Largue stends is a prefent and perfect Remedy in great Swellings of the Having continued these Pitch Plasters above a Month, and cleansed Dorothea's Skull with Phlegma Vitrioli, and scraped it clean that the Flesh might grow again upon the Skull, I used the forementioned Water, and then every thing began to heal fo agreeably, that in eight Week's time they were both perfectly cured and other of selection of the others and selections of the selection of the select Neighbouring Parts, makes the Pallage to Narrow, that no Drink, and at

a Noble Remedy, for it prefently gives Vent to the Patient that was in danger of having his Breaty Kopt : qui A Hr De Danger fo much dreaded, it may be avoided by making but a finall Incifient which being care-

Laryngotomia, or the Opening of the Aspera Arteria in an Angina or Squinancy, or in other like Diseases, where the Patient is almost choaked or suffocated. Lamolrag ad or riguo nortrago adT be able, let him rife out of his Bed, and place him on a Low Chair

E W of our late Authors have truly described the Method of this Operation, for being in some Particulars a little troublesom and dangerous, and observing that many unlucky Accidents have attended it; the Chirurgeon cares not to attempt it, nor the Patient to suffer it; and yet after all, if this Operation is performed in a proper time, and with Care, Circumspection and Judgment, it is one of the most Noble Operations in Chirurgery, which often recovers the Patient to Life, when otherwise nothing but Death could be expected. Dr. Muraltus discourses it to my great Satisfaction * after this manner. Tho' faies he, the Chirurgeon * Chirurgia fears the Danger which attends this Operation, and the Patient the Suc- oper. 13. p.86, cess, yet it ought to be attempted, rather than leave the Patient destitute of all Relief; especially since we daily see so many great things performed by it, to the Chirurgeon's Glory, and the Patient's Comfort, who was in Danger of being choaked in a Squinancy. He also produces an Epiffle from the Honourable Moureau, to the Famous Anaromist Bartholinus Chirurgeon at Copenhagen, very much to the purpose. He that understands Anatomy, and is careful in the Operation, cannot easily commit a Fault, and may foon heal the Incision, because there is no necessity of making a large one, as I shall shew anon on son snot our sediment a smit

A Student in the Hospital of the Holy Ghost, desperately cut his own Historical Throat almost quite through, and yet lived Eight or Ten Days after it, Observation. had his Understanding, and would have recovered, if the Wound had not been fo large, that it caused him to breath with great Difficulty, and that his Meat and Drink run out at the Wound. More lucky was Monsieur de la Court, who in the Year 1674. was cut cross the Throat by John Moufin at Lowen, infomuch that the Afpera Arteria was cut in funder, but Authors Opihaving only a little Wound in the Oesophagus, was perfectly cured in Thir-nione. ty Days; which is a great Confirmation of the Truth of what we are * Chirurg. contending for. Dr. Solingen * feems to have no great Esteem for this p. 168.

Practice, and saies, It should never be undertaken but in the greatest Ex- * Chir. Man. tremity, and when nothing else will prevail. Licenciate Junken * saies, Sect. 2. oper.

Abaderstanding, was perfectly refevered from Death to Life

It is always attended with Danger, especially in Ill Habits of Body, but not simply Mortal, because if judiciously treated, it may be healed again. Schenkius, Lambowerdus, Henricus Henrio-ab-Heer, Vieussen and Rusch are of the fame Opinion. Scultetus in his Armentarium Chirargicum faies, the Laryngotomia is a present and perfect Remedy in great Swellings of the Throat, which otherwise would suffocate and kill the Patient, and there-Derothea's Skull with Phleyma Viboriroling Selection of the put of the protection of

bit have already faid, That this Operation is only to be attempted in a violent and deadly Angina, where by reason of a great Liftammation and Swelling in the Throat, the Uvula, the Glandulae Parotidem, and other Neighbouring Parts, makes the Passage so Narrew, that no Drink, and at length no Breath can get either in or out. In this Case our Laryngotomia is a Noble Remedy, for it presently gives Vent to the Patient that was in danger of having his Breath flopt; and as for the Danger fo much dreaded, it may be avoided by making but a small Incision; which being carefully done, all the dangerous Symptoms will immediately vanish, and the Inflammation be the better remedied: No great Bleeding will happen in this Place, and the wounded Part will be foon United. 10 (Vanamille

How to perform this Operarion.

The Operation ought to be performed in this manner. If the Patient be able, let him rife out of his Bed, and place him on a Low Chair that has no Elbow or Place to lean on; but if he cannot leave his Bed. bring it into the Light; lay his Head backward as much as you can, and let somebody hold it so fast, that he cannot move it: Tie his Arms to his Body with Towels that they may not hinder your Operation. By leaning his Head backward, the Neck will be stretched out, that you may more eafily see and come at the Fistula Pulmonis: Open it between the Third and Fourth Cartilago Anularis, or where else you think best, so it be about an Inch broad below the Cartilago Scutiformis. When you have marked the place with Ink, make your Incifion lengthwife towards the * Afpera Arteria and the Breast, with a good Incision-knife, but not too fharp-pointed. Then let your Affiftant draw the Lips a little afunder, that you may better see the Musculi Hyoides, and to separate them with the Handle of your Knife from the Afpera Arteria. This being done, make an overthwart Incition about the bigness of a Bean, in the Aspera Arteria; but have a care that you don't cut into the Cartilaginis Annlaris, but only in the Membrane, which ties them together. Don't fet on your Knife too hard, and hold it somewhat short that you may govern it the better. This being done artificially, place a crooked Pipe in the Opening, that the Breath may have free Passage out and in, as long as it is requisite; but be fure it's neither too long nor too short, and round at the end; for if it be over long, it will cause a Cough and Swallowing; and if too short, it will drop out again. The further part of the Pipe must have a fort of a round Brim, about which you may pull the Skin round, and fasten it with a good flicking-Plaster. When the Inflammation and Swelling is quite gone, pull out the Pipe, and draw the Skin and Muscles better together, and so heal it up. Having two Days before strewed upon the Aspera Arteria Pulvis Sarcocolla, apply Emplastrum Oppodeldoch till it is throughly healed. Anthony Opi-

History. In this manner I opened the Afpera Arteria in Mr. Christian Pfennig Manven a Linen-draper at Munden near the Wefer, in 1672. He was about 39 Years of Age, had a violent Inflammation and Swelling in his Throat, and was fometimes ready to be choaked. The Operation being as happily perform'd as could be defired, the Patient who had loft both his Speech and Understanding, was perfectly recovered from Death to Life. CHAP.

ritatem cognuntur. Either of these Two Medicines, if well prepared, will do the Work in an Hour or an Hour and half's time. Let the Correftue be as large as the Mark, ellikk app A Hd Officned on with a good thicking Platter. Thefe Corresponding be used in all Places, except the Eyes

Navi, or Natural Marks in Children of the Face, of other Parts one total of the Body, how they may be extirpated.

Easiest way of Coring these Navy, which may be performed, first with a EN ERY Body knows, that a fudden Susprize, a Fright, Stupefaction, Natural Marks or any emexpected frightful Accident, or vehement Defire in a Wo-how they man great with Child, does commonly to work upon the Imagination, as come. to Imprint the same Figure, which was the Cause of that Fright or Defire, upon the Body of the Fætus, which being in its Formation and Growth, has a Harmony in every Part with the Mother, and hence it is that the Mother's Imagination, with the Help of the Formative Faculty, has a Power upon the Infant, which like Wax, receives any Impression, and there delineates those several Nevi in the Shape and Figure that caused them, as of Fruits and other things, and fometimes prodigious and unnatural Representations; which tho' it be wonderful to confider, yet it shews the exact Sympathy between the Mother and the Child infomuch that wherefoever the Mother by chance lays her Hand, in fuch a Fright, Surprize, or Defire, the Child will certainly be marked in the same place, with the Figure of what was in her Imagination.

These Impressions commonly happen, as some affirm, in the Second or Third Month, and afterward in the Eighth 'and Ninth from the time of Conception; for in those Months they are neither too Strong nor too Weak, but liable to fuch Blemishes, and the other Months the contrary; But who can make such certain Conclusions from such intricate Premiles? But without troubling our felves in fuch Niceries, 'tis fufficient that we know they are, the' we are ignorant of the First Cause, and when they happen. The Cure and Expulsion of these News may be personned dis The Cure. vers ways according to the place of their Scituation, viz. either by Incifion, Correfives, Refirition, or the Application of Medicines. If it be only a Spot or a Fiery Mark, you must correct the Colour of the contained matter which causeth it, and so it will vanish; but this must be done in the first Month, before it has taken too deep a Root, if neglected in that time, it must be cured in another manner. Of all which particularly

and briefly.

In Cutting there is no great Ceremony to be used, for the Ingenious By Incision. Chirurgeon being furnished with proper Instruments and other Necessaries, agreeably to the Mark, its Scituation, and Figure, he will foon take it away. Some only take off the Skin round it, and to cure the Blemilh. In others you must go deeper, and when the Skin is taken off, you must allo difeuts the matter that lay under the Skin and caused the Mark Othere lie Itill deeper, and are inclosed in their proper Ciff, which must be first Excertated and then healed. These Circumstances must be diligently observed, and if you can't easily come at the Mark, besides Exection you must use Corrostves to exterminate it.

gentur ad Emple form.

Correfives are much in use in this Case, where Parents are unwilling to By Corresident have it Cut, or Chirurgeons are of Opinion that they can best cure it that way. The most proper for this use are either those made of Silver and Aqua fortis, or the Lixivium of Calx Viva & Faces vini, ad Lapidis du-

ritatem coquantur. Either of these Two Medicines, if well prepared, will do the Work in an Hour or an Hour and half's time. Let the Correfive be as large as the Mark, exactly applyed, and fastened on with a good sticking Plaster. These Correstives may be used in all Places, except the Eyes and Ears; but in those Places Restrictions and Ligatures are fitter to be employed.

By Restriction

Restriction, where it's possible to be done, is certainly the Safest and Easiest way of Curing these Nevi, which may be performed, first with a threefold Ligature of Silk, afterward with a double Silk Thread, and a last with a Horse Hair; by which Means, that which nourishes the Mar is areftrained, and the Mark may more cally be cut off and healed. any thing should yet remain of its Root, it may cafily be raken away. upon the Body of the Fietus, which being in its Forsugarro Inslanguarlyd

By Medicines.

The Gure by Medicines is fometimes effectual, but must be attempted in the first or second Month at farthest. It have cured several Children fix Weeks old, or thereabouts, with the fresh Blood of an Eeles after the Rele's Head was cut off, and then only rub the Child's Mark with its three or four times a day, and the Mark fuddenly vanished Wolf's Blood, if it can be had, will do the same; and as some say, the Secunding used in the same manner, or instead of them you may use the following Ointwhereloever the Mother by chance lays her Hand, in such a Fright, thom

prize, or Defire, the Child will certainly be marked in the fame place, or perize, or Defire, the Child will certainly be marked in the fame place, or sugar and single state of the control of the contr To bno fenicali 3ij. Flore Salis Armoniaci Dijum foad Linimenti formam, There Month, and afterward in the Eighth anthagen ivad nouple time

of Conception, for in those Months they are neither too Strong nor too Nurse's Child 26. Weeks old, who had a horrible fiery Mark on the under Lid of the Right Eye ; which the longer it grew , the bigger it was, and quite disfigured the Child. This Mark was very difficult, to come at because it reached as far as the Nose, and all over the Inward Corner. of the Eye upon the Glandula Lachrimalis; for which reason I applied the following Plaster always warm Morning and Evening for fix Days toge-Spot or a Fiery Mark, you must correct the Colour of the contained snadt

adt ni enob ed flum eidt und enfline liw ii of bas ii dielige deide vet telle Bi Cerat. de Mucilagen Sylviji Emplast. Diaphoret. Myns, and ziv. Em vislus plastr. Oxycroc. Empl. de Melilot, ana 3ij. Ol. Chamomille q. s. M. diligentur ad Empl. form.

there is no great Ceremony to be used, for the Ingenious By Incifica-After the Application of this Plaster, it grew to apparently Flaccid and foft, that I could pur a Ligature about it; which being done, and the whole Navus ty'd (except a little in the Corner of the Eye) with a double Silk, and at last with a Horse-Haire, which continuing so five or fix Days, it grew Putrid, and then was taken off. But that which was left in the Corner of the Eye, was not to be brought away in this manner, and therefore I took it off by degrees with a gentle Corrofive, and ly observed, and it you can't easily essew xin in orun and in bearing accomplished the Cure in fix Weeks.

you must use Correstues to exterminate it. Corresposs are much in use in this Case, where Parents are now lling to by Complete ye it Cur, or Chirurgeons are of Opinion that they can best cure it that: AAHIO most proper for this use are either those made of Silver and Ayen fortis, or the Lixivium of Cale Five & Faces visi, at Lapida de ..

CHAP. XVIII.

Hydrocephalos, or a Watry Tumour affecting the Heads of young Children; from whence it proceeds, and how to Cure it.

HIS troublesome Cold Tumour, tho'it's commonly without Pain, is what it is. very difficult to be cured. It feizeth the Heads of Young Children, and for that Reason is called Hydrocephalos, or Hydrops Capitis, a Dropsie in the Head, and indeed is nothing elfe, but a particular Dropfie containing Gelatinous Water, does not possess one particular place in the Head; where it rebut being Extravalated and wanting its due Circulation, seizes upon several sides. Parts of the Head; as Outwardly between the fleshy Panicle and the Pericranium; Inwardly between the Cranium and the Dura and Pia Mater, yea sometimes the Cavities of the Brain. If it seats its self in one particular Part or Side of the Head, it's eafily perceived by the Tumour, and the Water may be felt under the musculous Skin; but if it's under the Cranium between the Meninges and Ventricles of the Brain, it's hard to be found out, especially in Old People, whose Skulls are hard, and the Sutures firm and closely joined together; there the Cure is more difficult,

because it's hard to be come at.

This Hydrocephalos in Children, is generally a Hereditary Disease, pro- Its Causes, ceeding from an Infirm and Sickly Mother, whose Blood is very Thick, Cold, and Viscous, and if these give their Children Suck themselves that are in fuch a Condition, their Milk is no better than the Blood; and cannot be digested by feeble Stomachs, and consequently yeilds no good Nutriment; whereupon the Lympha grows Thick, Gelatinous, and Viscid; the Circulation flower and heavier, till at last it utterly ceases. When the Lympha is thus stagnated and deprived of its regular Motion, and has infarcinated the yet small and tender Lymphatick Vessels, which are unable to refift the violent Impetus of the continually approaching Water, but must be torn asunder; then the Tumour grows bigger, the Water takes more room, and becomes thicker by being deprived of its orderly Motion. In Elder Persons it commonly rises from an Indisposition of the Blood. where its Particles are unequally mixed, and the Acrid and Glutinous predominate. The ill Disposition of the Body is also another Cause of this Difease; for the superabundant Quantity of waterish and undigested Matter, which for want of a Passage downwards, slows towards the Head, like Water in a Still, by degrees causes such a Tumour. These Humours are of several kinds, tho' generally Viscous, and like Gelly. Dr. Munnick *fays it proceeds from an abundance of Watry Humours, not only in the *Chirurg. Head, but in the whole Body, which at length fettle in the Head and praxis l. r. c. cause a Hydrocephalos. Dr. Murattus is of Opinion *, that this Watry Hu-13 p. 92. mour ariseth in the Ventricles of the Brain, or between the Meninges, 12, p. 85. from their great Debilities and want of natural Heat. Dr. Overkamp af New Chir. cribes it to an ill and feeble Disposition of the Body, and the Stagnation I. I. c. 11. p. of the Lympha. Licenciate Juncken and Dr. Baux Physician at Nismes, 207. fay it proceeds from a Heterogeneous Matter in the Blood grown Acrid and Viscous.

Observations.

p. 47. Man, oper. part. 1. c. 34. p. 101.

The Cure of this Hydrocephalos is very difficult, especially if the Water lies under the Cranium, or between the Meninges; and you ought *1. 1. obs. 25. to be very Cautious and Careful in opening it, because the Patients seldom recover, if that Water is too suddenly exhausted. Dr. Tulpius * says, he had twice feen a Hydrocephalos opened, but the Patients both dy'd. Dr. Solingen does not approve it, and lays on the contrary, that fuch Openings have generally a tragical Event. Other Learned Men are of the same Opinion, and disswade all Men from attempting it. But if any Chirurgeon thinks himself under a Necessity to do it: Let him chuse a convenient Place, make the Incision as little as is possible, and not evacuate too much Water at the first opening; put a hollow Tent into the Wound, guarding it with Plasters, Bolsters, and a Ligature, that the Water may not run out but when he defires it should; therefore every time you dress it, let a Quantity of Water run out by degrees, lest your Patient grows too Weak, and languishes under the Operation. Sometimes the Chirurgeon is forced to Open feveral Places in the Head and Face, because the Water has possessed divers places round the Head, which makes the Case very bad indeed. Mr. Furmier Chirurgeon at Paris, in his Book of Bandages has a very necessary, and in this Case a very useful Ligature, which he calls De la Capeline, or Bandage à deux Chefs, which I recommend to every Chirurgeon. When the Water is evacuated, firengthen and warm the weak and frigid Parts, and and heal the Wound gently up again. This Hydrocephalos in Children

In the Cure by Medicines still begin with a Fomentation, which I have always observed to have a good Effect; for it opens the Pores, and rari-

fies and resolves the thickened Lympha to admiration. The dome of the same of

Dr. Doleus's Cataplasm,

B. Rad. Levistici, Calam. aromat. ana Sijs. Summit. Rorismar. Mij. Flor. Anethi Miss. Herb. beton. majoran. Salviæ, ana Mi. Sem. Cumini Fæniculi ana Bij Bacc. Juniper. Bis. Misce Scind. & contund. gr. m.

farcinated the yet imall and tene Boil these Species in half Beer, half Wine; strain it, and in it moistens thick Linen Bolsters, and apply them to the Place very warm. Continue this Course fix or eight Days, and then apply the following Carn taplasm over the Hydrocephalos, mon sair vincommon it snotred rebla al

where its Particles are upoqually mixed, and the B. Summit. Abfinth. Mj. Scord. marubij ana Mis. Abrotan. Mj. flor. Chamomill. Melilot. Sambuc, ana pug. ij. Concis, coqu. ex dicotto, earundam, Herbarum, ut consistentiam Cataplasmatis acquirat, adde, Farin. Hordei, Lini ana q. s. deinde adde Sal. Armon. depur. 31s Spir. Vini Camphor. Bij. m. bene f. Cataplasm. I Alarense out shoul lesevel to sie

* fays it proceeds from an abun-Dr. Dolaus who is Author of this Medicine, recommends it in feveral Desperate Cases, and chiefly in great Inflammations, Gangreens, Coagulations and Stagnations of the Blood and Juices. The following Ointment taken out of Forestus, has done me great Service in this Disease; to which I have added the Levisticum, Ruta & cherefekt oldest ban lli us os n esdiro

Forestin's Oint R. Pulv. Absinth. Rute, Levissice Cherefol, and 3ij Flor. Chamomil. Melinitem. Int. and 3iis. Ol. Chamomil. Anethen. and 3is. Ceræ alb. que. Misce for Unguentum.

The truc

Lamente L

Cartefius and Dr. Mumick do also much commend this Ointment. I have taken out half the Oil, that it might not be too Greafie, which I no way approve of in these Cases. But if according to the Ancient Cufrom, nothing will please you but a Plaster, take the following, or that of Dr. Mynsichtus, which are both very proper. from it, and cautes both

Be Emplastr. Diaphoret. Mynsic. Empl. Dia sulphur. Rulandiana, tbi. Refin. ij. Ceræ 3vj. Ol. Lumbricor. q. s. Sperm. Cæti 3ils. Baccar. Lauri. 3j. Dem. Cumin. 3ils. Caryophil. 3ijls. Gum Galban Bdellii in vino Solut. 3ifs. Myrrh. in Spirit. Vini Solut. 3j. m.f. ad Emplastri formam. from all others in feveral Particulars ; ins

This must suffice for the Cure by Medicines, of which I am morally certain that I have accommodated you with the best, having often experienced them my self.

In May 1690, I had in Cure the Son of the Chancellour, Mr. Herr. N. N. Historical Obfeven years of Age, who was troubled with a large Hydrocephalos. Dr. Jenish of this place was concerned with me in the Cure. First we applied feveral penetrating Medicines, especially the Caraplasm aforementioned, which promifed well about eight Days, but not continuing, we were forc'd to make an Incision in the lower part of the Lest-Cheek, out of which by degrees we drew a great Quantity of Water. The Patient recovered at that time, and continued indifferent Healthy above a Quarter of a Year; but in the Fall of the Leaf, the Water gathered again more than ever. The Cure was begun again in the same manner as before, and an Incision made, which succeeded for a while, but the Patient's Strength and Vigour fenfibly decaying, he died three Weeks after in lo sun on I case of sixtent leaft to my Satisfaction, for being a very tick

concerning it in the fixth Chapter, where I treated of Tumours in general; but fince it differs XIX from Ah H Dwill confider it more par-

been foad of attempting its Definition. I have

This Tumour chiefly proceeds from a Phiegmatick Fifein Humour, Ulcers and Tumours about the Eurs, called Parotides, what they and Correling and gramed to reure them and box of are derived by fies and caules an Ulceration, by the thin Pas running out at the Ear,

HE Ears are also obnoxious to several Accidents and Diseases, and if Paretides what of long Continuance, are very troublesome and prejudicial to the Hearing. Sometimes they are caused by outward Accidents or Hurts, fometimes by gross Humours, or the Reliques of the Small-Pox, a great Cold in the Head, and fometimes by the Application of improper Medicines. These Wicers, which continually throw out of putrified Matter, it not prevented, will in time grow very large Tumours, inclosed in their own Bag, and spread in Length, Breadth, and Bigness, with leveral Processes, as may be feen in the Historical Observation at the Conclusion of this Chapter. Chapter.

Now the it's intelligible by what I have faid already from whence Their Distance. these Vicers and Tumours proceed, yet we must consider them a little more particularly, because they don't always happen in the same manner, but vary according to their feveral Accidents. There Swellings are not reckoned of the fame kind with the Atheroma, but of the Steatoma, because their Matter resembles Tallow or Seam; nor do they always cease when they come to Suppuration; but the Tumour often increases to luch

. a Big-

a Bigness, especially in the Increase of the Moon, that you may easily perceive its Progress, and now and then the Suppuration returns, and serves to nourish the Tumour, as I have very often observed. Nor does the Viceration with its noisome Pus cause any Putrifaction in the Tumour, but rather grows with it, tho' abundance of Corruption runs continually

from it, and causes both an Ulcer and a Tumour together.

But that which is to be admired, is, that fuch Affects, which often continue Running and Growing three or four Years together, as I could shew in feveral Examples, and fmell worse than an Ozena, and yet should never injure the Drum or Tympanum of the Ear, so as to prejudice the Hearing. This Tumour also differs from all others in feveral Particulars; its Skin is more Tender and Senfible; its Flesh more Flaccid and Spungy; its Root like a Tendon, and tho' it has often several Cells and Capita like Fears, and grows so large that they hang a great way out of the Ears, yet they join in the bottom like fo many Stalks tyed together, in formetimes one, and fometimes two Roots, which are all hollow, tho' very small, and sometimes their Roots go so far, that the Patient feels exceffive Pain in the Depth of the Ear, and at the same time in the Corner of the Eye, and near the Gullet, if you pull the Tumour towards you; so that we may conclude, though the Root of the Tumour is to be searched for no further than the Tympanum; yet we may suppose it reaches as far as the Cranium, and towards the Eyes, Throat, Vvula, &c. And if fuch Patients lofe their Hearing either before or after the Operation, you may then conclude that the Tympanum has suffered by it, and had some Connexion or Union with it.

Tumours.

The true Cause of these Tumours are not yet discovered by any Author, cause of these at least to my Satisfaction, for being a very tickle Subject, none have been fond of attempting its Definition. I have already hinted fomething concerning it in the fixth Chapter, where I treated of Tumours in general; but fince it differs much from them, I will confider it more particularly.

This Tumour chiefly proceeds from a Phlegmatick Viscous Humour, intermixt with Chyle and Blood, which by being obstructed grows Acrid and Corroding, and gnaws and breaks the Veffels which contain it, putrifies and causes an Ulceration, by the thin Pas running out at the Ear as its nearest way, the thick Matter remaining behind in the Confiftence of Milk coagulated with Rennet to make Cheefe of, or like Seame, it first gathers outwardly to a Crust, then grows into a Skin, and afterwards as it waxes stronger, into a Tumour hanging out of the Ear, and if it has a sufficient Space and Nutriment, divides it self into several Cells, Manualis Chi. Which make as many Processes and Tumours. Licentiate Juncken * says

abe

this fort of Tumours proceed from some or other Tubuli, when such kind oper. 3. c: 7. of Humours are gathered and settled in them, and then extending the p. 28.
*1. 1. c. 9. p. Place, form more than one Domicilium. Dr. Munnick in his Praxis Chirurgica * fays, that these kind of Tumours consist of a Glutinous, Viscous, and Mucilaginous Humour, which being separated from the Blood and fettled in this of other Parts of the Body, and coagulated, according as they are mixed more or less with other Humours to make an Ulcer, divides it felf into Cells and grows larger. These Opinions, I think, come nearest the Truth, but I leave every Man to his own Judgment, being not without Expectation and Hopes that Time will produce a better Deaft they come to Supparative; but the Tumous aften increases consisted

Whatis

The Cure of this Vicerated Tumour, with all its Circumstances, I will discourse in the following Observation, which was attended with Variety of Accidents.

In August 1687. I had in Cure a Countrey-woman from Weide, a Vil-Historical lage about a Mile from this Town, named Rosina Grabners, forty fix years Observation. of Age, who had a large Tumour in her Left Ear, which was divided into three large, and two small Bags, and had been of three years standing. Before fhe perceived the Tumour, she was tormented above half a Year with a Violent Head-ach, especially in the Forenoon, and with an Inflammation in her left Eye, a Swelling in her Throat, and a great Inflammation on the left fide of the Glandula Parotidis. If I pull'd the Tumour a little strong ly towards me, it gave her great Pain, and threw out a great Quantity of Matter which stunk abominably; the upper Lid of the Left Eye also thut it felf up, and at the fame time fome Corruption came out of it. From the Throat near the Amygdala came an Ichorus Humour mixed with Spittle, and the Part was very painful, if any thing touched it. Now diligently enquiring into these strange Symptoms and Circumstances, obliged me to conclude, That the Root of this Tumour went as far as the Eye and the Amygdala in the Throat, which was a very unufual Spectacle. Dr. Tielish and Dr. Burg viewed it with me several times, but would not confent that I thould separate it by Incision, because the Root behind the Amygdala was very flender, and like a Tendon. As foon as I had fatisfied my felf, and her Body was prepared for the Operation, which was three Weeks after her coming to my House, I underrook the Restriction with a three-fold Silk, tying it about the whole Tumour as far, and as high as I could; having first ordered my Servant to pull the Tumour (being wrapt up in a Linen Cloath) towards him from the Ear, as much as posfibly he could; and the Restriction being performed, we let the Tumour fall back again. The same Evening I found the Tumour was grown very Brown, and somewhat Putrified, and on the third Day fell off without any more Trouble. After this I cleanfed the Ear very well with Lint, and what remained I took away with the following Powder, which was put into the Ear three times a Day . a mort sbesoon in first tA

Re Tutice ppt. Nibil. alb. ppt. ana 36s. Cort. Ovor. ppt. 3ij. Alum. ufti 3js. Mosch. ver. Ambr. ana gr. ij. m.f. ad subtilissim. Pulverem.

The next Day I separated that part of the Tumour which was near the Amygdala in the Throat, with an indifferent long Pair of Sciffers, which the Physicians here very much admired at. The Substance I cut out, was about the breadth of a Hand, Long, Hollow and very Nervous, which I could blow up with a Tubulus. The other part of the Root which went towards the Eye, I was forced to leave as I found it, because I could not come at it. The Woman returned home as cured; but in Fourteen days came again, complaining of a violent Pain in her Ears and Eyes; which nevertheless I cured, by making a Fontinel in her Neck, dropping two Drops of Oil of Origanum into her Ear, and letting her Blood in the Great Toe of her Left Foot.

proceeding from a Chalence Financial which becoming Adulf.

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sea lence faires, le comes nom a Chalarick Humour which emics Bliffingand a great frohon in the Field. Beverant to as A free week bind of R.

In singult 1687, I had in Quice a Countrey-women from Weide, a Vil-Hibriol

discourte in the following Observation, which was attended with Variety of Accidents. .XX . A A H O

The Cure of this Vicerated Tumber, with all its Circumflances, I will

Herpes & Porrigo, commonly called a Tetter, or a Ring-worm, the feveral Kinds thereof, and how they are to be cured.

the perceived the Turnour, the was formented above half a Year with a

What it is.

HIS Malignant and Corrolive Ulceration the Greeks call Herpes and Porrigo, not only from its spreading and diffusive Quality, but from its pernicious and destructive Effects. The Arabians call it Formica Corroliva, and the English, a Ring worm! There are two Kinds of this Disease; that which is young and not Malignant, is called Herpes Miliaris, because it only rises in little Blisters on the Skin like the Seeds of Miller: The other Kind is worse, and called Herpes Exedens, which making Erosions in the Skin, Flesh and Muscles, ulcerate further and deeper, and its Edges and Lips are difficult to be cured; for the it often seems to head up, it will not fail to break out again.

Two Kinds of them.

These two Kinds have almost one and the same Beginning, and differ but in Degrees; and therefore the Chirurgeon has nothing to do in these Diseases but to make his Medicines more or less powerful in Operation, according as the Malady is circumstantiated. The first only itches intolerably, and the other is attended with Pain and Burning from the Acidity and Sources of the Materia peccans. The first comes of it self, but the second is accompanied with the Scurvy, an ill cured Gonorrhea or Morbus Gallicus, and therefore requires a different and stronger Cure; nay, sometimes is not to be cured without Salivation. The first continues in the Skin without piercing much deeper, and only infects particular places; but the second seizes upon the Throat, the Gams, the Muscles and Cartilages, yea, and very often dissignres and spoils the Face.

Their Caufes,

The Cause of these Tetters is a sharp Saline Humour, with a great Acidity, and which of them predominates, are more or less Corroding and Malignant. At first it proceeds from a Stagnation of some Liquors and Juices of the Body, which being violently moved by other Liquors, cause a Fermentation; Push the subtile Particles into the Pores, which settling here, coagulate and become more Sharp and Acrid, till they have produced a Corrofive Uker. The Itching begins when the Matter is got into the Glandules of the Skin, whereupon the Acid and Saline Particles begin to move, and falling upon the Membranes, cause an Irritation of them. The Burning is caused by a great Quantity of stagnated Matter under the Skin, which being fent thither by the Glandules and Lymphaducts, cause a Fermentation and Effervescence, upon which the Blisters and Pimples open. and emit an Acrid Humour which makes an Erofion in the small Ranuli Venarum, and not only incite a greater Refluxion of Humours, but makes the Case more desperate. But let us consider the Opinions of the Ancient as well as Modern Authors. Galen and Cornelius Celfus fay, It proceeds from an Impure, Aerid and Bilious Blood. Pareus calls it a Tamour caus'd by a subtile Mixture of Choler, Flegm and Melancholy. Fabricius ab Aquapendente faies, It comes from a Cholerick Humour which causes Blifters and a great Erofion in the Flesh. Beverwick saies, A Herpes was a kind of Ervfipelas, proceeding from a Cholerick Humour which becoming Adust. rendered it intolerable. Johan. Andreas de Cruce, calls it St. Anthony's Fire.

Opinions of Ancient and Modern Authors.

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Donadeldach

Platter.

Cardilucius numbers a Herpes in its beginning, among Itches and Tetters, and faies, it is more Corrolive and eating than others; but in the whole, fings the same Song with the Ancients, That it proceeds from a great Humidity of the Blood mixt with the Sharpness of the Gall. Dr. Agricola, who commonly has something particular in all his Sentiments, says, This Disease was caused by an Acrid Mercurial Salt mixed with Vitriol, which corrupted the Humours, and so caused Exulcerations and Blisters.

Our Modern Phylicians, especially the Learned and Ingenious Overkamp faies in his Chirurgia, That this Evil was a stagnated Lympka, Juices and Blood. Dr. Munnick saies, It proceeds from an Acri-falinous Humour separated from the Blood, and seaves out the Acidum. Licenceate Juncken thinks it a Stagnation of the Circulating Liquors, which being hindred in their Natural Course by some Heterogeneous and Alterative Mixture. Dr. Blanckard calls it, An Obstruction in the Glandules of the Skin, caused by an Acid Pituita, that made small Tumours and Instammations, which spoiled the Skin, and filled it with Blisters and little Ulcers. From hence you may see how far the late Writers well-grounded Opinions differ from the Ancients; on which read Dolaus, who gives you the Opinions of the Galenists, Paracelsits, Helmontists, Willisians, Silvianists, and Cartesianists, and at last his own Opinion in the Case before us.

The Cure of this Disease ought to begin with gentle Laxatives and Su-The Cure dorificks prepared for that purpose, not omitting a good Decostum Lignorum, and the Use of the Balneum Laconicum, which by a Spirit distilled from Scorbutick Herbs and burnt, brings the Patient into a gentle Sweat, cleanses the whole Massa Sanguinis, and being repeated, tempers the Acrid Humours, and hinders their Flowing. The Patient must also observe a good Diet, live temperately, and observe every thing the Physician of Chirurgeon directs for his Recovery. The following Ointment spread pretty thick, Iuse to apply to the Edges and Sides of them, and have always found it beneficial.

B. Unquent, de Lithargyr, cum Ol. Amygd, dulc, fact. Ziv. Ceruff, calcinat.

Tutie ppt. ana Ziij. Croc. Metallorum Ziss. Mercur, precipit, rubr.

29. Carbon, tilia 3ij. m. f. cum f. q. Ol. Flor. Nympher ad Unquent.

formam.

But if it is already so bad with the Patient, that there are true Holes and Olcers, put the following Balfam warm into them three times a Day.

B. Balf. vulnerar. Hankii, Ziij. Balfam, dia Sulphur. Rulandi Zjs. Balfam, Peruviani de Tolu ana Zj. Ol. Petræ, Ol. Ceræ and Zij. Mastich.

3j. Aloes Zj. m. f. super ignem ad Balsam.

Having used this Balsam Ten or Twelve Days, or when you find the Ulcers are clean, use the following Water always warm, and apply it with Lint to the Elcers.

B. Tutiæ ppt. Cort. Austr. ppt. Ceruss. lot. ana 3 ss. Alum. ust. 3 ss. Campbor. Myrrhæ, Mastich. ana 3 s. Mercur. sublimat. 3 ss. Aquarum Rosar. Plantag. mellis ana 3 vj. m. Myrrh. & Camphor. solut. in pauc. Spirit. Vini.

Put

Put this into a Glass, set it in a warm Place, shake it now and then. and use that only which is clear, in the manner above-directed. If it should be too sharp, it may be moderated with Lixivium Calcis vive. Over these Medicines above-rehearsed, apply the following Oppodeldoch Plaster.

Oppodeldoch Plafter.

B. Emplastr. Oppodeldoch. Fr. W. to i. Stiet. Paracelf. 3vj. Lap. Magnet. ppt. 3ij. Mumiæ, Succin. ppt. ana 3jss. Rad. Aristoloch. long. Croc. Veneris metallor. ana 3j. Mercur. pracipt. 3iss. m. f. c. s. q. Ol. Tartari per deliquium fact. ad Emplastri confistentiam.

This Plaster is excellently good, and effectual in this Distemper; but if you should think it too costly, make use of the following, which I have often employed with great Benefit. It was presented to me by our Chief Physician Dr. Tielish lately deceased, who called it Emplastrum nigrum Petri de Castro. are Writers well-propoded Opini

Emplastrum Nigrum Petri de Caftro.

Pint

Re Lithargyr, sol. Subtilissim. pulverisat. 3vij. Ceruss. 3nj. Ol. Rosar. 3ij. Ol. Amygd. dulc. 3viij. Terebinth. puriff.3(s. Picis nigr.3ifs. Mastich.3ij. m. f. Emplastr. formam, S. A. or idous should aid to sun on I

This is one of the best Plasters in the World for Inveterate Olcers, if it be truly prepared after this manner: First boil the Litharge, the Cerus and the Oil, to a good Confistence, stirring it very well, lest it should burn; then put in the Wax and Turpentine, and when it's grown something cold, the Mastich very well powdered, and at last the Pitch (being first well melted in a particular Pan) stirring them well altogether.

Now feeing too much cannot be faid in this Case and its Remedies. I will insert another Prescription of a Balsam, a Water, and an Unquent, which I have experienced to have admirable Vertues in curing this Difease. The Balfam follows.

B. Ballam. Peruviani 36s. Copaiv. 31. Vulner. Rulandi 311. Lap. Prunell. Flor. Sulph. ana 3jis. Sacchar. Saturni, Mercur. precip. alb. ana 3is. m. f. Balfamus. Apply it warm with Lint. Make the Water as folshere disweth.

B. Summit. Absinthij, fol. Persicar. Alchimil. ana Mj. Rad. Aristoloch. long. 3ss. Aloes 3jss. Myrrh. in pauc. Vin. Sol. 3ij.

But if it is already to bad with the Patient,

Boil all these Species together in White Wine about the Space of an Hour, strain it, and mix the following Ingredients in Twelve Ounces of it.

Be Agu. Calcis viv. 3vj. Spirit. Sal. Armon. 3ij. Saccbar. Alum 3js. Mercur. sublimat. Dij. Camphor. 3j. m. f. Aqua s. a. digere per dies aliquot, Colatura servetur, & loco ulcerato calide applicatur. Next is the Ointment. Turia por Cort. Auftr. pet. Ceruff. for an

B. Unquent. Fusc. Zw. 3. Unquent. de Lithargyr. cum Ol. Amygdal. dulc. fatt. 3jfs. Ol. Levistic. cott. q.f. bene misceantur, & postea adde Tutia ppt.

ppt. 3j. Flor. Sulphur. Chinzæ, Myrrhe ana 3jss. Mercur. præcipit. Croc. metallorum ana 3j. Cort. Ovor. ppt. Div. m. f. Unquentum.

If none of these Excellent Medicines prevail, you can effect nothing

without Sabration, and the sooner you begin, the better.

In September 1690. I had a Printer's Wife in Cure, O. N. N. Thirty eight Years of Age, who had a Herpes Exedens, not only over the greatest part of her Face and Forehead, but also on her Knees and Elbows. I dreffed her constantly a Month together with the above-mentioned Remedies. I purged her very well; the was sweated four times a Week cum Spir. Vini in Balneo Laconico, and I gave her a good Diet-drink, but all to no purpose; for if it healed in one Place, it broke out in another. This forced me to make use of a Salivation; and tho' she was very Lean, and miserably Weak, the went happily through it, and in Six Weeks time was perfectly cured, and continues in Health to this Day. Let it be observed, that to raise a Salivation, I only anointed her Toes and Thumbs but Seven Times, tho' A Salivation the was broke out on the Arms and Legs, and yet the prefently began to by only anoint-Flux, and that very strongly; which a Chirurgeon ought to be very mind- Thumbs and ful of, especially in Old, Lean, and Emaciated People, for a small matter Toes. will do their Business. Some, I know, think it impossible to raise a Sali-vation without anointing all the Junctures in the Legs, Thighs, Wrists, Arms and Shoulders, and sometimes the Neck and Groins, which is a Rude, Barbarous and Unmerciful Treatment.

C H A P. XXI.

Malignant, and almost Cancerous Tumours and Ulcers of the Eyes, and chiefly in the Corners of them.

HERE is so little to be read of this Disease in Books, except in the Ingenious Dr. Overkamp's Chirurgia *, who treats it very briefly, *L. 2. c. 23. that I thought it very necessary to handle it more at large, with great- p. 410. er Exactness in all its Circumstances, and shew its Cure by Medicines and the Chirurgical Art, and how it differs from a Cancer, or a Noli me tangere.

This Malignant and Pernicious Tumour cannot prefently be faid to be How it differs Cancerous, because it has not the same beginning, as I shall declare in from a Cancer. the Second Book and Ninth Chapter, when I come to treat of Cancers in Womens Breafts; tho' it is allowed to be of the same Kind which we call Incurable and Cancerous. Nor do I say it will never turn to a Cancer, for Experience proves the contrary, and that it is very hard to be cured occasioned either by the Difficulty in coming at it, the Tenderness of the Eye, and the Parts about it, or the continual Afflux of sharp and pernicious Humours that feed and nourish it; more especially if Quacks or Ignorant Pretenders have had any thing to do with it.

It generally proceeds from an Indisposition of the Part it self, and is still more provoked and inraged by improper Medicines, till it grows worse and worse, and at last Cancerous; or that the continual Asslux of

Humours

Humours renders it Malignant: But if it proceeds from both these Causes,

the Consequence is very deplorable.

Its first Canfe,

At first it proceeds from an Erosion in the Glandules, attacked and altered by a Glutinous and Acid Humour, which causes Swellings, Inflammations, Pains, and at last settles in the Part; but afterward when the Influxed Matter is grown more Acrimonious in the Glandules, thick and coagulated; the small Conceptaculæ of the Glandules are obstructed by the Matter contained in them, which consisting of different Particles and Qualities, causes an Effervescence, takes hold of the Vessels, and puts the whole Member into an ugly and unnatural Figure. And indeed nothing better can be expected, since when the Glandulæ are Eroded, Dilacerated and Disordered, there must necessarily follow an Ulceration from the Esselw of that abundance of Matter they contain; which dissusing it self on the Neighbouring Parts of the Eye, especially on the Glandulæ Lachrimales, the Eye it self and its Tunicles, can produce nothing less than a Malignant and almost Cancerous Tumour or Ulcer.

The Cure.

In the Cure of this Disease you must first and above all things, endeavour to mitigate the Pain, and hinder the corrupted Humours from flowing to the Part affected; for which purpose the following Balsam and Water are in great Reputation.

Be Balsam. Vulnerar. Hankij 3ss. mell. Chelidon. inspiss. 3ijss. misce super ignem lentem, postea adde Essent. Myrrhæ3j. Aloes Dj. Sacchar. Saturni 3ij. Flor. Cinzæ3j. Tutiæ ppt. Sarcocolla ana 3jss. m. f. ad Balsam. consistent.

This Balfam laid upon Lint, must be put warm into the Olcer three times a day; you must also remember to put a good Quantity of dry Lint at the side of the Eye, to preserve it from being injured by the Medicine. The Water is made in the following manner.

R. Succ. Rutæ, Solani ana Zjss. Aqu. Rosarum, Plantag. ana Ziv. Tutiæ ppt. Ziij. Ceruss. lot. Sacchar. Saturni ana Zjss. Sacchar. Alumin. gr. vj. Troch. Ophthalm. Mynsic, Zj. Camphor. 3ss. m. f. Unguent.

If you think convenient, you may also use the following Lavament.

B. Fol. Rutæ Mjs. Alchimill. Theæ, Nicotianæ, Betonic. Salviæ ana Mj. Rad. Tormentill. Aristoloch. long. ana 3j.

Boil all these Species together for some time in half Aqu. Rosarum and Aqu. Mellis, to which you may add a Quarter of a Pint of Spanish Wine; then let it cool in a Vessel well covered, strain it, and add,

Aloes, Myrrh. and 3 iij. Mell. Persicar. Chelidon. and 3j. Sacchar. Cant. alb. 3jss. misce coqu. s. a.f. Lavament.

The Aloes and Myrrb must be first dissolved in Wine: It's also requisite to apply the following Plaster, but no larger than the Tumour, and the Lavament will operate the better. It's somewhat costly to make, but that it is not worth regarding, since you may depend upon it, that the Benefit will more than recompence the Charge.

By Em-

Be Emplastr. Antimonial. Angel. Salæ thj. Emplastr. e herb. Theæ Dolæi 3x. Emplastr. Diapampholyg. Mynsic. Dia Sulphuris Ruland. ana 3iv. Ol. Myrtin. Ol. Antimon. ana 3j. liquesatt. lento igne continuò agitando donec minirum omnia exactissime suerint mixta; remove ab igne, adde Pulv. sol. Tabac. 3j. Succin. Myrrhæ, ana 3jss. Flor. Antimon. 3vj. Croc. metall. 3ss. Mumiæ, Aloes ana 3iijss. Mercur. præcip. alb. 3ij. Magnet. Arsenical. 3ss. Camphor. 3ijss. misce s. diligent. ad Emplastr. sorm.

Dr. Dolæus's Plaster of Tea you may find in his Chirurgia *: The other * L. 5. c. 7.] are well known to all that converse in Medicines; but fince the first, de Antimonio Angeli Salæ is known but to few, I will give you its Prescription, as followeth.

Regul. Antimon. cum Aqua Plantagin. in Alcobel. redacti ziv. Refin. Emplastr. Antimon. Gum. Elemi, ana ziij. Galb. zs. Ceræ tbs. Gum. Ammoniaci timon. Angeli depur. ziijs. m.f. Emplastr. s.a.

I have added a little more Wax and Ammoniacum to bring it to a better Confistence. The following Balfam does mightily refist Putrifaction.

B. Unguent. Nicotianæ 3j. Ol. Tabac. Zís., Antimon. crud. Arsen. Crystal. ana Zij. Opii Zís. Camphor. Dj. m. f. Balsam.

If you think this too sharp, prepare the following, which I have often used in all Malignant and Cancerous Ulcers.

B. Decoet. Tabac. & Myrrh. in aqu. mellis this. Vini malvat. 3vi. Ol. è Cort. Betulæ Ziij. coque ad consumptionem humiditatis Vini, dein admisce, Sal. Saturni, Plumbi usti ana 3ij. Auripigment. Opii ana 3 m. f. L. a. Emplastrum.

If all these Medicines are unprofitable, nothing will take place but the Iron and a Restriction, if it be possible to perform it, as may be seen in the

following Example. In September 1691. a Countryman came to me from Weygelfdorff, 48 Historical Ob-Years of Age, who had fuch a Cancerous Tumour in the Innermost Corner fervation. of his Left Eye, of two Years Continuance. He suffered much, and had tried many Chirurgeons and Physicians to no purpose, for it still grew worle and worle; when he came to me it was as big a Man's double Fift*, and yet neither the Eye (fave only that it was covered with it) * Vide Tab 4. nor the Nose had suffered any thing considerable. After the Patient had Fig.2 been prepared by Dr. Regius, I made a Restriction as deep and high as I could, upon which it presently appeared something flaccid, and I could every day tiea Ligature deeper about it, which I repeated fix times; the Flesh still growing more foul and stinking; on the ninth day I cut it off without Bleeding, or any other troublesome Accident. To what remained behind and the bottom of the Olcer I applied an Actual Cautery, with which I thrice gently burn'd it. The Iron was made with a Cover of brown Silver, to prevent the burning of the Eye and Nose, after which it appear'd to be well; but in a Month's time I saw cause to burn it twice more, and then constantly applying Pulvis Ophthalm. Mynsichti to it, the

Patient

Patient in Eight Weeks time was perfectly cured, and lives in Health at this present time. By which you may see what an Actual Cautery can perform if carefully and rightly applied; for if this did not stop the Lymphatick Vessels which are corroded and eaten to pieces by Acrimonious Humours, and hinder their Lympha from flowing towards the Glandula Lacrymalis, to nourish and moisten that place, to such a prodigious degree, that it's the only thing which makes it so difficult to heal, certainly it could never be cured. Mynficht's Powder is also of excellent use in this Case, for it drys and heals incomparably.

CHAP. XXII.

Contumacious, Malignant and formerly Ill cured Ulcers about the

What they are.

LCERS in the Outward part of the Throat are more difficult to be cured than other Apostemata, for if they heal in one place they break out in another, especially towards the Ears, near the Jaw-bone, and below towards the Sternum. Such may be truly called Vlcus Dysepuloticum or Ulcus Fluxione vexatum; because a strong Influxion of Humours is the Cause of it. Hence it is that they will not easily be cured; for the Matter is too much, and the Flesh in those Parts so very spungy and full of Glandules, that they eafily hide fuch Humours in their Cavities, and by their continued Eruptions make one Hole or Ulcer after another.

From whence they proceed.

* Chirurgia Sett. 2. c. 2. pag. 114.

I have already faid in the Eighteenth and Nineteenth Chapters, that the chief Cause of all Olcers is Stagnatio Liquorum, which are ordained to Circulate, but by the Interpolition of Heterogeneous Particles, are obstructed and deprived of their Motion, and consequently procreate Distempers in the Parts where they settle. Licenciate Juncken * says very aptly to this Purpose; We are now well assured, that our Blood and Juices Circulate, and are in continual Motion, and that the Liquores Circulantes confift of several and different Particles, as of a Volatile Salt, or an Oily or Watry Substance, &cc. which are the whole Composition of the Blood; affecting the Gall, the Lympha or Succus Nervinus vel Nerveus, &c. which are all in our Bodies in a particular manner and fo wonderfully mixed, that they all make up but one Liquor, and that so Subtile and fluent, that it passes through the finest Ramuli & Fibræ of the Vessels, into the Flesh, Muscles, Skin, &c. Now when this well proportioned and equally mixed Liquor or Blood, happens by some Accident or contrary Matter to be any way molested, broken, or altered; then one way or other it becomes Thicker or Thinner than it ought to be; fo that sometimes the Volatile Salt. and Spirits are suppress'd, the Blood grows Flat and Vapid, and its vigorous Circulation being hindred, must necessarily stagnate, since it's unable to force its way through those small and tender Ramuli and Tubuli of the Body; and if once stopped, is not only a great Hindrance to that Part, but also prevents other Liquors from passing through, and forces some part of them to a stand. Now those stagnated Liquors raising a Fermentation by their fubtile Particles, which are in continual Agitation and Motion.

Motion, they extend themselves and prepare for a Flight; but encountring some Crass Particles, are driven back again. And these stagnated Liquors gathering Strength by Continuance and a Supply of more circulating Juices, at length the Matter becomes Acrid and Corroding, and wanting Room, by the Help of Impulsive Liquors, breaks its Vessels, and gets hold of all the Neighbouring Parts, Vessels, Flesh, Glandules, Skin, &c. which it invades by its corroding Quality, and Alters and stagnates all the Liquors they contain, and so prepares Matter for malignant Olcers.

This Stagnatio Liquorum, which, as I said before, is the Cause of these Olcers, may also be caused by a foul Contusion, or Relaxation of the Glandules, and if neglected, in time will grow to such malignant and pertina-

cious Ulcers as these are.

bogusdo

The Cure of this Malady ought to begin by rarifying the Stagnated Their Cure. Liquors, and correcting their Acrimony with gentle Sudorificks and Dieureticks, and by external Applications, endeavour to abate the Inflammation and Swelling, and mitigate its Pain before it is opened. But if it be already open, the Vicer must be cleansed, its Malignity meliorated, and large Bolsters applied round the Ulcers and Tumours, to prevent the Matter from Putrifaction, sinking deeper, and spreading broader, which will much retard the Cure. Monsieur Fournier, the French King's Chirurgeon in Paris, has an excellent Bandage or Ligature, which he calls Le Double Oeil Droit de Haat en Bas; but it must be tyed twice about the Neck in this Case, and below towards the Shoulders and Arms, it must be tyed harder than about the Head, that the Head may be more at Liberty. We shall only treat here of the external Cure, and leave the Internal to the Physicians. The following Cataplasm is intended to abate the Inflammation and Swelling.

Be Fol. Malvæ, Verbasc. Hyoscyam. Altheæ, ana Mj. Flor. Chamomil. Melilot. Sambuc. Malvæ hort. ana pug. ij. rad. Alth. Farin. Fabar. Farin. Orobi. Sem. Lini ana 3iss. Terr. Sigillat. 3ij. m. s. ad Subtilissim. Pulverem, & Coque cum Aqu. Flor. Sambuci vel Laste Vaccino ad Cataplasmatis Consistentiam.

Apply it warm to the Tumour and you will find it molifie the Skin, abate the Pain, and prevent ill Accidents; but if no ill Symptoms appear, and the Tumour is already open, you have no occasion for the Cataplaim, but must use a good Plaster, as that of Artaphanus, and apply the following Balsam warm with Lint a Fortnight.

By Unquent. Rubr. mei 3j. Balfam. Peruvian. 3j. Copaiv. 3fs. Vulner. Hankij 3fs. Emplastr. Stiet. Paracelf. 3ij. Terr. Vitrioli dilig. Edulcorat. 3ijss. Sacchar. Cant. alb. 3iij. Mercur. præcipit. 3j. Misce cum s. q. Terebinth. Cypr. ad Balf. form.

This being done lay the abovemention'd Plaster, or that of Crollius upon it, and because the Edges and Sides of these Ulcers are commonly much Instanced and Tumissed, you ought to use the Unquent. Lithargyr. mix'd with Tutty and Ceruss to the Sides of them. And when the Ulcers are Clean and the Balsam has done its Office, use instead of it the following Mixture.

History.

Be Decolt. Cort Betulæ 3ij. Agu. Veronic. Alchimill. ana 3j. Lixiv. Calcis viv. cum Sal. Armon. fact. 3iv. Sacchar. Saturn. 3j. m. f. mixtur.

Mix the Sugar of Saturn with the Decoction while it's warm; then add the Lixivium, and strain it per Chartam. If you had rather have a Powder instead of this Water, use the following, which is an incomparably good one, rengel but such a but will on will on a street above in

B. Pulv. fol. Quercin. Ziss. Rad. Aristoloch. long. 3vi. Antimon. diaphoret. 31s. Mercur. præcip. alb. Sacchar. Alum 31s. m. f. Pulv. ad and if neglected, in time will grow to fach matter. Bib. W pertina-

When every thing is duly cleanfed, and you have gain'd a good Foundation, you may use the following Ointment always warm, and so continue till your Patient is well; which you will feldom fail to do if you observe these Directions; but if they should fail, you must have recourse to Salivation, of which I have writ particularly in this Treatife, to shew

how the Patient is to bo govern'd under it.

In January 1687. I had an Advocate in Cure Chr. A. 34 Years of Age. who had many fuch Vicers about his Neck, which I constantly dress'd above Six Weeks together, with the aforementioned Medicines; but to very little Purpose; till examining him how he thought he came by it; he confessed he caught it of a Student, who was sometime his Bed-fellow ; Of which I believed what I thought fit, and so ordered the Cure, that he was well in eight Weeks time. The extens of the and sent yloo llarly The following Cataplain is intended to above the infamma-

Fol. Malace, VIIIXX INGVA HID, and Mr. Flor. Chamonil Melilot, Samber, Malva berr, and puy, if, rad, Alek, Fave Jubar

Cataracts, what they are, their different Kinds, and how to Couch them dexteroufly.

O know what a Cataract is, when it's Ripe for Couching, and to perform it Artificially, requires the utmost Diligence and Skill of the most Learned and Experienced Chirurgeon, that has seen it performed by some Curious Operator; it being one of the nicest Pieces of Art in the whole Practice of Chirurgery; which at once, gives the Oculift great Honour and the Patient his Sight. But if an ignorant and Clumfy Poaker is fo prefumptuous to attempt this Operation, What can be expected but his own Shame and the Ruine of the Patient? Therefore take Care and follow my Advice, that the Patient may receive no Injury, nor Chirurgery no Dishonour.

The various taracts.

When a Patient comes under your Hands, first diligently observe in Colours of Ca- what Degree the Catarace is; of what Colour; how long standing, and which is chiefest of all, Whether the Cataract is Ripe enough for Couching? To know this certainly, chew a good Quantity of Fennel in your Mouth, and breath three times into the Patient's Eye which is affected; let him that it close, and rub with your Finger very gently upon the Eye-Lids three or four Minutes, or till the Eye is well warmed; then let the Patient open his Eye fuddenly, and if the Cataract is remarkably Berost & changed

changed and divided, it is not ripe enough to be Couched; but if it does not change in Colour and Confiftence, then it is a Confirmed Cataract, and you may proceed to the Operation, if nothing else intervenes to hinder when, and it. Cataracts also vary in their Colours. Some are White, others Red, when not to Tellow, Ash-Colour, Green, Blue, and Black, tho' I confess, I never saw a be couched. Green or a Blue, and almost think it impossible there should be one. A Blow, a Fall, or a Bruife happening near the Tunicles of the Eyes, at first grow White, foon after Red, Ash-Colour, and at last look Black and Tellow, all which proceed from the same Cause, a Hurt. Now tho' the Cataract we are discoursing of, has a quite different Cause and Beginning, and being a Film or Skin cannot be exactly compared with the other, yet there is much Resemblance between them; as first it is a Muscilage gathering like Coagulated Milk, and therefore White; afterwards being mingled with Blood, it grows Red, proportionable in Colour to the Quantity of Blood which is imbibed. A while after it grows into a Skin, and appears Ash Colour'd and Tellowish, and then it's full Ripe; but if it grows Older, it turns very Tellow, afterwards Dark Brown, and at last quite Black, as thick as Leather, like a Horn, and so pertinacious that it cannot be Couched by reason of its Hardness. The Cataracta Suffusio, or Gutta Set Gutta Serena rena, as it's called, is a Skin growing inwardly on the Pupil of the Eye, what it is. which it covers by degrees, and grows all over the Tunica Uvea, that the Patient cannot fee through it. It takes its Beginning from a Glutinous Caufe of a Caand Viscous Matter, or Spissatio humoris Aquei, which by degrees be- taract. comes more firm, crass, and Glewish, till it comes to a true Skin or Tunicle, which is the true Cause of a Cataract. But to elucidate the Readers Judgment, I will give you the Opinions of some Learned Men upon this Subject.

The Ingenious Dr. Muraltus * fays, it's a Difease proceeding from a *Collegio A-Glutinous Matter in the Humor Aqueis, which growing to a Skin, hinders 45. p. 28. the Cornea from receiving the Beams of Light, which at first is called a White Cataract; and that which obstructs the Nervus Opticus is called the Black and Incurable Cataract. Licentiate Juncken * faies it is a Coagulati. * Chir. Man, on and Inspissation of the Aqueous Humour, which in a manner changes in- Sect. 2. c. 3. to a Skin. Dr. Solingen directs how it is to be Couched, but favs no- P. 238. thing of its Cause. Dr. Blanckard names but one kind of Cataract, only adds, that in the Beginning it was called Suffufio, and afterward * Catara * Chirurg. 1. 1. Ha; because in a Suffusio the Tubuli of the Humor Chrystallinus was ob- 6.8.p. 72, & Aructed, or at least so much injured, that the Beams of Light could not Authors Opiclearly pierce through, only the feveral Representations of Motes and Flies nions. feemed to Iwarm before the Patients Eyes. But in a Cataracta the Skin was more hard, and the Spiritus visivi could not pass through at all, and fo the Patient was deprived of his Sight. Dr. Cardilucius fays, a Cataract proceeds from a great Defluxion of Humours from the Head, and might at first be easily cured by Salivation. He that pleases may believe it. Thomas Fienus Opinion is, that a Cataract is a Membrane of a Cold and Moift, or a thick Matter intermixed with the Humor Albugineus, which by the Warmth of the Head, grows by degrees into a Skin. Dr. Stortia affirms that a Cataract is a thick and Glutinous Matter fettled between the Humor Chrystallinus and Rhagoides Tunica, and there grows to a Skin, which when it comes to be hard and perfect, takes away the Patient's Sight. Dr. Dolæus in his Encyclop. Chirurg. Rational. and the French Chirurgeon Mr. Lemeri in his Academ. Parisens, agree with Dr.

Muraling

Muraltus and Licentiate Juncken. To mention more Authors, I cannot judge worth my while, and therefore will apply my felf to the Operation,

which is more necessary for a Chirurgeon to understand.

First, Place your Patient where he may sit firm, and let his Eye be held fast with the Leaden Ring, your Fingers or a Ligature, that the Needle may pass into the Eye without any kind of Hindrance, and the Operation be the better and surer performed.

Secondly, Take care in putting in the Needle, that you don't hurt the Tunicle, or any thing in the Eye, for if you do, all your Labour is in vain, the Humours will run out at another place, and the excessive Pain will

hinder you from Couching the Cataract.

Thirdly, When your Needle is well entred, make what hafte you can to press down the Cataract gently; least by often removing the Needle forcibly up and down, you cause an Inflammation and Pain, and endanger the Loss of your Patient's Eye.

Fourthly, Let your Needle be a slender one, something Bended and Broad at the Point, that you may not make too great a Hole in the Conjunctiva, and that in turning the Needle you may take the better and

furer Hold of the Cataract to separate it.

Fifthly, Thrust not your Needle too far into the Eye, nor turn it too quick and hastily; but proceed gently, that you may prevent any ill Ac-

cident which might happen in the Operation.

Begin the Operation either in the Spring of the Year, or the Fall of the Leaf; for the Summer is too Hot, and the Winter too cold to do it in. The Room must also be Light, the Day clear, and the Operator and the Patient both very fober. I mean that they have drank very little; for the Stomach being empty, and the Head undisturbed, the Oculist's Sight will be clearer, his Hand more steady, active, and unwearied, which I thought fit to mention, by reason of a Missortune that lately happened to two Persons at Newstadt, the one a Clothier, the other a Watchman, who both lost their Sight, by one that was otherwise a good Oculist; but being something in Tears, would always drink a Glass or two of Wine, which he thought made his Hands more steady; but he was very much mistaken, as the ill Event proved. Your Needle must also be made with a good Handle and a Button on the Top, that you may better govern it. The handle must be about four Inches long, and the Needle two and a half. Some will have their Needles made of Gold, Silver, Steel, or Iron, agreeably to their own Fancies; but I make use of one of Steel, not too much hardened, and if necessary, I Guild it about a Finger broad at the Point, and order it to be very well polished, that I may see it shine thro' the Conjunctiva, when I put it in, and for the better governing it afterward. The right way of fetting on the Needle may be feen in the fourth Table, Figure 3.

The Patient's Body being well prepared for this Operation, by convenient Purging, and Strengthening the Head and Eyes, and all things being in Readiness, chew Fennel in your Mouth, breath into the Patient's Eye, and if you use the Ligature, order him to turn his Eye something outward; but toward the Nose; if you use only your Fingers or the Leaden Ring. In the mean time, the other Eye must be shut up close with a Bolster and Bandage. The Operator must seat himself upon a Chair something higher than the Patient, and opposite to him, putting his Knees and Legs between the Patients, with Cushions; tying them close together that the Pa-

tient cannot move them; whilst your Man holds the Patient's Head fast to his own Breast. The Parient's Hands must also be tyed fast to the Chair with Towels, that they may not hinder the Operator. This being done; if the Cataract is in the Left-Eye, take the Needle in your Righthand; and if the Cataract is in the Right-Eye, take the Needle into your Left-hand, and put it a small Straws breadth from the Outward Ring of the Pupil, into the Conjunctiva, always Oblique, and so far till you see the Point of the Needle comes to the middle of the Cataract. Afterward proceed higher upward, as far as is requifite, turning the Needle gently about, and so roll the Suffusion downwards with the Needle; but take care that you don't press upon the Ovea; but roll or depress the Skin quite downwards, and hold it down for some time, to prevent its rising up again. If the Cataract should be fastned at the Top, you must endeavour to loosen and separate it neatly, and afterwards depress it; but if there be no need to separate the small Fibra of the Cataract, which sometimes fastens it to the Vvea, you are happy, and have but half the Pains to take. If it should happen otherwise, you must first loosen it, by turning the Needle, and then moving the Needle backward and forward, as in a manner cutting, separate it and then depress it. When all this is done, hold the Cataract down with the Needle for half a Minute or thereabouts. Then pull the Needle a little towards you, and if the Cataract does not rise again, pull the Needle gently quite out of the Eye; and with the other Hand, immediately press some moistened Tragacanth or Sarcocolla Powder: Or as I commonly use, a Piece of Gold Leaf directly upon the Orifice or Hole that was made in the Conjunctiva, to hinder the Running out of the Aqueous Humour, and to heal it up again. Dr. Solingen mixes a little Saffron with the White of an Egg, and lays it on the Hole of the Eye. Then thut up the Eye-lids, and over them the first Day, apply thick linen Bolsters dipt in the White of an Egg mixt with Rose and Plantan Water warmed, and upon that again great Bolsters over both Eyes: And for a Defensitive, apply the following Mixture, always warm and well shaked together.

B. Rutæ, Feniculi ana 3j. Aqu. Flantagin. Solani ana 3iij. Tutiæ ppt. Sacchar. Saturni 3j. Sacchar. Cant. alb. 3ij. misce detur in Vitro.

Some let the Bandage lie constantly upon the Eye Four or Five, yea, Nine Days together, and keep their Patients to fuch ftrict Rules, that they must eat no Beef, Mutton, or any Flesh-meat, and lie continually on their Backs in a dark Room, that no Light may come to their Eyes, nor will they allow the Patient to move or ftir, or hardly speak; but keep them like Prisoners in Chains. For my part, I allow my Patients to speak as much, and as often as they please, provided they don't make too much Noise in talking; they may also eat and drink what they have a mind to, and may lie on their Sides when they are weary of lying on their Backs. If on the Third or Fourth Day you find any Moisture upon the Eye-lid, you may conclude, the Hole which was made in the Conjunctiva, is not yet healed, and therefore must apply to it a small Piece of a Silver or Gold Leaf, or what elfe you think convenient, but as gently as is possible; and continue the afore-named Method for Ten Days more. Then open the Eye leifurely, view it well, and if it looks Red, you need not trouble your felf about it, for it's nothing but a little Blood

mixed with the Aqueous Humour, and fettled upon the Tunicle of the Eye, and will foon vanish of its own accord. But if it should not go off, put the following Powder Three or Four times a day into the Eye, and it will foon disperse it. of sales, each Lot sit is the total dy and if the Cotorall is it the Right-Eye, take the

Mynsicht's Ophthalmick Powder.

B. Pulv. Ophthalm. Mynf. 3j. Sacchar. Saturni 3ss. Vitriol. alb. pur. gr.j. Sacchar. Cant. alb. Troch, Nihil. alb. cum Opio ana 3fs. m. f. ad subtilif. Needle comes totale middle or, the Calmerougle terwant higher unward, as far as is requifite, turning the Neather gently

Every time this Powder is blown into the Eye, let the Patient keep it

thut till the next dreffing.

observation. Que In the Year 1675. a Soldier in Captain Bobreus's Company in General Gotzick's Regiment, came to me for Help, who had a Cataract upon each Eye, whom I purged sufficiently; and having cleanfed his Head, gave him a Cordial every Morning for fome time together to strengthen it. Then I treated him in every Particular according to the Method already prescribed for Couching Cataratts, in which I succeeded so happily, that the Patient recovered the Sight of both his Eyes, and continues to do his Duty. Here I will only further observe, That it's necessary you provide your felf of a Round, a Cutting, and a Sharp Needle, fomething bended, blunt and pointy, as your Operation requires; you must also be provided of a good Incifion-knife to cut the Conjunctiva to make an easier Entrance for your Needle into the Eye, as is directed by those two Famous Frenchmen, Greffeteau at Chauteaudun and Schmaltfii at Leyden : Besides which, all our best Authors agree, una voce, That the Cataract must be taken hold of at the Top, and so gently depressed by degrees. This is the safe Way, but if others have contrary Methods, I leave them to their own Li= berties, and fliall only add what I forgot before, viz. That you anoint your Needle with Oil of Sweet Almonds, before you put it into the Eye; tho' I confess, I use nothing but my own Spittle.

CHAP. XXIV.

How to separate other External Skins of the Eyes.

HO' I once resolved to say nothing of the Eyes in this Book, purposing to write a particular Treatise on that Subject, and call it, The Careful Oculift, yet at the Request of some good Friends who prevailed upon me to alter those Resolutions, I will treat of them in this and the Two following Chapters, I hope to every one's Satisfaction; and therefore having done with the Skins in the Inward Part of the Eyes, I will now discourse of the Outward.

A Web in the And first of the Web called Pterygium, Ungula deponenda, or Unguis vel Corner of the Pannus membranofus; which is a Nervous White Kind of Skin, beginning in the Corner of the Eye adjoyning to the Nose; but afterwards, if not timely prevented, spreads it self over the Adnata and Cornea, till it has blinded the Eye. Cardilucius is * of Opinion, That this Pterygium does firmly adhere to the Adnata, but I never found it so in all my Practice, but always

* Tom. 3. c. 119. p. 658.

always loose, the of a long standing, and fit to be taken off: Nor did I ever see a Black one, which he mentions, but always Reddiffe, Ash-colour, and something Tellow as it grew older: In the two last Colours they are fit to be separated, which may easily be done by a diligent and active Hand.

Nor is there a Necessity of making any Difference in this Pterygium, it Necessary having but one fort of Skin, and almost one and the same Cause; the stinctions. Dr. Barts makes many, and ascribes to every one a particular Cause; but he is much in the wrong: For Men of Sense and Experience only make this Difference, viz. That which is White and Thin they call Ungula or Pterygium; and that which is Thicker and intermixed with Blood, proceeding from injured Veins, and looks stelly, they call Pannum, or Unguis membranosus; and when all is done, these Distinctions signific nothing to the Cure, or serve any other End but to embroil the Chirurgeon: Therefore let him only mind whether the Web is Thin, New, White, Red and stretched over the whole Eye; or whether it is Thick, Old, Fleshy, Ash-colour and Yellow; because the first may be cured by Medicines, but the other can never be taken off but by Manual Operation.

The true Cause of this Film or Web, is chiefly a Disordered and De- The true Cause vastated Lympha, proceeding from a Hurr, or an ill Constitution of the of it. Lympha it felf, whose thicker Part settles in the Glandala Lachrymalis, where growing Hard, Crass and Viscid, it forms the beginning of this Web. and is not only caused by the Lympha which refides in the External Parc of the Eye to affift its Motion, but that also which is in the Aqueous Humour, which coagulating grows by degrees more Glutinous and Viscous, till it produces a true Skin, which always begins, as I have faid already, in the large Glandula near the Nose, and at length covers the whole Eye. Blanckard rehearles * several Internal and External Causes of this Difease, * Chirurgia but especially Inflammations, Soreness of the Eyes, and a Disordered Lym-Part 1. cap. 91 pha, which growing Acrid and Sharp, corrodes the Parts thereabouts, P. 86. and by degrees causes this Excrescence. Muraltus * thinks it proceeds * Colleg. April. from a Faulty Perioftium, which caufing an Inflammation, the Tears Lett. 45. p. grow fo fharp, that they tare the Glandula Lachrymalis, and then the 412. Succus Nutritus runs out; which Coagulating and growing hard, in time grows to a Web. L. Juncken faics *, This Web deduces its Original . Chir. Man. from a Viscid and ill-constituted Lympha, which is not only found in Obf. 2. p.250. the Humor Aqueus, but also outwardly in the Thin Glandules of the Eye, which fettling there, produces a Web. George Bart fb *, and Dr. Vopifens * Chirurgia Fortunatus Plompios are of Opinion, That it's caused by a Viscous Matter part 8. c. 1. which falls from the Head, and fettling upon the Eye, at last grows into P. 218. a hard Skin; but what this Viscous Matter is, or of what it confifts, he makes no mention, and without doubt Bart h was ignorant of it himself; for if that should be true, how many Men would be troubled with Webs over their Eyes, which being neglected, would foon be blind. Fabricius ab Aqua pendente * faies, This Pterygium is a Nervous and Glutinous Mem- * Chirurgia brane which has its Increment from the finall Veins of the Blood, which pare 2. c. 20, afterward may be eafily feen in the Web when it grows bigger; for then P. 64. the Veins also increase. Paraus * saies, It proceeds from a Defluxion of Hu- L. 16. 6.14 mours into the Eyes, but not a Word What, or of what Kind those Hu-p. 532: mours are. Johannes Andreas de Cruce * calls it a Coagulated Humour *1.3. c. 6. distilling from the Brain. Johannes Jesserius * will have it a Crass and *Chirurgia Glutinous p. 136.

Glutinous Matter which causes it, but saies nothing how, or from whence this Matter came, with whom I conclude; for to enumerate all the Old

Erroneous Opinions, would make a Volume.

The Cure by Medicines.

The Cure must begin with good dissolving Medicines, or if already very Old, and the Web grown Thick, it must be taken off by the Chirurgeon's Hand; of both which I will discourse at large. Among the rest of Celebrated Medicines, the two following have the Preheminence: The first is my own, and the other borrowed from the Famous Frenchman Le Febure, and is called his Blue Eye-water; both which are to be put into the Eye blood-warm, and with fine Linen Rags applied to the Eye Over-night.

Re Aquæ Papiri to vj. Vitriol. Cypr. is. Croc. Oriental. 3js.

The Author's Paper Water.

This Paper Water is made by boiling Ten Sheets of good Fine White Paper in Aqua Cyanorum, till all the Paper is dissolved; then filter it through Brown Paper and boil it again with the two other Ingredients, till a third Part is confumed; strain it again, and add,

Amygdal. amar. no. viij. Aloes 3 jss. Croc, metallorum 3 ijss. Carvophilor. Dij. Tutiæ ppt. 3jls. Sacchar. Cant. alb. 3jls. Campbor. 3iii. Spirit. Vi-Part fettles in the Gladel Tacific in

The Camphire, Spirit of Wine and Almonds must be first very well beaten together in a Stone-Mortar: Then fet it in a warm Place, stir it every day with a Wooden Spatula; and being well settled, use that which is clear, by dropping it warm into the Eye. If you think it too weak, you may add a little more Vitriol to it; and if you would have it more Gentle, add more Sugar-Candy to it. Febure's Water is made in this manner.

Le Febure's Blue Eye-Water.

Be Agu. Chelidon. majoris per fermentationem ex tota berb. parat. tbj. Agu. Flor. Cyani. tbss.

Pour these two well-distilled Waters upon a great Piece of Calx viva, three Hours after filter it through a Paper, and add to the Colature, Phelgmatis Vrinæ cum Vitriol. alb. destill. 3iij. Salis Armon. depur. 3ss. Mix them all well together, pour it into a Brass Bason, and beat it with a Rod an Hour together; or pour it into a Glass with some Filings of Brass, and beat and stir it together with a Rod, as before. Then let it stand till it becomes Blue, strain it through Paper, and use it as above-directed. Dr. Coschwitz and L. Juncken have each of them a Blue Eye-water that much resembles this. If you think a Powder will be of more Service to you, use the following three or four times a day, by blowing it into the Eye with a Quill.

Be Lapidi Scifil. Pumicis ppt. Pulv. Ophthalmic. Mynfic. ana 3jls. Matris perlar. ppt. 3vj. Sarcocol. 3jis. Sacchar. Cant. alb. 3j. Myrrb. Aloes and 3j. Vitriol. alb. calcin. & edulcorat. 3ij. m. f. Pulver.

Formers Andrew de Cense " calle et a Coa

from the facility followers described to below it a first

When you have blown this Powder into the Eye, let the Patient keep to list will his Eye shut a Quarter of an Hour, that it may operate the better. L. Juncken is of Opinion, That if the Waters are too weak, the following Powder would be more effectual; and I have the fame Sentiments. ed fome fmall Veins very first, which made it look very flrange inde

B. Off. Sepiæ, Fabæ marin. ppt. ana 3fs. Sacchar. Cant. albi 3j. Salis Armon. 3j. Vitriol. albi Dis. Pulv. Sarcocol. Tutice ppt. ana 3jis. m. f. ad Subtiliff. Pulverem? in our outbetgmente niev ni bad irroyol bas little, but as last nothing at all, which one would hardly have believed,

What I have now discoursed concerning Medicines appropriated to this Difease, I think sufficient; for if these will not succeed, it will be in vain to try others, and therefore you ought to take it away by Manual Operation, after the following manner. I wo I cut in nogural of smit d

Place your Patient to the Light, and in all other Preliminaries treat The Cure by him as afore-directed in Couching a Cataract. Keep the Eye-lids open with Manual Opeyour Fingers, the Leaden Ring, or Speculum Oculi, described by Scultetus *.* Armentar. This being done, take hold of the Web with a neat and flender Forceps, Chirurg. Table just in the middle of the Pupil of the Eye; pull the Web softly with 31. Fig. 8. p. your Left Hand from the Eye, hold it fast in that Posture, and with your Right Hand put the Crooked Needle threaded with a double Thread between the Web and the Adnata; then take hold of both ends of the Thread. and lift up the Web with it. When this is done, separate the Web very gently with a crooked Incifion knife or Lancet, beginning in the middle, and fo going on to the Glandula Lachrymalis; instead of the Knife, if the Web is thin, you may do it well enough with the Handle; but take Care when you separate it, that you leave nothing behind, nor hurt the Eye. especially the Glandula Lachrymalis, for then there would certainly follow a continual Flux of Tears and Lympha, and oftentimes Fiftula's. Thus separate it from one side to the other, and quite round about, till you are quite ready. If the Blood should hinder the Operation, let one be ready to wipe it gently away with a foft Sponge: And when all this is exactly and artificially done, drop a little of the following Collyrium into the Eye, and also wet the Lid with it. sisted or boold simil a bolines just upon the Papilla, others on the other fides of it; but those that

Your Be Aqu. Faniculi, Chelidon. ana 3j. Sacchar. Saturni 3j. Tutie ppt. ni antimorajis. Grec. metallor. Dis. Margarit. ppt. gr. xv. mifce fiat Collyto tender a Parts. I hade apors, the they feldem firetch chungelves to far

as to cover the whole Pued, yet they hinder the true Representation of It would also be very requifire to moisten a thin Piece of Leather or Linen in it, as large as the Eye, and apply it between the Eye and the Eye-Lids just upon the Eye, and let it lie two or three Days constantly upon it, which will both heal, ftrengthen the Eye, and prevent the growing of the Eye-lids to the Eye, which too often happens, cipecially if any Error was committed in the Operation : You must also apply some of it over the Eye-lids, and order your Patient to move them now and then. Some Practitioners, instead of this Mixture, use Oleum Saturni, or as Dr. Solingen, Scultetus, and Doctor Schmaltz, Aqua Ranarum cum Saccharo Saturni mixta, which is almost the same; and therefore I leave every one to his own Election. In this Method let the Operator continue till all is con-

to the deprayed Conflitution of the Lympha, which at such a since is very theen, there, and also somewhat Facrified, and configuratly may eatily

cause

fervation.

Historical Ob. In August 1689. I had a Soldier of the Red Company in Cure, who was about Thirty fix Years of Age, and troubled with fuch a Skin on the Left Eye, Ash-coloured, and full of Fibres, which were to curiously interwoven together, that it looked like Mullin, and here and there appeared some small Veins very Red, which made it look very strange indeed, and would have led any Chirurgeon into an Error, that had not been used to such Cases, especially since it had been of Four Years standing, and several had in vain attempted to cure it. Sometimes he could see a little, but at last nothing at all, which one would hardly have believed, because the Web was then very fost of tried to cure it by Medicines above a Fortnight together; but feeing they availed little, I took it away one clear Morning by Manual Operation, in the presence of Mr. Tobias Jacob Hans a Chirurgeon in this Town, exactly in the fame manner as is above-directed, by which the Patient recovered his Sight in a very him as alone-directed in Cauching a Cataract. Neep the Eye-lids smitt most vone Fingers, the Leaden Ring, or Speculina Or L. deferibed by Sculvetus * . 4 Am

Right Hand put the Crooked Needle threaded with a double I hread be-

your Left Hand from the Eye, hold it fall in that Poffure, and with your

This being done, take hold of the Web with a nest and flender Forceps, Coiver, the middle of the rupit of the Eye; pull the Web foldy with

and lift up the Web with it. When this is done, separate the Web very Of Spots and Specks in the Eyes, and the Chalazion Hait and to going on to the Standard add no snot read of the stante, if the Web is thin, you may do it well enough with the Landie; but take Care when you separate it, that you leave nothing behind, nor hunt the Eye,

Their Colour

Pots and Specks in the Eyes are fometimes fo pernicious and hurtand Schuation. I ful, that they not only hinder the Patient's Sight but also very much disfigure the Eye; and if they are large and inveterate, give the Chirurgeon a great deal of Trouble in curing them. They are generally White, and in the beginning look like a Piece of Coagulated Milk, and fometimes are also Red, if by any accident a small Vein has been broken, and caused a little Blood to settle in one part of the Eye. Some are seated just upon the Pupilla, others on the other fides of it; but those that possess themselves of the middle, are most difficult to be taken away; because the Chirurgeon dares not use such sharp things as are requisite in fo tender a Part. These Spots, tho' they seldom stretch themselves so far as to cover the whole Pupil, yet they hinder the true Representation of the Objecta vifibilia, which the Patient strives to see, because the Rays cannot fall directly into the Eye, being hindered by the Interpolition of Eye-Lids just upon the Eye, and let it lietwo or three Days contatoq2 sels

They first fettle like a Cloud upon the Pupil of the Eye, for that Part being rough, fuch kind of things more eafily fettle there than on the Their Causes. Parts that are smooth and slippery. They proceed from a corrupted Lympha mixed with some few Drops of Chyle, which extilled from the Glandula Lachrymalis, and by the Motion of the Eye is pulled forward towards the Pupilla, and its extreme Tunicle, which being rough, it adheres to it, and fettles every Day more and more ftronger and want

These Spots are very often found in the Eyes of Children after they have after the Small had the Small Pox, which cannot be attributed to the fame Caufe, but to the depraved Constitution of the Lympha, which at such a time is very keen, sharp, and also somewhat putrified, and consequently may easily

cause such Spots, the Eyes being sometimes shut up whole Weeks together by a Glutinous Matter procreated by the Malignity of that Nauseous Distemper; but let that be as it will, you must first satisfie your felf whether the Spots or Specks are large, and fettled directly upon the Pupilla; for then you must take them away as soon as possibly you can, for the longer and larger they grow, fo much more difficult will the Cure be, as I shall shew more largely, when I have discoursed a little about Pimples and Warts that happen on the Eye lids, with their Difference, Cause and Cure.

The Eye-lids are incident to feveral Accidents and Infirmities, as Fim. The Variety of ples, Blifters, Warts, Small Tumours containing Pufs of Matter, the Cha-them. lazion or Hail-Stone, and Hordeolum or the Barley-Corn, which at first may easily be brought to Putrefaction, and so opened and healed; but there are others that appear like small Tumours, and tho they cause but little Pain, yet are so contumacious, that neither Emollients, nor the strongest Penetrating Medicines will have any Effect upon them; but

they must at last be exected like the Atheromata.

Verucæ or Warts are also very obstinate, and root very deep into Warts upon the Eye-lids, yet by a good Touch Water, Restriction or Incision, they the Eye-lids, may be eradicated, as I have experienced in several Operations, and shall have Occasion to speak more largely of anon.

shall have Occasion to speak more largely of anon.

To cure Spots or Specks in the Eyes, you must in the beginning Cure of Spots treat them with the following Water, or Mynsicht's Pulvis Ophthalmicus, with or Specks. which I have always had good Success. The Water is thus comway afterwards with the abovementioned Powder, being blown into the

R. Decott. Rad. Chin. in Vin. Malvat. 3ijs. Agu. Verben. Ruta, Euphrasie and 3j. Chelidon. Svj. Faniculi 3s. Aloes pur. Croc. metallorum and gr. xxv. Succin. ppt. Diss. Vitriol. alb. Dis. Camphor. gr. iv. coquantur igne lento sæpius agitando, donec omnia exallisme succin. exactissime suerint mixta; remove ab igne, coletur liquor per Chartam, ferveturque.

The Ophthalmick Antimonial Water of Dr. Muraltus which I have very often used with great Benefit, is that which follows.

Be Vitr. Antimon. fubtilissim. pulverifat. vel Croc. metallorum 3ij. Dr. Muraltui's Rad. Ireos Flor. 31s. Caryophill. arom. Num. iij. omnia bene pul-Water. verisentur, & postea aquis sequentibus misceantur, Aqu. Euphras. Fænicul. Rutæ ana Bij. digerantur mixta omnia per decem dies,

This Water is in very great efteem for its peculiar Vertue in curing Spots or Specks in the Eyes, if it be carefully dropped into them Three or Four Times a Day, the Water being always first made Bloodor it may be touched with the following Water; or if the Eye be miny

Mr. Blegni in his Observations gives us an excellent Prescription of dentleman of Ulm's Eye Water.

Agua Spermatis Ranarum with Sacebur. Saturni ready to be applied, inthere mould be occasion. The Water follows. The Gentleman of Ulm's Eye Water.

none Six Dr. Murghuis

B. Vini albi generos. Aq. Rosar. opt. ana thij. rutæ fæniculi euphras. Chelidon. ana thj. Croc. Metallor. tutiæ ppt. ana 3ij. Caryophill. Aloes ana 3j. Sacch. Cant. alb. Zj. Camphor. Zss. m. s. Collyrium. Detur in Vas. claus. digeratur per aliquot dies, postea coletur.

This must be used in the same manner as the former;

And is also an Excellent Water to heal all sorts of green Wounds, and in particular, all Wounds and Contusions in the Flesh, in a very short time. I have lessened the Quantity of the Alees and Cloves, being in my Opinion too sharp and too hot for the Eyes; tho' in all other Cases it may be used with Profit, according to the Author's Prescription. But if all these Medicines should not procure the desired Essect, you may employ the following Powder which is much stronger. I have tryed it often in this Case.

B. Lap. Scissil. Zj. Vitriol. alb. Dis. Aloes gr. vj. Sacchar. Cant. alb. gr. xv. Misce siat ad Subtilissim. Pulv.

The Cure of If this also proves ineffectual, you must undertake the Cure with a Blunt Pimples and Knife, Toothed like a small Saw; but first apply the Leaden-Ring to the small Tumours Eye, to keep it open, then move this Knife from one side to the other, over the Spot or Speck, as lightly as possibly you can, till you have made the Spot something Raw and Uneven, and loosened the upper Part of its Skin; which being repeated three Hours after; it will be easily taken away afterwards with the abovementioned Powder, being blown into the Eye three times a Day with a Quill.

Small Tumours and Pimples which contain some Matter in them, may be easily cured before they grow hard and slessly, only by being sostned and brought to Suppuration by a good Emollient Plaster, and treated in the same manner as small Putrid Tumours ought to be; but if they are grown very old and hard, then apply the following Plaster warm every two

Hours, and continue it till it's quite confumed.

B. Emplastr. Diaphoretic, Myns. 3iij. Dia Sulptur. Ruland. ad Gantion Dolai ana 3ij. Flor. Salis Armoniaci, Croc. oriental. ana 3iis. Succin. ppt. 3ij. Ol. tartar. satid. 3j. m. s. dilig. ad f. Empl.

If this Plaster will not answer your Intention, you must try to do it by Excoriating it, for nothing can be more penetrating than this Plaster, with which I have cured great Numbers of Ganglions, and other stubborn Tumours. Let the Opening be as large as is necessary, and if possible, in the Inside of the Eye-lid, because the Cist in which it is contained, lies nearer that place; but if this cannot be done, make the Incision on the outside of the Eye-lid, if you cannot use Restriction. Warts may be easily tyed with a Horse-hair, or with a Silk Thread, and afterwards cut off; or it may be touched with the following Water; or if the Eye be shut very close, with a little Aqua fortis or some other Corrosive without any Danger. But before you proceed to these very sharp Medicines, use the following Water three or four times a Day, and to prevent any ill Acciedent that might happen, you ought always to have in readines, some of the Aqua Spermatis Ranarum with Sacchar. Saturni ready to be applied, if there should be occasion. The Water follows.

B. Spec.

what it is.

Its Caufes.

Be Spec. diatartar, Mynf. Alum. usti ana Zj. Ceruss. Tutia ppt. ana 318. Mercur. Sublimet. vet Mercur. Viv. 3j. Camphor. in vin. dissolis 31s. Ag: Rosar. Veron. plantagin. ana Zvj. m. f. ad Aqu. s. v.

If you don't approve of the Mercur. fublimat. you may instead of it use Mercur. Viv. dissolved in Aqua fortis, and mixed with the other Ingredients. For all Warts and Tetters Mr. Blegni * has a Precious, but something *Obser. 8. pare Stinking Unguent, which I have used many times with great Benefit. 1. p. 214. It is made as followeth. eafily be legarated at lift by a dexterous A

B. Terebinth. Venet, 3ij. Argent. viv. 3j. Mix thefe first very well to- Monsieur Bleggether in a Stone Mortar, and then add Ol. Olivarum Zij. Ol. Laurin. m'r precious 3 ss. Rasar. Chamomil. ana 3j. Axungiæ taxi veteris, erynacci ana Warts & Tet-31s. Refine, Picis Naval. ana 3ij. Pingued. Porcin. vet. 3j. Aceti ters. Vini fortis. 3vj. Sulphur. Alum. usti ana 3ij. virid. æris Sal. commun. Vitriol. Roman. Gallor. ana Zi. Misce f. diligent. s. artem ad Will touch upon the Fladwolf, or little Ca. door I liv

This very large Composition, is enough to fright any Body from venturing on it, but it is admirable in the Operation, and you may use it not only in this, but in several other Diseases, as the Itch, Tetters, Ring-Worms, Herpes, and the like. Blisters may be easily cured with the difsolving Plaster and Species Diatartar. myns. mixed with a little Plantan or Honey Water.

In January 1690. A Lady of great Quality of the House of Britivitz, Observation. and another Lady shortly after of the Family of Kettulinskin, came to me to be cured; the first being troubled with a Chalazion on the Upper Lid of the Left-Eye, and the other on the Right. And finding that Medicines would not take place, I was forced to Exect it. They both acknowledged, that at first it was nothing but a Pimple which was a little painful; but at length gathered Putrefaction; yet never broke the Skin, tho' they had used Emplastr. Diachyl. cum Gummatibus a long time together. The Pain in time wholly ceased, and then they grew hard, Increafing and Decreafing in bigness with the Moon, and might be moved from one fide to the other; which I only mention to let the Reader know, that these little Swellings at first are nothing but Pimples, which cause Pain, and contain Matter or Pus; but if they are neglected and not cured in time with Emollients; grow at last into another kind, and so Contumacious, that no Medicines can prevail; but must be taken away by Incision, which I was forced to have Recourse to in the Case of these two Ladies.

Anohylops is tomething lefs known than the former, foldom occursib Chirurgery, and when it does, is only an Accident in the Glassials Lachrymalis, which few Chirurgeons observe or know what to make of its therefore having remarked feveral Faults that have been committed in this Cafe, I will treat of it more at large, and thew how to cure in. This Tumour has its proper Cift or Bag, and ought to be taken off before agraveloge and Camerous; for accounts all Attempts will make it rather worse than better; because a cannot be taken away without burt-

ing the Clandula Lachrymalis, and the Moistness of the part tenders Corrotives

ele silolis are at . Toda C H A P. XXVI.

Other Infirmities and Accidents of the Eye-Lids and Eyes.

Shall not trouble my felf here, to make a long Discourse of Eye-lids that are grown together naturally, or by Accident, because they may eafily be separated at first by a dexterous Incision; but if they grow to *Chirur. part a Tunica Cornea, you must follow Dr. Solingen's Method * as I have often in c.10. p. 56 done in fuch Cases. Nor will I say much of the Trichiasis, or the growing of the Hair of the Eye-Lids inward into the Eyes, which may be eafily pulled out with a small Forceps, tho not without Pain. The Pyofis Opthalmos, where Putrefaction lies behind the Cornea, I will also omit, because it very seldom happens, and also the fantastical Opening the Eye in the Form of a Half Moon, near the Circulus Iridis, because it fignifies little, nor will I touch upon the Pladarofis, or little Caruncles in the inward parts of the Eye-Lids; for when they grow big and troublesome, they may be cut away with Sciffers; but I will chiefly treat of two several Accidents which often fall under the Chirurgeon's Hands, and require great Care and Diligence in the Cure of them. One is called Staphyloma, and the other Anchylops. Staphyloma is an Affect of the Eye, rifing at first like a little Bump about the Bigness of a small Pea, setling in the middle of the Pupil, resembling the Head of a Flie, and therefore called Myocephalon. This Pimple increases by degrees and grows into the Shape of a great Rernel, or the Seed of a Grape, and then is called Staphyloma. If it's not cured in time, it will still grow bigger and bigger, hard and callous, and feldom fails to deprive the Patient of his Sight, with an Impossibility of being reftored; which is a sufficient Reason for beginning the Cure betimes, to prevent those ill Accidents, and preserve the Beauty and Use of

Staphyloma, what it is.

Its Caufes,

The Caules of this Affect, is commonly a forcible Injury happening to the Tunicle of the Pupilla, by some external or internal Accidents. Internally when an Acrimony in the Liquor Aqueus or Lympha corrodes and eats through the Pupilla. Externally when too corroding Medicines have been apply'd by an unskilful Hand, which will some take hold of this than of the Conjunctiva, because the Pupil is more Thin and Tender, and the Corrosives will soon make it Raw, and at length a Hole, at which some of the Liquor will issue out, coagulate and harden into a little Prominence, which afterward encreases and becomes a Staphylbma. doinw

Anchylops, what it is-

Anchylops is fomething less known than the former, seldom occurs in Chirurgery, and when it does, is only an Accident in the Glandula Lachrymalis, which few Chirurgeons observe or know what to make of it; therefore having remarked feveral Faults that have been committed in this Case, I will treat of it more at large, and shew how to cure it. This Tumour has its proper Cift or Bag, and ought to be taken off before rather worse than better; because it cannot be taken away without hurting the Glandula Lachrymalis, and the Moistness of the part renders Corro-

fives infignificant; because they immediately become Fluid, and cannot confume what they were defigned for: And yet Corrofives are very requifite in this Case if timely used; for otherwise they will turn to malignant Olcers, Fiftula's, and at last a Cancer; therefore use Restriction or Incision as soon as possibly you can, to root it out with little Trouble, and you have no more to do. The Ancients called this Anchylops a Fistula, but not a true one, tho' in time it may grow to one, if too long negle-

The Cure of this Discase, as I have partly said already, must be by The Cure of Restriction, if it can be used, tying it at the Root on the Glandula Lachri- Anthylops. malis, and when you think it is ready, cut it off; but if Restriction cannot be employed, take hold of it as well as you can; pull it towards you, cut it off, and immediately apply the following Powder to it, and if the Circumstances require it, mix it with some good Eye-Water.

B. Sacchar. Cant. alb. 3j. Tutie ppt. 3s. Sarcocollæ, Lapid. Calaminaris ppt. ana 3iss. Sacchar. Saturni, Matris perlar. ppt. nihil alb. ppt. Croc. Metallorum ana 3j. Vitriol. albi, Camphor. ana gr. iv. m. ad. pulv. subtilissim.

If you have not this Powder in Readiness when you have occasion to Cure of a Seause it, instead of it take that of Mynsicht, called Pulvis Ophthalmicus, or phylona. only Tutia, Sacchar. Cant. alb. and Mater Perlarum, and you willsfind it heal in a short time. Over this Powder you must apply no Plasters, as is directed in other Cases; but only proper Fomentations and Eye-Waters.

The Cure of a Staphyloma, tho' the Sight is seldom or never Recovered, is often attempted, in order to take away the Deformity of the Eye. Medicines howfoever discreetly prescribed, are always ineffectual in this Case: for the Affect is so stubborn that they will do more Harm than Good, and therefore proceed in this manner. Take hold of the Staphyloma with a small Forceps, pull it towards you as much as you can; then over the Head of it, as near the Eye as you can, tye a double Silk Thread very fast, and let the two Ends of it hang down, that you may draw it to you again, when three or four Days after you fully exect it. When it's quite cur off, or falls away of it felf, as it sometimes happens, put Pulv. Sarcocollie directly into the Hole, every Day till it's well. For a Defenfitive, apply over the Eye a good Fomentation, to prevent ill Accidents that might follow the Restriction. Dr. Solingen prescribes another manner of Operation, which is very troublesome and tedious; but for what Reason I cannot imagine, fince in Chirurgery we ought to study the best

In January 1686. a Servant-Maid named Anna Krugers, 19 Years of Observation, Age, came to me from Weygelfdorff to be cured of a very large and nafty Historical. Staphyloma in the Left-Eye, which had made the Eye very Red and Inflam'd, and the Eye-Lids to fwell; the was afflicted with it a bove three Years, and the Parson of the Parish, who was also a good Oculist, had been trying to cure it a long time, but without Effect, tho' the was otherwise of a good Constitution, and in perfect Health. She was of Opinion that it came by a Blow which a Man gave her with a little Stick upon the Eye; for from that time it was inflamed, and at Atignes tollowing Gargarian.

length grew into a Staphyloma. After her Body had been well prepared with Internal Medicines, by the Advice of Dr. Burgh, I undertook the Restriction of it as high and as near the Vvæa as possible I could; and four Days after, feeing it would not fall away, I cut it off, and applyed the following Powder often to the Wound, with which she was cured.

B. Tutiæ ppt. 31s. Sarcocoll. 3ij. Sacchar. Saturni 3j. Mifte fiat Pulv.

The Cure of this Diferie, as the have partly (aid already, must be by The Cure of Before I applyed the Powder, I always wiped the Wound very clean with Lint, and touched it with a little Ol. Saturni, which mightily strengthened the Eye, and made the Powder fasten and operate more powerfully. To promote the Healing of the Hole, that was made on the Tvæa over the whole Eye, I applyed a good Fomentation to prevent an Inflammation.

> & Sachar, Cause alle 33. Taria ppt. 3 les Survocolla, Lavid. Calaminorth ppr. was Siles Sacctor, Saturns, Marcis perlan, ppr. ninit alle. ppt. Croc. Metallorum are 5). Vitriol. ollir, Camphor, and gr. iv.

"It you have not this Powder in Readine's when you have occasion to Care of a Stause it, inflead of it taluIIVXX M. P. H. D. Palvis Ophthalmicus, or phylores. only Turia, Saxby. Cart. alb. and Plater Perhana, and you will find it

Diseases and Infirmities of the Tongue, What they are, and how to The Cure of a Mandylowa, & method is teldom or never Recovered, is often attempted, in order to take away the Deformity of the Eye. Me-

The Tongue a Noble Member.

EVERY Chirurgeon without doubt knows what a noble and useful Member the Tongue is; the great Instrument that forms the Speech, diftinguishes the Taste, and which Nature has especially taken Care of to preserve it from Injury; yet nevertheless, tho it is guarded and surrounded with a Fence of Teeth, &c. it is subject to Variety of Accidents. Sometimes the Teeth themselves contribute to the hurting of it, as in dangerous Falls, in Fits of the Epilepfie, by Gun-shot, and other Mischances, that tear away whole Pieces of it. Blifters, Holes, and Ulcers, especially in Salivating, are very prejudicial to it, and give the Chirurgeon more than ordinary Trouble, tho' well approved Medicines are constantly apner of Operation, which is very troublefome and tedious; but for bayle

* Chirurgia part 1. c. 42. p. 289.

Untying the Tongue is so well known and common, that there needs Tongue-tyed no more to be faid of it, than that the String must be cut with Scillers, and the Wound healed with Mel Rofarum. He that would know more of this, and other common Accidents of the Eye, may find them sufficiently handled in another of my Books *; and therefore I will only here discourse of Ulcers, Blisters, and some other Hurts of the Tongue, and direct the Chirurgeon to proper Specificks for the Cure of them, which I will divide into two parts, and first treat of the Cure of Bliffers and Ulcers proceeding from the Scurvy and Foulness of the Mouth; and secondly, of such Accidents of the Tongue where Malignity is to be feared, or Suspicion of Morbus Gallicus. For the first of which Larccommend the following Gargarifm.

Red Gurge-

R. Cort. Rad. Sambuc., Lign. Fraxini and 310 Augustior. rad. Tor-A Gargarifin. mentil. fol. Alchimill. Vinc. per Vinc. and Miss Buxi Salviw and Mi. Flor. Rofar. Balauft. malve bort. and 31s. Syr. Dibmon. Papav. errat. ana 3j. coquantur omnia simul in Vaso bene clauso cum Aq. Salvie, Plantaginis & Prunelle qu. s. Coletur & fervetur ad ucum cum. Vin. 3, Syr. Papare, eriat Mell. Rolar, an and notice has

If you defire it should be something sharper, add a little Sal Nitri & Sacch. Alluminis to it, and when you have used it a while, and perceive the Patient's Mouth is sweet and clean, prepare the following willy, and after that the Mixture; with which frequently rub the Tongue, and all things will answer your Intentions. I have an alcoholink . hall &

lauftior, core. Britant, and 311 Fel. Be Mucilag. Sem. Pfyllij & Cydoniorum. c. Aq. Rofanum & Salvice fact. A Mucilage. Ziv. Gelatin. C. C. 3j. Spodij. 3ls. Mell. Rojan. Syr. Papav. err. ana 3j. Misce detur in Vitr.

This Gargarifm is of excellent U.S. which you may fometimes mix This Mucilage cleanses, cools, and prepares the Ulcers and Blisters to be fooner healed by the following Mixture. In some sind no bist of

B. Decocte rad. Aristol. long. Alchimil. & Veronica cum Aq. Veron. 200 J. Wolf Vin. alb. q. s. Ziij. Syr. Granator. moror, flor. Prunell. and 36s. doing Rofar. Bij. Alum. crud. Bj. mifce f. mixtura s. artem. 2 211 110

With these Medicines diligently applyed, you may make a sperfect Cure, and as foon as can be expected. If a great Rawness of the Mouth should accompany it, garguling with sweet Milk between whiles would be convenient; and if there is a great Putrefaction and Foulness, the Gargarifms mift be rendred more penetrating, for which the two following Month-Waters are very proper, and read not a niege am of amen cluded there must be formething more than ordinary in the Case, and

barcologo Corrie. lign. & rad. Fraxin. rad. Mandrager. Benedicti and 3jofal. A Mouth Wacofol. saracen. Salvia plantagin. veron. ana Mj. flor prunells Mijoba- ter. lauft. Miis. cort. Granator. 31s. rad. Tormentill. Aristol. long. ana Biij. Misce Scind. & cont. gr. modo, postea coquantur cum Vin. alb. & Melle & Aquæ plantag. ana part. per hor. j. in Vaso bene clauso. Colaturæ adde Rob. Diamor. Mell. Rosar. ana 3iss. Alum. crud. 3iiss. f. l. art. Gargarismus.

If you think this Mixture too tedious, and had rather have one sooner made, provide your felf of the following, which is also a very good one.

B. Aq. Plantag. flor. Prunell. ana 3iij. Papav. errat. Chelidon. min. ana 3iss. cort. Granator. 3j. Gumm. Lacca 3jis. Alum. Calcin. 3is.

Let the Waters be first made very hot; then pour them upon the Gummi Lacce in granis & Alum. ustum. After it has stood a Night, filter it through Paper, and add to it Syr. Cydonior. Mell. Chelidon. ana 3j m. f. ad form. Gargarism. With this Gargarism warmed, wash the Patient's Mouth

wery often The Holes must also be washed and cleaned with the following Mixture, three times a Day, for the Mucilages are here too weak, and fignify little.

An excellent

B. Agu. Benedict. rubr. 3ij. Tinct. Lacce Ziss. Decott. Cort. Granatorum cum. Vin. 3j. Syr. Papav. errat. Mell. Rosar. ana 3vi. misce fiat Gargar. d a little Sal Nieri &

If you define it should be something sharper,

To this precious Mixture, if you find it necessary, add a little more of the Allum and Aq. Bened. rubr. which is thus prescribed.

The famous Red Garga-

B. Rad. Aristoloch. rotund. & long. ana 3 ss. Tormentil. 3j. Flor. Balaustior. cort. Balaust. ana 3ij. Fol. Tabac. 3ij. Sacch. Alum. 3ij. tifin. Mercur. Sublimat. alb. Div. Tartar. crudi 3j. Sal. Armon. Diifs. Misce f. s. art. Gargarismum cum Spir. Vin. thiij. digestum.

> This Gargarism is of excellent Use, which you may sometimes mix with Mel Rosarum, as you find occasion. And this I think sufficient to be faid on this Cure, which I am certain will perform it according to

your Defire.

Observation.

In December 1687. I had in Cure one Sigismund Kerner a Clothier, about 38 Years of Age, who had many large nafty Ulcers and hollow places on his Tongue, Gums, Pallate, and on the infide of his Cheeks; which a Chirurgeon of this place had been above a Quarter of a Year in Curing, but without Success. I gave him presently several Purges to cleanse his Body and purifie his Blood, and then used the Mixture made with the Ay. Benedict. Rubr. upon which they began to grow very Well, and in a Month's time feemed to be perfectly Cured, and the Patient returned to the Management of his Affairs. But about a Quarter of a Year after, he came to me again; for New ones began to appear, from whence I concluded there must be something more than ordinary in the Case, and . W direct A . therefore prescribed him the Use of the Red Gargarifm, which compleated the Cure in less than three Weeks time.

land. Mile cort. Gravator. Els. rad. Tormentill. Ariftol. long. and Sij. Mise Seind. & cont. gr. modo, posten coquantur cum Fin. alb. & Melle & Sque plantag, and part, per hor. j. in Vafe bene claufe,

Colatura adda Rob. Diamer. Mell. Melar. and Sifs. Alam. crud. Siils. f. L. art. Gargarifmus.

If you think this Mixture too tedions, and had rather have one fooner

& Aq. Planter, flor. Prusell, and Ing. Parav. errar. Chelidon. min. and Jils, cort. Grahater. 3j. Cumm. Lacce 3jls. Alum. Calcin. 3ls.

. P. A H.V.Drs be first made very hot; then pour them upon the Gamsinguagh Paper, and add to it Sir. Cydonier. Well Chrisdon, and 1 m. f. ad form. Gargarifm. With this Gargarilm warmed, wash the Patient's Mouth Very

on Torthe correction by realon toons onto or otherway Victoria is apt to fathe be-

Caule of Rose II fille Teeth are hollow and the Gursa re-

and from the rior of the A P and XXVIII: and the control of the least point of the least

Of Pains in the Teeth and Gums, and several other Affects of those Parts.

and decays the Teach electristy the Guess as is manifelt to our 5 ghr,

HE Teeth and Gums are subject to many Diseases, Pains, and other Inconveniencies, of all which I shall forbear discoursing here in particular; but confine my felf to fuch only as are most frequent among us; fuch as Vicers, Rottenness, Pain, the Scurvy, Blackness, and the like, which Causesof Pains occur in every Day's Practice, and occasion great Trouble. Upon a small of the Teeth. Distillation of Rheum and other Accidents, as Heats and Colds, may eas fily follow an Alteration which breeds Vicers in the Gums, for they being Glandulous and Spungy, and containing abundance of Ductus Salivales, Arteries, Veins, and other Vessels, and are only covered with a very thin and tender Skin, but very apt to contain feveral forts of Moisture, and cause Ulcerations, in those that are inclinable to Rheums, and such as are of a sanguine Complexion. It begins with a small Swelling, accompanied with Heat and Pain, which afterwards increases and grows into an Vicer. The first Intention is to asswage the Pain, bring it to Suppuration, and then open it, which is the furest way; for when the Pain ceases, the Ul-cer may be easily cleansed and healed; unless there be a Carios on the Jaw-bone or Teeth, the Scurvy, a fleshy Excrescence, or perhaps a Fistula, for then you must diligently enquire into the Cause, and having found it, proceed to Cleanse the Jaw-bone from its Blackness, pull out Teeth if there be occasion; yea, proceed to Incision and Burning if it will not be The Cure, otherwife remedied; for fear it should break out again. I have already treated of Excrescences in the Eleventh Chapter, and how they often grow cancerous if not timely prevented; and now defign to discourse of Fistula's in the Jaw-bones, and of Olcers, which result the ordinary Methods of Cure, being continually full of Moisture, and must be cured in the following Manner. First squeeze out the Ulcerated Matter very well, and then gargle or wash the Mouth with one of the Gargarisms mentioned in the foregoing Chapter, or the following, which is more particularly adapted one more easie to be made and very proper, which to this purpole.

B. Aqu. Solani flor. Prunell. Plantazin. ana Ziij. Decoet. rad. Chine Ziv. Ungu. ægiptiac. Nitri Antimonial. ana Ziis. Syr. flor. tunic. Papav. errat. Mel. Rosar. ana Is. m.f. l. Artem Gargar.

Having washed the Mouth very well with this, then use the following Ballam, which works extraordinary Effects in these Therations of T

Be Decoct. Alchimill. & Veron. and ziv. Mell. Perficar. Zij. Coque Lento igne continuo agitando & immisce Succ. fol. Tabao. Zij. Move diligentissime donec nimirum omnia exactissime fuerint mixta, remove ab igne, adde Mell. Rosar. zvi. Pulv. Myrrh. zij. Albes zij. Sacchar. Saturni ziss. Spirit. Sal. Armon. Zis. rob. Sambuc. zij. misce stat dilig. ad Balsam. form.

Cause of Rotten Teeth.

The Cure.

If the Teeth are hollow and the Gums rotten, fuch Vicers may eafily encrease, by reason some part of our chewed Victuals is apt to settle between the Gums, the Teeth, and the Parts thereabouts, being all moift and fpungy, and if the Mouth is not washed very clean, it rots and putrifies round about; for the faltish Savour and Acrimony which is concealed in our Viands, in time takes hold of our Teeth and Gums, and causes a Rottenness and Decay of those Parts. Inwardly it proceeds from a corrofive, saltish, Scorbutick Blood, which by its corroding Quality, putrifies and decays the Teeth, especially the Gums, as is manifest to our Sight, and by the noyforn Stench which attends them: Therefore if the Patient has the Scurvy, his Blood foul and polluted, the Chirurgeon should first procure his Body to be well cleanfed by the Advice of a Learned Physician, and The sir he is in a Place where one may be had; if not, he must do it himself; about of or external Applications without internal Medicines, will fignific very little, and the stronger the Disease is, the more Diligence must be used; I will therefore furnish you with a Gargarism and a Balsam, which will certainly do you great Service in all these deplorable Cases.

> ly covered with a very thin ban B. Decett, fol, Salvia & Nicotiana c. vin. ana 3vij. Tinctura Lacca ous as do Biv. Caryophillor. 3j. Myrrh. 3ils. Syr. flor. tunic. Mell. Rofar. ana boing mo dij. misce fiat Gargar. detur in Vitr. mondamo minum vo to

> which afterwards increases and grows into an Vicer. With this you must wash the Gums very well, and then anoint them with the following Ballam. way; for was florid with nego neds

Be Decoct. fol. Nicotian. & Ariftol. long. cum Vino 3vij. rob, Sambuci ii boud Mell. Rofar. 3jis. Ung Purpur. W.3vi. Myrrb. in Spir. vin. Solut 3fs. Mell. Keron. Bij. misce & coque ad consumptionem humiditatis; deand all inde admisce Caryophillor. 3ils. Sarcocoll. 3ij. pulv. rad. Pyrethr. vos de 3 Birls. Succ. Inspissat Hyoscyam 3ls. Laud. Opiat. Sacchar, Saturn. treated of Exerchences in the Elevant chis mala Balfam. f. Balfam. side of the rest of the provided and the state of the s

Tho' this Balfam is fomething troublefome to make, yet you will think your Pains well bestowed when you come to use it; for it's very effectual in its Operation, and you will scarce find in the whole Republick of Medicines, any thing that more powerfully relifts Futrefaction, and heals the Gums to a Miracle. However I will accommodate you with one more easie to be made and very proper, which I always made use of in the Camp.

Re Robe Sambuc. inspiss. 3jis. Balsam. Peruvian. 316. Esfent. Myrrb. cum Vino parat. 3v. mifce fiat Super ignem ad formam Balfam. This is to be used like the former.

The Tootch-ach is certainly a very great Torment to Mankind, and that the Remedies are so many, are not to be wondered at; among which number, let them be what they will, every one thinks his own the Best, the Safest and Surest; and let the Pain proceed from what Cause foever, they will make use of any thing. This painful Diffemper does not only make the Head and other Parts share in its Misery, but even Saturni & ils. Spirit. Sal. Armon. Els. rol. Sambue. 31. milie hac

dilig, ad Balfam, form,

the Soul it felf is moved with Compassion, as is testified by daily expe-

This Malady, according to the common Notion, proceeds from a great The common Defluxion of ill and malignant Humours (except in young Children, Nation of the where the Pain is occasioned by breeding of Teeth) which pricks the Cause of the Nerves and Vessels so long, till it raises a great Pain and Inflammation; besides which, I considently affirm, That frequent Picking the Teeth, especially if the Tooth-Pick is made of Iron, Silver, or other Kind of Metal, is a great Cause of this Disease; for it takes away the Smoothness of the Teeth, makes them hollow, apt to lodge Corruption, and so spoils the Flesh and Fibres, that the Lympha cannot pass through its Veffels as it ought to do, but stagnates and grows sharp, sour and bitter; and by its corroding Quality pierces the small and tender Fibres of the Sinews and Membranes, till they cause an Inflammation and intolerable Pain. There are also several other Causes, as great Colds, and an ill Habit of Body. The Medicines ought to be so ordered, as to temper the Acrimony, and meliorate the stagnated Humours, as the best and surest way to ease the excessive Pains. L. Juncken has given us the Prescription of an Excellent Water to ease Pains in the Teeth, which I have often tried with good Success, and is made as followeth:

B. Rad. Pyrethri Cort. Rad. Mandragor. and 31s. Fol. Nicotian. Sa- L. Juniker binæ Persicar. and Mis. Cubebar. 3vj. Campbor. 9j. misce scind. Water for the cont. gr. m. Boil these Ingredients in half White Wine, and half Water, but not the Camphire, for that must be dissolved in Spirit of Wine, and mixed with the Decoction when it's and had a sold and then you have done almost cold, and then you have done.

Some make a Tincture by infusing these Species in strong Brandy, and use it for the Tooth-ach. My own Water for this Distemper, which has always done me great Service, and feldom or never failed in this Cafe, is made as followeth:

B. Rasur. lign. Guiac. Rad. Chinæ ana 3j. Herb. Nicotian. Mjs. Rad. Pyrethri 3ij. Caryophill. sem. Hyosciami ana 3js. c. s. q. Aq. fontan. coq. in Colat. dissolv. Ess. Anodyn. 3j. misce servetur ad usum. the fame fale where the Pain is.

This Incomparable Water being taken warm into the Mouth, and held on that fide the Mouth where the Pain is, takes it away in a fhort time; but if the Patient be in bast, and the Pain extraordinary, Drop Two or Three Drops of Ol. Origani distillar. into a little Cotton, put it into the Hollow Tooth, and the Pain will vanish immediately. If the Teeth are very hollow, it would be requifite to fill them up with the following Pills, which are the best I have feen of that Kind.

Re Extract. Opij & Savinæ ana 3 ij Ol. Caryophill. Jij. Buxi, Origani ana gutt. xv. m. f. a. & form. Pastilla, vel Pill. parvæ.

And if this does not please you, take the following.

Be Chal-

Monnigue

Be Chalcitid. Massa Pillul. Ruff. and Zij. incorporentur Spirit. Vini, & adduntur Opij correcti, Ol. Buxi and Zij. Tinctura Odontalgica Wedelij Zij. m. f. Pill. The Famous Tincture of Dr. Wedelius is prepared ex Ligno Sancto, Rad. Pyrethri & Caryophyllis c. s. q. s. Spirit. Vini.

Dr. Dolæus in his Encyclop. Chirurg. Rationalis, Lib. 1. Cap. 22. Pag. 540. recommends in great and inveterate Pains in the Teeth, the following Balfam.

Be Rasur. Lign. Sanct. 3iij. Sem. Staphid. Agriæ, Rad. Pyrethri, Sandal. Citrin. ana 3ij. Zinziberis, Piper. Caryophyll. ana 3ss. Sem. Origani 3ij. Fol. Serpil. Salviæ, Nicotian. ana Mss. Opij pur. 3ss. Camphor 3ss. misceantur & c. s.q. Spirit. Vini distillentur in Cucurbit. s. a.

This Balfam is to be applied to the Hollow Tooth and the Gums; and in the same manner may be used the following Balfam of Dolans, which I have often used, and always keep it by me in readiness upon all Occasions.

Doleur's Balfam for the Tooth-ach, Be Laudan, Opiat. Dj. Ol. Camphor. Ol. Caryophillor. and gutt. v. Buxti gutt. iij, misce siat Balsamus.

Several Learned Mens Medicines.

Now tho' in all reason I may be thought to have given Medicines enough already for the Cure of the Tooth-ach, yet because some help this, and others that, and that the Chirurgeon having greater Plenty, may chuse what he thinks most proper; I will accommodate him with many other Remedies Approved and Practised by divers Learned Men in several Countries.

Dr. Herclius's Pills for the Cure of this Disease, are compounded ex Sem. Apij Hyosciami & Opii, cum s. q. Syr. Papav. errat. mixt; which being put icto the hollow Tooth, has given ease to abundance of People.

Dr. Wedelius and Dr. Schrock very much commend a Water prepared of good Moschus, in which wet a little Cotton, and put it into the Ear on

the fame fide where the Pain is.

Dr. Bartholinus makes an Unguent of the Feet of Green Frogs and Opium, of which he puts a little into the hollow Teeth, or anoints the Gums with it, and thinks he can never say enough in its Praise.

Dr. Nuck made use of Hungary Water, with some Spirit of Vitriol, and

the Arthritick Balfam.

Dr. Silvius prescribes an Excellent Water, which he directs to be applied to the Temples. B. Gum. Caran. Elemi, Tacamahac. Mastich. ana 3ijs. Laud. 3ij. Bol. Armenæ, Opii puriss. ana 3jss. Camphor. Dj. cum s. q. Ceræ & Terebinth. m. f. Emplastr. form.

Dr. Blanckard in his Praxis saies, That in violent Teeth-aches, he had cured several Patients almost in half a Minute's Time, only by putting into the hollow Tooth a little Cotton dipped in Spir. Vitriol. retti-

ficat.

Monsieur de Fournay the French King's Chirurgeon in Paris, gives a great Commendation of the following Odontalgick Mixture. B. Acet. Vini distillat. Spirit. Vini ana 3ij. Camphor. Laud. Opiat. ana 3ij. Ess. Sem. Staphid. agr. 3iij. m. f. mixtura. Some of this must be put into the Tooth, and applied warm to the Place affected.

Mr. Lardreau de Varenne, Chirurgeon to the Duke of Orleans, saies, Spirit. Sulphuris & Spirit. Terebinth. anaticas partes, misce: Being put into the hollow Tooth which causes the Pain, and a little dropt into Cotton and put into the Ear on the same side, will asswage the Pain im-

mediately.

Mr. de Landes Bangrand, a Famous Chirurgeon at St. Malo in France, recommends Ol. Vitriol. rectif. Ol. Lign. Heraclei, Spirit. Terebinth. mixt,

and applied to the Tooth with Cotton.

Dr. Nathanael Sfortia advises to use the following Pills, which take away the Tooth-ach presently. B. Opij Thebaic. gr. xv. Spec. Diambr. gr. x. Piperis gr. v. Camph. gr. iv. cum s.q. Ol. Caryophill. & Lign. Buxti stat Pill. Mass. of which one Pill is to be put into the hollow Tooth.

Dr. Muraltus wonderfully commends the following Pills: Re Sem. Apii 9s. Extr. Opij, Sem. Hyosciami, and Jij. cum Vino Albo q. s. fiat Massa, ex qua consiciantur Pillulæ in pici formam, which must be applied to the

Tooth.

Dr. Muys praises the following Water to chase the Gums with. B. Tin-Elur. Gumm. Laccæ, 3j. Spirit. Cochlear. 3iij. Ol. Tartar. per deliquium gutt. xiij. This I have tried my self, and it performed what was defired.

Dr. Ettmuller highly commends this Plaster applied to the Temples. B. Gumm. Tacamahac. Carann. ana cum s. q. Balsam Peruvian. malaxe-

Paracelsus, Horstius, and Pansa give large Commendations of the Decest. Persicar. made of half Water, half Wine, taken warm into the Mouth, and held on the side where the Pain is: But Dr. Michel, Professor at Lipzig, opposes it; and instead of it, adviseth the Use of Fol. Pulegij, moistened a little, and applied to the pained Part. But it's time to have done with this Disease, and its Variety of Remedies; especially since at the time of Writing this, I have been grievously afflicted with the Tooth-ach, about Twelve Days together, in which nothing would do me any good, the I tried many things, till I dropped a little Ol. Origan. distillat. into Cotton, and put it into the hollow Tooth, which presently gave me Ease.

In the next place the Scurvy, Blackness, and stony Substances about the Teeth, are to be considered. For the Scurvy you may find Plenty of Remedies, among the Medicines appropriated to the Rottenness of the Teeth and Gums, and those very good ones. For Black and Foul Teeth, and to remove the Tartarous or Stony Substances from the Teeth, I will present you with two Excellent Powders celebrated for their extra-

ordinary Virtues: The first of which is thus compounded:

Be Pulv. Lap. Pumic. calcin. Off. Sepiæ, Lap. Silic. ppt. ana 3jls. Crystal.

Tartari 3j. Corall. rubr. ppt. Bol. Armen. ppt. ana 3iij. Mosch.

Zibetb. ana gr. iij. m. f. Pulv. Dentifricius.

Monfieur de Feurnay the French Hing's Chienrycon in Paris, gives a

The Stony or Gravelly Matter about the Teeth, and other Noisome Things that are fettled about and between them, must be first Scaled off with a proper Instrument, and then diligently rub the Teeth with this Powder Morning and Evening. The following Powder is much of the fame Nature as the former, committee on an arrive and and the fame Nature as the former. Spirit Saiphuru & Spirit. Terebirch, anaticas partes, milee

100 R. Rad. Ir. Flor. Lap. Silic. ppt. ana 3j. Sangu. Draconis opt. ana 3vj. Caryophill. Cubeb. ana 3j. Corall. Rubr. & alb. ppt, and 3j. Sem. Citr. Dijss. Tartar. albiff. 3jis. Sal Tabaci 3ij. Mosch. gr. iv. Balfam. Apoplect. Dis. m. f. Pulv. subtilissimus, qua Dentes con-Juim . fricentur.

When with the use of these Powders you have made the Teeth perfectly clean and white, to keep them fo, you need only use the Powder of Burnt Bread, mixed with a little Cremor Tartari. Mall of which one Pill is to be put into the hollow Lo

Muraline wonderfully commends the following Piller B Semi

Sem. Physferams, and Dit com Fine Albo o. 6 has Mat-

Dr. Mary prairies the following Water to chafe the Gums with. E Tis-Eur. Genns. Lacce, 3]. XIXX Co. Pak H D Larter. per delegreum gurt, xiii. This I have tried my felf, and it performed what was de-

fa, ex qua conficianter l'illela in pici formant, which must be applied to the

Apostemata, and all Sorts of Purulent Tumours in the Face.

& Gamm, Taramabut. Carami, and cam f. a. Ballam Peruvian, malaxe-

Purulent Tumours on the Face.

IT will be necessary in this place to discourse of small Tumours, Ulcers, and Prominences, which containing Matter in them, not only disfigure and spoil the Face, but cause Inflammations, and prejudice the Nofe, Eyes and Mouth; yea, and if they abound with Moisture, diffuse themselves over the whole Face; and tho at their first Appearance these Puralent Tumours are neglected because they are small, yet Experience reaches us. That if they contain putrified Matter, and happen near the Mouth, Noie, Ears, or in the Corners of the Eyes, or Eye-lids, they will corrode and gnaw the Parts, spread further, and eat deeper into the Flesh, and at length grow Malignant, and cause Cavities, and Callous filthy difficulty into Cotton, and put it into the floilow it

Their Caufes.

The Cause of these Tumours generally proceed from a Stagnation of the circulating Juices, Chyle and Blood, and fometimes from an Alteration or Hurt; and happening in the Face, grow fooner Malignant there, than in any other Part of the Body; because that Part is very Spongy and Porous, and confequently apter to promote Putrifaction; which is Reafon enough for the Chirurgeon to use his early Endeavours, to prevent those malicious Enemies to the Beauty of the Face from spreading fur-

There is no great Difficulty in curing them when they first appear, if you diligently observe from whence they proceed; whether they are of the same Colour with the Skin; where they are seated; if they grow hard, painful, itching, and lie very deep; for if all these Accidents occur,

Loost

ium we

you will have reason to suspect they are Malignant, and consequently will refift all ordinary Remedies, and grow worse and worse, especially if they grow upon the Nose near the Eyes or Mouth : But if on the contrary, these Purulent Tumours rise something high in the middle, are of a Red Colour, and in other Circumstances look like other ordinary Prominences and Pimples, you have lefs to fear, common Medicines will effect Lens occlusa calore Bainei heras tres, fervetur pro ufu.ngilad ruov

Observe also the Nature and Quality of the Matter contained in these Their Cures. Tumours, whether it is Malignant, Corroding, Stinking, Thick or Thin, and of what Colour; for the Knowledge of these things will direct you in the Cure, because if the Matter does not Stink, and is Thick and White, it's a hopeful indication; but on the contrary, if it is Thin, Stinks, and the Edges of the Ulcer are foul and corrupted, then it is malignant, to which the three following Medicines are particularly appropriated, and feldom fail of Success; but if they should, and the Diet-Drink also cannot prevail, you must raise a Salivation, which will certain-Mercurial Pills, which put him into a lux; after which he in morrog th cor; but after that they returned again; who

R Ol. Rofar. this. Vin. Malvat. thi. Lytharg. Ceruff. and 3 vi. coque The Author's vino i ad consumptionem humiditatis Vini, dein admisce Cera this Gumm. Emplast. Di-Anime, Ammon. depur. ana Zijis. Succin. ppt. Mastich. ana Zij. Rad. Aristol. long. 3. Spermat. Ceti, Camphor. and 31s. m. f. Emplastr.

real condings, eslectually animers all forcors and Empores This Plaster is of admirable Vertue, if applied to the Tumours and Ulcers as large as is convenient: I commonly call it Emplastrum Divinum. The following Balfam may be put into the Ulcers with Cotton.

> Be Balfam. Vulnerar. virid. mei 3ijs. Copaibæ 3j. Sulphur. Succin. 36s. Pulv. Croc. Dij. Vitell. unius Ovi, Terebinth. Cypr. q. f. f. Balfam.

If you use this Balsam a Fortnight, and your Patient receives no Benefit by it, use the following Water or Mixture instead of it.

> Be Agu. Alum. Magistralis Fallopij 3ij. Rosar. Plant. ana 3ijs. Lixiv. ¿ Calce viva 3iv. Sacchar. Saturni, Myrrh. ana 3jis. Mercur. precipit. alb. Div. Camphor. 3 ss. m. f. mixtur. f. art. & digeretur per 8 dies in loco calido.

That nothing may be wanting to perfect a Cure, I will further oblige you with my Balfamus vulnerarius viridis, which I have mentioned before, and also with the Aqua Mercurialis Fallopii.

> Re Succ. Alchimil. Beton. Veron. Aristoloch. long. ana Zijis. Hyperic. The Author's Sanicul. ana 3ij. Ol. Amygdal. medullæ Cervi ana 3iv. coquantur Green Vulomnia simul super ignem lentum usque ad consumptionem humiditatis, postea adde Balsam. Sulphuris, Terebinth. ana 3jis. Peruvian. 36s. Mastich. Myrrh. ana 3ij. Aloes 3jss. Flor. Æris q. s. misce f. Balsamus s. artem. The

you will have realon to suspect they are Malignant, and cord quently The Famous Aqua Mercurialis, vel Aluminis magistralis of Fallopius, is it they grow upon the Nefe near the Eyes or Mouth: But thewollof as trary, thefe Paralest Tamours rise tomerning high in the middle, are of a

Fallopius's Mercurial Allum Water.

- Re Aqu. Plantag. Rofar. ana Lttj. Alum. Rocha, Argent. viv. Sublimats Dollo III ana 3ij. misceantur in mortario vitreo, & coquantur in Phiala capaci bene occlusa calore Balnei horas tres, servetur pro usu. applett mov Observe also the Nature and Quality of the Matter contained in these Their Cores.

fervation,

In December 1690. I had a Patient in the Hospital of Sty 70b, named N. Orto, about Forty five years of Age, who had feveral fuch kind of Ulcers in his Face, but chiefly on the Forehead and Note At first Lonly used my own Aqu. Serpio, and Dr. Bontekoe's Ballam ; upon which they all grew quickly dry, and in Fourteen Days time were all healed, and fo continued above a Quarter of a Year; but then they returned more violently than before, and possessed other places in the Face; New perceiving their Malignity, befides other Medicines, I gave him some of my Mercurial Pills, which put him into a Flux; after which he was well again for three Quarters of a Year; but after that they returned again; whereupon I raised a Salivation by anointing his Joints with a Mercurial Unquent, which perfectly cured him, and so he continues to this Day. I only mention this Case, that none might rely upon Turpethum minerale, or any other inward Adhibition of Mercury; for the they feem to do good for a time, the Cure is seldom Certain or Durable; whereas a Salivation raised by Mercurial Unctions, effectually answers all Intents and Purposes.

This Platter is of admirable Vertue, if applied to the Tamours and Ulcers as large as is convenient: I commonly call it Emplifieurs Livinian. The following Ballers may be put into the Ulcers with Cotton,

B. Bollom, Valuerar, virid, mei Siffs, Coraiba & Sulprir, Surcer, 36. Pain Cros. Bij. Fitell, axian Oct, Terelinth, Cope gof A.

you use this Ballam a Formight, and your Patient receive no Beneft by it, ale the following Wang or Mixture infread of it.

B. Ack. Aluju Mogefirales Fallopij 3th, Rojus, Plant, ena 3915 Light dedicaviva siv. Sachar. Sainen, Alpreh. and Sils. Alercar. preciert all. Biv. Campher & S. m. f. mixter. L. art. & digeretur per 8 dies in love calido.

This nothing may be wanting to perfect a Cure, I will further oblige you with my Ballanur understrips which I have mentioned betore, and also with the Ages Mercurislis Fallopis.

. A A H Quee, estebismit Become Feron Ariftelech long, and Life. Firparic, The Author's Sanicul, and 5th Ob Amygdal medallic Vervi and 310, squantup Green Vist emnia firmed Juper squem tentum ufque ad confumptionem humidien- veray history en poster adde Ballam. Sulphuru, Terebiach, and Sis. Peruvian The Maffick Myrrh, and it Aloes the Plan Aris of a mifice Balfames f. arrem.

there than in any other Parts, they alerde to the Next being bare, elpecially in the Female SexXXX n.q. AtH Old Air more eatily drive the viatter to that part and condense it there.

Scrophule, or knotty hard Tumours of the Salivatory Glands, comb'nenonbredled in England, The King's Evil, and why fo difficult by West, at once spoiled the Digelline Faculty in the St. beyor's advoyent it into Diforder, and by imprinting on it self the Image of such knotted

for Suprimition: But that the Glands about the Neck grow footer hard

Turnours, they really followed upon any furprizing Sadnels or Melancholy. N this Chapter I am refolved to treat very largely, and with the ut. Kings Evil. most Exactness, of those malignant, obdurate, and almost incurable Scrophule, or Tumours of the Salivatory Glands, which happen on the Neck near the Ears; for in the whole Art of Chirurgery there is nothing more troublesome and vexatious to the Operator; infomuch that after all the Care and Pains that can possibly be employed, and the Application of the most approved Medicines, yet it's a very great Rarity if he procures any Behefit to his Patient. When they first appear, it's true, fomething may be done; but when they ard grown Inveterate, and have acquired a Correlive Quality, they are commonly Incirable, and the Chirurgeon wasts his Time and Medicines to no purpose in the World because the Matter they contain being Grass, Viscous and Glutinous, and attended with an Indurated Lympha, it refifts all Endeavours to cure it; and when Men attempt New Methods to suppress it, they are commonly difappointed; as Monsieur Lardreau de Varenne, tells us of another French Chirurgeon named Frantz Bouchard, who cut out one of these Tumours, but fo unfortunately, that the Patient died four Days after and some alala

Thefe Scropbule, as I have faid already, are high and hard Tumours on What it is. the Salivatory Glands caused by the ill Constitution of the Lympha, which by fome Accident or other is grown to Thick and Glutinous that it cannot pals through the Glands, as it ought to do, but fettles there, caufes an Obstruction, and being stagnated grows soure, and stagnates and thickens the other Juices which take their Course that way, by whose Impulses they increase in Bigness. To which I must add, That in Patients troubled with this Difease, the Mesentery Glands are commonly in a Miferable and Turnified Condition. Sometimes in these Patients, not only the Salivatory Glands are swelled and disordered, but it extends to the Shoulders and Arms, and takes Pollession of the Glands thereabouts, as there is more or less of the thickned and stagnated Lympha to cause Obftructions in the Glandules. This I think a rational Account of the Caufe of this Difeate, however, I will give you the feveral Opinions of the Galenists, Helmontists, Willismanists, Sylvianists, and laftly the Cartefianists, about the Scoophule, and leave the Ingenious to judge who comes neareft to the Truth, that he may direct his Oure accordingly, but be visido

The Galenifts and the Multitude that follow them, lay, This Difease The Opinions proceeds from a Super-abundance of the Succus Nutritius, caused by a roo of divers Auplentiful feeding upon flimy Aliments in those that are of a Phlegmarick thors. Constitution, and a Weak Digestion, which causing abundance of Viscous and Raw Humours to be carried to those weak Parts by the Digestive Paculty, grow to hard, that this Cold and Viscous Matter is rendred unfit

Dr. Willis

for Suppuration: But that the Glands about the Neck grow fooner hard there than in any other Parts, they afcribe to the Neck being bare, especially in the Female Sex, which makes the Cold Air more easily drive

the Matter to that part and condense it there.

Helmont's Opinion.

The Learned and Ingenious Helmont, who never fails to attribute every thing to his Fanciful Archæus, faies, The Strophulæ proceed from an Erroneous Imagination of the Archæus, which out of Melancholy occasion'd by Want, at once spoiled the Digestive Faculty in the Stomach, brought it into Disorder, and by imprinting on it self the Image of such knotted Tumours, they really sollowed upon any surprizing Sadness or Melancholy. O miserable and inconsistent Definition!

Dr. Willis.

Dr. Willis ascribes the Cause of this Distemper to the durable Continuance of the Thick and Glutinous Suscus Nervorum, of the Salivatory Glands: a good vice man of the Salivatory

Sylvius.

Sylvius is of Opinion, That the Scrophulæ proceed from a Coagulated Pituita or Flegm, and the Blood it self in the Glandules of the Neck, and saies, That those Juices by reason of their Acidity, and the Obstruction they occasion in the small Veins and Vessels, could neither move backward or forward, but still growing thicker by the Evaporation of the more subtile Particles, rendred the Glandules so shift and hard, that it was impossible to pass through them.

Carsefius's Opinion.

The Cartesianists say, These Tumours spring from a Glatinous and Viscous Humour or Lympha, which by reason of its Hooky and Angled Particles, is so closely intangled, that it can hardly be separated, nor the thickened Lympha pass through its proper Vessels, but remaining there, increased by the small Arteries which conveyed thither out of the common Mass, more Particles sit to encrease it, and so grew continually bigger, more extended, and at last produced the Disease we call Scrophulæ, and in English, the King's Evil. Hence may be seen the different Opinions of the Learned in this Case; tho they may be easily reconciled and agreed in this, That the Scrophulæ is nothing else but a Crass, Viscous and very Acid Lympha, which cannot pass through its own Channels, but stopping in the Glands, by degrees Swells and Indurates.

Dolaus's Opinion. Dolaus is of Opinion, That the Scrophulæ which proceed from a malignant, and fometimes from a Corrolive Acidity, take their Original primis Vitiu, from the Chylus, proceeding from an ill Fermentation, four, cause Obstructions in the Mesentery Glands, and at length totally Indurates them. Hence it necessarily follows, that the Lympha being spoiled in its first Passages, can produce none that is good in any other place, especially in the Glands about the Neck.

Now I should proceed to the Cure of this Disease, and insert such penetrating and effective Medicines as might reduce the Tumours into good Order again; but first I will briefly shew what Method of Cure is observed and prescribed by the afore mentioned Authors. The Galenists endeavour to discuss the Peccant Matter by such Medicines as rarise the Pituitous Humour, and then consume the rest with Specificks, though without Grounds or Reason for such a Process. Externally they commonly at first apply Emollient, Resolving and Discussing Medicines, and if those will not succeed, then Suppuratives, and generally to very little Purpose. Paracelsus wills the Cure to begin with Corroseves and Causticks, and afterwards

wards applying good Confolidating Medicines; for which purpose he mightily commends the following Cerate.

Be Emplastr. Diachyl. simpl. Ziv. Opopanac. depur. Zvj. Ol. Tartar.

paululium refrigeratis adde agit ando, Cere

Helmont also praises at an extraordinary Rate, a Specifick Powder ex Radice Gladioli & Digitalis, which, he faies, ought to be taken Inwardly, and also outwardly applyed Plaster-wise, mixed with Gumm. Ammoniac. & Bdellium. Willis begins the Cure by Refolving the Coagulated and Thickned Liquors in the Glands; then Evacuates with Catharticks and Dinreticks, and at last endeavours to hinder it from encreasing, and prevent it from Gathering and Coagulating; but if this Method would not fucceed, he acts like the Galenilts, and runs at last to Emollient Plasters and Cataplaims, to bring the Tumours, if possible, to Suppuration. Sylvius begins by refolving the Jaices, which by a great Acidity are Coagulated, endeavouring to bring them again into their proper Veffels, and to carry off the rest by Stool and Urine. Outwardly he anoints the Tumour with that Unquentum Martiatum which is mixed with Oleum Philosophonum, and applies a Resolving Plaster over it; and if that has no Success, he goes to Suppuration, and proceeds with the Cure as in other Wicers. The Cartefranists use all means to dissolve the Viscous and Glutinous Particles from the Angular, and bring them from their Repose into Motion. To this end they chafe the Tumours with warm Napkins, and use divers Sorts of Fomentations and Internal Medicines, to Attenuate and diffolve the Viscous and Glutinous Matter, and prevent their further Goagulation.

By these Methods you may perceive what is fit to be done in the Cure of a Scrophulus, which must be enterprized by Medicines that have Power to Temper and Correct the Corrolive Acid Matter, and open Obfiructions occasioned by it. The Salia Volatilia are very necessary in this Cafe, and fometimes perform their Work to Admiration. Now I shall proceed to give you some Specificks which have been used with great Benefit, and begin with Monfieur Petit's admirable Platter to difperse those Scrophule, which is thus prepared. It is talking the grawolles of yloge of

Liquors in the Giands, and brings them B. Gumm. Ammon. Opopan. Galban. ana in Vino Solut. 31j. Spermat. Mons. Petit's Ceti 3jis. Sal. volat. C. C. Cinerum Fagi ana 3j. Magnetis Arfe- Plaster. nicalis 3v. Croci opt. 3ij. Mercur. vivi c. f.q. Terebinth, extinct. Zijls. Ol. Terre 3vj. Ol. Tartari fætid. Stij. Ceræ thj Terebinth. q. f. m. f. Emplastr. Spread it upon Leather, and apply it to the Camin, and Is. come & s. q. fev. vier as Caraf. nuominT man

The following Plaster is my own, which I have used very often in the Beginning of a Scrophulus with very great Benefit. The Albert Andrews O. H.

Be Emplastr. Divin Atraphan. 3vj.) de Hyoscyamo Diaphor. Myns. de Ran, cum Mercur. Scrophular. Vigon, ana Juj. Sal. Armoniaci puriss. 3ij. Gumm. Ammon. Opopan. ana 3jis. Emplastra liquefacta, immisce etiam superiora Gummata; & paulo post Sal Armon, tandem adde Calcis vive 3j. Sal. Ciner. clav. 3v. malax c. f. 9. Ol. Philosophor. & Unguent. Arthrit. f. L. a. Emplastrum. Al 9 ods bas

Popus Phyfici box HO ans

Plafter

The Emplastr. divin. Atraphan. abovementioned, is made in this manner.

Atraphanus's Divine Platter. R. Ol. Olivar. thij. Vini alb. gener. thj. coque ad consumptionem humiditatis vini dein. admisce, Lythargyr. Zvj. omnibus bene mixtis & paululum refrigeratis adde agitando, Ceræ lique fact. this. Cerusse 3iij. Gumm. Animæ 3iis. Spermat. Ceti 3ss. Camphor. 3ij. m. f. Emp.

Next follows Dr. Muraltus's Specifick for this Disease; I never used it, but have heard it much commended by Persons of great Ingenuity.

Muraltus's Specifick. B. Gumm. Tragacanth. 3j. Succ. rad. Bryon. 3ss. dissolve & adde Farin. Fabar. 3ij. Mercurii Subt. 3ij. misce siat Sp. ad Mass.

Take a small Peice of this Mass and lay it right upon the middle of each Serophulus, tying it fast that it cannot move, let it lie so three Days together, and if no Alteration follows, it must be repeated as long as you think convenient. Dr. Tralles lately communicated the following Plalaster and Oil to me, which was given him by Dr. Totzi, the Pope's Physician in Rome. The Oil is to be applied to the Scrophula, after it has been well chased with warm Napkins, and then the Plaster over that again.

Dr. Tetzi, the Popes Physician's, Oil and Plaster.

- B. Ol. Amygdalor. dulc. 3j. Philosophor. 3ij. Chamomil. Anisi ana 3iss. Spirit. Salis Armon. Elix. vitæ ana 3j. misce serv. pro usu.
- B. Empl. de Hyoscyam, de Sulphur, Scrophular, Sylvii ana zvj. Ol. Cort. Betulæ ziss. Picis Naval. Ceræ ana ziv. Sulphur, citrin. Massich. Succin. ana ziss. Sal. Armon. Antimon. Crud. ana zj. Malax. cum s. q. Ol. Philosophor. & Tartar, sætid. m. f. ad Empl. formam.

If the Tumours continue after these Applications, it will be convenient to apply the following Cataplasm of Dolaus, which rarises the stagnated Liquors in the Glands, and brings them into Motion. It must be applyed warm, and repeated every three Hours.

Dolaus's Cataplaim, Re Fol. Scordii, Absynth. Rute, Cicutæ ana Mj. Stercor, columbinæ 3vj. Sal. Tartari, Colocinth. ana 3vj. Herb. Salviæ Mj. Sem. Hord. 3v. Sem. Fæniculi 3iss. Sal. Armon. 3ij. Extract. Rad. Bryon. Sem. Cumin. ana 3ss. coque c. s. q. fæc. vini ad Cataplasmatis formam.

The Glands must also be anointed with the sollowing Unguent of Dr. Overkamp, which is of admirable Vertues in the Cure of a Scrophulus.

Dr.Overkamp's Ointment. Be Unguent. Dialthea 3j. Ol. Succin. Juniper, and 3ss. Laurin. Philofophor. Spir. Salis Armoniac. and 3iis. m.f. dilig. ad Unguent.

When there is no necessity for the Cataplasm, use only the following Plaster of Dr. Overkamp; you may also use the forementioned Ointment, and the Plaster over it.

Be Emplastr.

Be Emplastr. melilot. Diachyl. ana 3iij. Gumm. Galban. 3ss. Labdan. 3iss. Dr. Overpulv. Myrrhæ, Aloes ana 3ss. Macis, Caryophyl. ana 3ij. Sem. Cu-kamp's Plaster: min. Rutæ, Salviæ ana 3j. Tinctur. Laud. 3ss. Styr. liquid. 3ij. Sal. Volat. C. C. 3vj. Ol. Mastich. distil. 3iij. misce f. c. s. q. ad Empl. form.

I have added some more Melilot and Diachylon. Simpl. to this Composition, as also Wax, to bring it into the Consistence of a Plaster, which was too little according to Overkamp's and Dolaus's Prescription. If any thing

else is wanting, you will find it in the following Observations.

In February 1694. I had a great Merchant in Cure, who had a Scrophu-3. Historical lus Tumour below his Right-Ear, about the Bigness of a Wall-Nut; the Observations of Centleman was otherwise in Health, and without any Pain in the Tumour. Dr. Tralles and Dr. Paulus used several internal Medicines to correct the Disorder of the Lympha. I used at the same time Artaphanus's Plaster mixed with Ol. Philosophor. Tartar. Fætid. Sem. Cumin. and applied it warm to the Part affected; but it made no Alteration. At length we resolved to apply the sorementioned Plaster alone without any Addition, and upon the Centre of the Gland apply a Corrosive ex Argento Aqua fortis, with which I made an Orisice about the Bigness of a Farthing, and kept it open Eight Weeks with the following Unguent, till the materia pectans, the Tumour and its Hardness was utterly consumed.

B. Unquent. digestiv. Ziis. Ol. Ceræ Ziis. Balsam. Peruvian. Ol. Philosophor. ana Zis. Gumm. Opopan. Pulv. Myrrhæ ana Zij. Sapon. Venet. q. s. m. f. Ungu.

This Ontment and the other Applications succeeded so well, that in less than Fourteen Weeks, the Tumour was quite gone, and the Patient

continues ever fince very well.

A great Lady, then a Widow, and living on the other fide the Oblau, History 2. was afflicted with such a like Tumour in the Year 1696. on the Lest-side of her Neck, very near the Wind-Pipe, whom also I was so happy as to cure persectly in Five Weeks time, only with Emplastrum Mynsichti, which is thus compounded.

Re Ceræ thi. Picis Naval. 3iv. Colophon. 3iij. Bdellij. 3vj. Gumm. Am- Mynsiche's Plamoniac. Opopan. ana 3is. Succin. Citr. 3iij. Sandarac. Mastich. Oli-ster. ban. ana 3ss. Ol. Tart. sætid. 3iij. Ol. è cort. Betulæ, Unguent. Arthrit. ana 3is. Terebinth. q. s. m. f. Emp.

Tho' this Medicine had its defired Effect upon this Lady; yet I dare not aver that it will always perform the like. No, The following Ex-

ample and our own Experience, will shew the contrary.

A Lady of Quality, about twenty Years of Age, living in Albrechts Observation 3. street in this Town. In the Year 1696. A Year after she was married, and when she was with Child, had a Scrophulus on the Right-side of her Neck, which I treated in the following manner, and with all the Diligence in the World. First I applied a Cataplasm to it sourceen Days together,

gether, upon which the Tumour grew a little softer, but continued in the dame Bigness. After that I apply'd my own Scrophulus Plaster to it twice a Day for a Month together, but without any Benefit. Then I continued the Use of Mr. Petic's and Dr. Totzi's Plasters; and they also signified nothing. I also applied a Corrosive to the middle of the Scrophulus and made an Orifice in it, into which I put the forementioned Unguent, and kept the Hole open several Weeks, but it availed nothing at all. In short, neither Outward nor Inward Medicines contributed any thing to it that look'd towards a Cure, but all we did was in vain.

In February 1604, I had a great Merchant in Cure, who had a Streame 3. Hillorical has Tumour below his Hight-har, about the Bignels of a Wall-Nur; the Observations Gentleman was otherwise in Health, and without any Pain in the Tumour.

elle is wanting, you will find it in the following O fervations.

Dr. Trailes and Dr. Fand XXX fev. Al Artha Medicines to correct the Diforder of the Lympha. I used at the fame time Arraphanus's Plaster

mixed with the following the state of the Court and applied it werm to apply the forementanded Plaster, without any Addition, and upa to apply the forementanded Plaster, method and the courte of the Gland apply a Corrolive extension of the Gland apply a Corrolive extension of the Courte of the Gland apply a Corrolive extension of the Courte of the Gland apply a Corrolive extension of the Courte of the Gland apply a Corrolive extension of the Courte of the Cour

How they be HIS Loathsome, Filchy Disease, extremely injures and disfigures the Face, especially if its settles on the Fore head, Ears, and about the Neck, as I have often observed in my Practice. At first they appear very inconsiderable, and only Itch and Fret the Skin, but soon increase and grow worse, and are very difficult and hard to be cured.

Their Causes. The Causes of this Distemper are Loathsome, Acrid and Acid Humours under the Skin and in its Glands, proceeding from an ill Constitution of the Lympha and its fixed Salt, which affecting the Pores of the Skin, cause a dry kind of Itch with little Pimples and Scabs, which breaking thro, at length and by degrees make the Skin all over rough and scabby, by which others may be infected if their Constitutions are that way inclinable, or their Juices out of Order; which is a sufficient Debortation from frequenting the Conversation of Persons so diseased. Several other Causes are assigned as the Original of these Tetrers and Breakings out, but I think them not worth mentioning; and therefore will apply my self to the Cure, which is more the Chirurgeons Business, and what he may easily person if he is provided with good Medicines.

Their Cure. The Cure of these Impetigines must begin with good Internal Medicines to correct the Lympha; and then wash the Tetters two or three times a Day with the following Water, and as soon as that is dried in, anoint with the following Unquent, and you will soon see them vanish.

R. Unguent. Rosar. mis. Alabastr. ana ziss. Mercur. Dulc. zij. Sublim. gr. iv. Ol. Tart, per deliquium, Ol. Sapon. Ceræ ana zj. misce ad Unguent. The Water is thus made.

R. Lixiv. fortissim, è Ciner, vitis & Fraxini thij. Aceti vini Zviji.

Litharayr. Zvj. Antimon. Crud. Zils. Alumin. Nitri pur. ana 31s.

coquantur continuo agitando ad consumptionem quart. partis, coletur, and Sis.

Servatur ad usum.

The

The following Water or Mixture I have often used, with great Benefit in such like Perigines and Tetters; its is my own, and the particular Water which Duse in these Cases notes year of the work of the cases of the case of the cases of the cases of the case of the ca

-us flore semigits and he veta Westie West benotten moved you belt I eved -us flore Alum uft. 3ij Cerufs. Tutie ppte ana 3is. obol. Alb. 3ij mercur. Sublimat. 3j. Myrrha, Campbor, and Biils. Aquil Rosar. Plantage and 3vj. Lixiv. Calc. viv. 3iv. m. f. Aq. s. artem. per. 10 dies, digest. elic in m. Calide application. 22 and and lost of sain I

Myrrha, Oliban, and S. Camphor. Div. Aqua Plantagin. Fior. Sambur of they are very continuous should be and to the ordinary Methods of Cure, you must apply stronger Medicines, and touch them with the following Water.

These two Remedies I continued some Weeks with good Success; the

ne sud : Riffel. Bolan Chelidon Hysfopi, Salviæ, Rute, Scordii ana Mj. rad.

Simol of Tormentill. Zj. Cerustæ 3iij. coquantur v. Agus Plantag. & Aqu.

Mell, ana thij. per Sem. horam, Colaturæ adde mercur. viv. in aqu.

drive boldusories dissoluta zij. misce omn. & servetur peo asu. o gano A

I doidw was bus son son son successive servetur peo asu.

If you don't approve of this, I recommend the following instead of it, which I have used many Years with great Success; but you must remember to fir or shake it very well before you apply it, and if you warm it twill operate the better.

B. Fol. Hyssopi Plantag. Alchimill. Solani, Centaur. min. Hypericon. Scabios. ana Mj. Flor. Malvæ maj. Miss. rad. Tormentill. Aristoloch. long. & Rotund. ana Ziij. Incis. & contus. f. Decoctio s. a. in s. quant. Aquæ Font. exprime, colatur. adde rad. Tormentill. & rad. Aristoloch. rotund. pulv. ana Zis. postea immisce Mercur. viv. in Aq. fort. dissol. Zij. stat s. art. Aquæ ad Impetigenes.

When the Distemper is Inveterate, Malignant, and Stubborn, and all other Medicines seem too Weak, I use the following Water.

B. Aq. Rosar. Flor. Fabar. ana 3vj. Tutiæ ppt. Lap. Calaminar. ana 3ss. Alum. usti 3iij. Vitriol. alb. Merc. Sublimat. ana 3j. Ol. Sulphuri Diiss. pulv. rad. Gentian. Diij. misce diligent. & serv. prousu.

Now if you please to follow my Advice, let the Tetters be as Inveterate and Stubborn as they will, the Medicines I have already incerted will certainly perform the Cure, if they are curable. In the following Historical Observation, you will see what Cures I have performed with those Waters, and also one of several Years standing, that could not be cured.

In February 1690, a young Gentlewoman, a Merchant's Wife about Observations Twenty Four Years of Age, was recommended to the Care of Dr. Pauli Historical. and my self, who had several Years been troubled with a nasty Breaking-out about her Ears, and had used abundance of Medicines to cure it, but to no purpose in the World. She was otherwise in good Health, complained of no great Aches, but now and then of a Disorder and Pain in B b

her Head. Dr. Pauli prepared her Body very well with Internal Medicines, before I used any Outward Applications. I began the Cure with my Golden Milk, because they watered very much. After Four or Five Lac Aurentum. Days I used my abovementioned White-Water ad Impetigines, and towards Night the following Fomentation warm, in which were moistened double Linear Bolsters and applyed.

Re Tutiæ ppt. Bol. Armen. ana 3 ss. Sacchar, Saturn. 3ij. Alam usti 3 is.
Myrrhæ, Oliban. ana 3j. Camphor. Div. Aqua Plantagin. Flor. Samyisnibio buce, Rosarian ana 3iij. Camphor. S. Myrrhæ, Solv. in pauco Spir.
medi dowini m. f. svansfomentiognosti ylaga slum nov and to about M.

These two Remedies I continued some Weeks with good Success; the Sores began to heal, only now and then would break out a little; but at length went all away by Degrees, and in Ten Weeks Time the Gentle-

A young Countess about Fourteen Years of Age, was also troubled with the like Distemper for several Years, about her Face and Ears, which I treated with the aforesaid Medicines, but to no purpose at all; for they continued as bad as ever. Dr. Trailes being concerned with me in the Cure, and seeing nothing would prevail, we resolved to put her into a Flux, and accordingly she was Salivated by Unction, which succeeded so well, that she was perfectly cured of this noisome Disease.

Scaling Alantag, Alchimill. Soland, Centour, min, Eropericon.
Scaling, and Mj. Flor. Malvæ maj. Mils. rad. Tormentill. Ariffoloch.
Tong. & Rotund. and Ziij, Incif. & control, f. Decedio. a., in s.
quant. Aque Font. exprime, colatur. adde rad. Tormentill. & rad.
Ariffolock, rotund. pulv. and Zss. poftea immisce Mercur. viv. in
An fore. dissol. Zij. frat s. art. Aque ud Impetigenes.

When the Difference is Inveterate, Malignant, and Stubborn, and all other Medicines feem too Weak, I tile the following Water.

B. Ag. Rojer, Flow, Fabar, and Jyj. Tutice pit. Las. Calaminat. and Fis. Alum. ufti Silj. Fitrick. alb. Merce. Sublimat. and 34. Ol. Weres Sublimat. and 34. Ol. Weres Sublimet. Brills. pubu. rad. Gentian. Bij. mifce diligent. C. feru. 210

Now if you please to follow my Advice, let the Tetters be as layererate and Stubborn as they will, the Medicines I have already inherted will corrainly perform the Cure, if they are curable. In the following Hiltorical Observation, you will see what Cures I have performed with those Waters, and also one of several Years standing, that could not be

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and stagnating in one place or other, in time produces Warrs. This may be eafily perceived by their Substance, which does not refemble Field, but the Nerves, allXXX the enth Dhey are to tenible and apt to bleed, and if indifcreetly treated, cause Inflammations and other ill Accidents. Carailucius (ays, they proceed from a (tiper-abundance of Ganglia Veruccan & Tuberculæ, or Wartsmand Piniples on the According med take the proceed and that take them amend the corpores Water in a sometimes no tays, they are couled by outward Accidents upon the Skin, as Walhing in the same Water where

anglile rare certain kind of Tumours commonly found upon the Ganglions what Juliantes, which by degrees grow hard, and hinder the regular Mo-they are, tion of the Limbs. | Some are from and immoveable, others may be pushed from fine fide to the other and are mor painful under the Touch. At first they may be easily cured by proper Medicines; but if they are of long Continuance, they delpife the firongest form of Meditines, and must be cured in panother manner, las I shall the wo anon A Some rate inclosed in their proper Skin or Bag, as I have often observed; but others not, and are lonly meet Nervous Tumours, of the fame Colour with the Skin bus bh We find by Experience than these Ganglions often proceed from some The Cause of accidental Hort on Bruile; fometimes by over firaining, by which the them. Menver lare injured, and nearles part of the Succes to congeal under the Skin, which makes a Tumour and Ganglion We mult also allow, that these Ganglians formetimes come without any accidental Hurt but from and Atteration and Extravalation of the faires and a stagnated Lympha. which affecting the weak Nerves and Tendinous Parts of the Junctures fertle neard those Parts, and growing Glutinous and Vilcous, caule a Gan- and to allow glion, which in time, if the place permits, grows bigger, and acquires a proper Skin or Bag in which it is inclosed br. Munick in his Praxis Chie rutgica tha foribes the Cable of thele Gang lious to the hurt and Over-frain *Lib. 1, c, 10, ed Tendons which with their Fibra Mation were turned and brought in P. 74. to Diforder for that their Liquors which Vhould run through them, and their finest Poruli, settle between those Fibres, and at length by the Increase of those Liquorse which are forced upwards above the Tendons towards the Sking it grows Wifcous, and in Colour and Confiftence like the White of an Eggl. This gathering of Crafs Particles clinging in time together and the Volatile and fubtile Particles evaporating growing Inwererate, and being inclosed in its proper Cift, is called a Ganglion.

Warts are nothing else in all Mankind than a fort of Excrescences, like Warts, what those that grow about some Trees. Sometimes they happen in the Face, they are. but ofther fon the Hands and Feet; and wherefoever they come are Bles and lands milber, and very unwelcome Guefts to the Female Sex, because they feldom come valore, but spread surther and further a Some rife higher out of the Skin, and have but a shallow Root: Others are hardly seen above the Skin, but have very deep broad Roots, and multiply in a shorter time, fome are only Prominences, uneven at the rop, Ath-coloured and rough, while others are smooth and round, and all differ in their Magnitude and imac. Philosophor, Tabaci and 3j. Caftorei 5 is Tartar, feetistigist

They proceed from the Extravalation and Extrasion of the Succus Nu- Their Causes. tritius, which generates the Nerves, and when some or other of the small Fibræ Nervorum are hurt, some of the Juice contained in them runs out,

and stagnating in one place or other, in time produces Warts. This may be eafily perceived by their Substance, which does not resemble Flesh, but the Nerves, and that's the reason why they are so sensible and apt to bleed, and if indifcreetly treated, cause Inflammations and other ill Accidents. Cardilucius says, they proceed from a super-abundance of Corporeal Nourilliment, which by a corrupt Ferment, or other outward Accident, is forced towards the Skin, and there, by irritating the Succus Corporis Nutritius, cause Warts. Sometimes he says, they are caused by outward Accidents upon the Skin, as Washing in the same Water where a Perform washed before that was troubled with Warts, which the fays. will infect the Skin and breed Excrefcences.vd A Drop of Blood falling from a Warr upon a found place of the Body, will, herfays, have the fame Effect; but I don't intend to impose these things upon the Readen but leave him to believe what he pleases concerning them ad year year

they are.

Pimples what of Pimples or small Bumps upon the Face, like Miller out Semen Canabis. first begin about the Nose and Forebead, and from thence increase and spread further about the Face. They are white at their first Appearance. and without Pain; some of which Suppurate, and at last emit a little white Matter if they are squeezed; others grow dry of themselves, and afterwards very Red, fomewhat larger and bigger, and yet contain white Matter in them: These also cause no great Pain, unless they are squeezed very hard. At length having got the upper-hand, the white and red Pimples vanish and become great red Bumps and little Tumours, especially in great Wine-Drinkers and common Drunkards; and then are called Rus bra Facies, and Gatta Rofacea. wo T bue source Meaw and guitable doidw

Cause of Pim The Cause of these Pimples is partly a Hot and Inflamed Blood and Liquors thickned by a too great Acidity, which by the Impulse of tother Liquors, is driven towards the Skin, and Stopping in the small Veins cause small Pimples; but if they increase and obstruct the Glandules of the Skin about the Nofe, they grow into larger and redder Bumps, or fmall Tumours. Sour Drink and Victuals is also said to be another Cause of Parelli fettle between those Fibres, and at lengragmathic sint

The Cartefianists, and especially Dr. Dolaus, say, that in the Fat Parts of the Body, and especially in the Face, where the small Vessels abound with Spirits and Nutrimental Juices, there may eafily happen an Extravalation of fuch fuices in the Skin, which coagulating there, produce Pimples, Blifters, Morphew, and Bumps in the Face, and spread all over Warts are nothing elfe in all Mankind than a fore of Exercicences, hist war

cure of Ganglions.

In treating of the Cure of these Distempers, I will first begin with Gangliens, which I have often cured, only by Crushing them hard with both my Thumbs, or by giving them a Blow with a broad piece of Wood or a Book, which dispersing the Matter, I applyed the following Plaster of the Skin, and have but a fhallow Root: Others are hardly comentror

the Skin, but have very deep broad Roots, and multiply in a florter time,

tritive, which generates the Nerves, and when tome or other of the fmall

Be Emplastra Diaphoret. Myns. Oxycroca ana 3iss. de Ran. c. Mercar. bas el ana 3ij. Castorei 3is. Tartar. 3ij. de Gummat. Sylvij 3iis. Ob. Limac. Philosophor. Tabaci ana 3j. Castorei 3 ss. Tartar. fætid. Div. Flor. Sal. Armon. Bij. m. ad Empl. 12 and mort besoon vall I

> Fibra Nerweyer are hurt, fome of the Joice contained in chem this out, I have

I have often known the following Plaster dissolve and take away these Ganglions, without any other Trouble, if they have not been of a very long Continuance.

Remplastr. de Ranis c. Mercur. dup. Zvj. Cerat. de Galbarid, Gum. Ammon. Bdellij. in Spir. Vin. Succin. ana 31s. Sulphur. Citrin. Zj. Calt. viv. Zs. Ol. laterin. q. s. misce s. Empl. s. a. il lazillatin. doing medt

duire, though the following Plafter of Dr. Blanckard, which fucceeded out of the following Plafter of Dr. Blanckard, which fucceeded out of the very well.

B. Emplastr. Oxycroc. Zj. Gum. Ammon Bdellij. in agu Vit. Solut. and Dr. Blanck-Zij. Flor. Salis Armon. Zj. Ol. Terebinth. Zjij. miste cum's. q. Cêre ard's Plaster. ad Empl. and Empl. a

There are other Remedies prescribed by Learned Authors, which I shall not omit fetting down, that the Artist may have Plenty of them. Dr. Etmuller commends Folia semper vivi majoris, the Inward fine Coat of the Leaves being first pulled off, and the rest applyed to the Ganglion, Morning and Evening. Dr. Wedelius praises a piece of beaten Lead rubbed with Mercury, and applyed after the Part has been well washed with Spirit of Wine camphorated. Dr. Stortia prescribes Emplastrum de Ranis cum Mercurio trip. Ziv. Ol. Guiac. Siv. misce. Cardilucius puts some Drops of Esula major upon a great Leaf of Semper viv. and then tyes it fast upon the Ganglion; or elle he takes Dead Bees and applys them upon it, and after they have lain there some time, takes them off and buries them in the Ground, under a place where the Rain drops from the Houses, and does the same with the Fol. Semper vivi. Vestingius advises to apply a good piece of Beaten Gold upon it, the Ganglion being first rubbed with Ol. Tartar. fætid. vel Laterinum. Monsieur Du Pare, Chirurgeon to the French King, commends Herba perfoliata boiled in Wine Vinegar, and applyed warm. Monfieur de Roy, Chirurgeon and Anatomist at Paris, never applied Emplastr. Dia sulphur. Rulandi mixed with Off. human. pulv. & femper viv. but with good Snccess. Peter Burger uses the abovementioned Plaster mixed with Gum. Ammon. & Sagapen. in Spir. vin. folut. Barbetti his Emplastrum Divinum. Sylvius adviseth the Application of the followtoo last. But if there be any Hores, make use of the following and

B. Emplastr. Carminat. sui 3j. Unguent. martiat. 3ij. Ol. Philosophor. Tartar. ana 3ij. f. L. a Empl.

Paracelfus adviseth to rub the Ganglion with the following Mixture-

R. Ol. Myrtill. 35. Ol. Nuc. Moschat. 313. Axung. Jument. 33. Petrol. ad pondus omnium.

But if the Ganglions are very old and contumacious, and the places will fuffer an Incision, excoriate them, or take hold of the Ganglions between your two Fore-Fingers, and beat upon them two or three times with a wooden Mallet and they will soon disperse.

Cure of Warts The Cure of Warts confilts chiefly in substracting their Nourishment, and plying them with Corrolive Medicines to bring them to Morrification. Spir. Vitrioli, Nitri, Butyrum Antimon. Agu. fortis, and Cale. Fig. perform that Office very well; but take care to use but very little at a fime, and repeat it offen, having a good Lixivium ready to walk the Warts with, to temper the violent Acidity of the other Medicines. Some only employ fantastical Remedies, as stol'n Bacon, Pork, or Leaven applyed to them, which afterwards they bury in the Earth: But why Warts fometimes vanish after such Applications, I don't think it worth my while to enquire, though much greater Accidents, as Fevers, Agues, Running Sores, &c. do often cease upon the use of such Chimerical Remedies, which pro--Amala of ceed from nothing but the ftrength of Fancy and Imagination ... Here I will

infert the Prescriptions of Learned Men for the Cure of Warts.

Dr. Overkamp advises to apply Calx viva upon the Wart, with Cotton round about it, and cover it with a good sticking Plaster to keep it fast. Blanckard commends the frequent Washing the Warts with the Juice of Gelendine and Vinegar-Pickle, Fabricius Hildanus prescribes a Corrofive made of the Lye of Pot-Ashes, and Ashes of the Vine mix'd with a little Calx viva, and applyed upon the Parts affected. Timeus from Galdenklee, mixes Oil of Vitriol with thick Honey and applies it. Borellas uses only Honey, Water in which Sal Armoniac, has been dissolved. Mr. Hannel uses his own Unguent. camphorat. mixed with Sal Tartari, & Oi. Sapon. Cardilucius prescribes as a certain Remedy, Rain-Water found on the Stump of an Oak-Tree or upon Cow-Dung, wherewith the Warts must be washed, Mr. Ferrant praises Ol. Origani & Sesamin. Monsieur de Billy, a Chirurgeon in Paris, directs the making of an Ointment of the Ashes of the Vine Tree and of a Willow, mixed with Vinegar. Tulpius commends the following Plafter . Live rooms? John orth thin amel orth

Tulpius's Plands of B. Emplastr. Oxycroc, Diachyl. compos. and j. Succ. Alli, Puleg. The fter for Warts. Dan efcyam, ana 3ij. Sal. Armon. 3j. Picis Naval. q. s. fiat Empla. app'ved warm. Monficur de Roy, Chirurgeon and Anarement at Paris,

Pimples at first being commonly like the Skin in Colour, and with-out Pain, the Patient seldom looks after the Cure of them; but when Cure of Pimples. they grow bigger, Redden, spread all over the Face and disfigure the Countenance, then they begin to enquire after a Cure, and sometimes tis too late. But if there be any Hopes, make use of the following Water which I have nied with Effect.

> Be Ayu. Flor. Fabar. Spermat. Ranarum ana 3iij. Solani, Rosar. ana 3ij. Pulp. Citrin. Sigill. Salomon. Lill. Alborum 3jis. Ol. Tartar. per deliqu. Biij. Sacchar. Saturn. Tinct. Benzoin. ana Bis. Boracis Venet. Ceruss. lot. ana 3j. Mercur. dulcis 36s. m. f. L. a mixtura.

Remember to shake it very well as often as you use it, and washing the Face with it, give it time to dry in of it felf. If any think the following better, they may use it. To blod adar to med account on molification and localities and localiti your two Fore-Fingers, and beat upon them two or three times with a

trangent Vallet and they will loon disperse.

oril

R. Unquent. Rosat. Alabast. ana 3j. Flor. Sulph. 3j. Latt. Sulph. Div. Dr. Michael's Sacc. Saturn. Ocul. Caner. ppt. ana 3118. Ol. Rosar. Tart. per deligu. great Secret. ana q. s. m. f. ad Liniment. formam.

This Medicine was a long time kept and great Socret, in the Possession of Dr. Michael at Lipzick. And for much for the Cure of Ganglia, Verucca and Tuberculæ, in which they will find that makes use of the Medicines. that I have revealed the best of the kind, and what they may fafely rely soluta's of the IN the greater Corner of the Eye is a Gland called Glandula I ... noqu

In August 1689. I had a Gountess in Cure, who was evoluted with ha very large Ganglion just over the Right Eye, which had continued above Four Years, tho in all that time the left nothing unarrempted in which there was hopes of a Cure, thought to no purposed The forto Higher Davis course it at large in this nation of ashor in raffall gaiwollof, and ballque I

entre de Holbital et l'anne, serophilar vigonis una gij. Flor. Salis After which the Hair on the Eye-brow being shaved off, I took hold observation v.

of the Ganglion with the two foremost Fingers of my Left Hand, and pulled it gently forward to facilitate the making an Incifion with my Right Hand, and with the Handle of my Knile to Teparate the Ganglion from the adjoyning Parts, and take it quite out; which was done in less than a Minutes time with good Success. Some make more to do than is necessary in this Operation; they thrust a Needle, and draw a double Silk through the Skin, that by laying hold on the Silk they may the better pull up the Ganglion; but I never made use of this Method knowing that my kingers were fufficient to do it, and also very helpful in cruthing the Ganglion upwards, and extending the Skin, which very much conduces to a fafe and speedy Operation. Yea, I have very often, after having made a good Incition, by only squeezing to with my Fingers, taken it quite away! And thus this good Ladyein Eight Days time was perfectly, cured of her Diftemper. it don't will be brew

In September 1689, a Noble-man in this Town came to me to be cu- Observation s. red of a great Wart on the lower Part of the left Side of his Neck, which was as broad as a Half-crown Piece, and the Root went quite along under the Collar-Bone, which I brought away with a Corrofive made of Silver and Aqua fortis, and it continued well about half a Year, but then returning, I was forced to make an Incifion as deep as I could, and by and by that means to perfectly eradicated it, that it never came again.

Pricking, afterward an Inflammation, and at last a Corcoding Olcer. The longer these Humours grow, the worser they are, if not timely corrected; for they not only corrupt and (poil the Glandule, but also the Bone that lies under it; yea, at length the Cartilege of the Eye-lid, and the Eye it felf is in Danger. Dr. Overkamp is also of Opinion. That the Caulo of this Olcer and the Fiftula's proceed from a Viscous Acid Matter, which in its beginning taking hold of the Glandula, causes an Inflammation, and

degrand of this Discase is sometimes very difficult, and requires a diligent and able Chirurgeon. At first, when it is only an Colcer, it may

& Unquent, Rolat Alabalt, and Ti. Flor. Sulph 31 Lad. Salph, Siv. Dr. Michael's

Refar. Tare, per doffen Brest Source

C H A P. XXXIII.

Ægilops or Fistula Lachrymosa, and other Fistula's of of M. Michael at Lipsick. send Jan Bones and Teeth and Taberolle, in which they will that that makes use of the Medicines,

Fiftula's of the Eyes.

that I have revealed the best of the kind, and what they may fafely rely N the greater Corner of the Eye is a Gland called Glandula Lachrymatis, which is subject to very dangerous and ill Accidents; especially if a Fistula is caused by a continued Defluxion of sharp Humours, an illcured outward Impostume, or an Olcer called Anthylops: And perhaps some time the Bone that lies under it is Rotten and Carious. I will difcourse it at large in this Chapter, and in the Conclusion treat of the Fiftula's of the Jaw-bones, reserving Fistula's in general to be handled in the Third and Last Book. And first, for the Readers better Understanding, I will spend a little time in explaining the Circumstances and Nature of

thele Fistula's, which will add a greater Light to the Cure.

Their Defcription.

This Glandula Lachrymalis is appointed by Nature, to receive a Pro portion of Lympha, or Moisture, to Inbricare and humed the Eye, and promote its regular Motion; which if not supplied by a sufficient Quantity of Moisture, would be hindred and uncasie in moving. It has also another Office, and that is to prevent the continual Afflication and Running out of Tears. If there is plenty of this Moisture in the Gland fends it orderly to the Puncta Lasbrymalia, which lie near, and from thence into the Naffrils to be evacuated; but it is furcharged by a continual Influx of Moisture, then it wells, and the Lympha growing sharp and thick by its too long standing, it begins to Impostumate, and causes feyeral ill Accidents. Sometimes there is nothing to be feen in the Upper Part of the Gland, and it's only well'd at the bottom about the Root which may eafily deceive the Chirurgeon, but af he prefies hard and deep with his Fingers, it will fend forth a Stinking and Might and after ward a Serous Matter; which if not diligently treated, and carefully cleaned and dried, not only becomes a filthy nafty vicer, but will corrode the Parts about it, grow Malignant, and fend forth abundance of Corruption, which forcing its Way, downwards, often cautes Cavifies, and in time a Fiftula, for hollow Cliero under the Name of Fiftula Lachry

Their Causes.

Its Cause is a Subtile, Acrid and Saline Humour, or a Degenerated Lympha, which stagnating in this Glandule, causes at first an Iteling and Pricking, afterward an Inflammation, and at last a Corroding Vicer. The longer these Humours grow, the worser they are, if not timely corrected; for they not only corrupt and spoil the Glandule, but also the Bone that lies under it; yea, at length the Cartilage of the Eye-lid, and the Eye it self is in Danger. Dr. Overkamp is also of Opinion, That the Cause of this Vicer and the Fistula's proceed from a Viscous Acid Matter, which in its beginning taking hold of the Glandula, causes an Inflammation, and afterward an Vicer, which being neglected, becomes a Fiftula.

Their Cure.

The Cure of this Disease is sometimes very difficult, and requires a diligent and able Chirurgeon. At first, when it is only an Vicer, it may

"Chirara-

1 2, 9, 385

Chahustin's

be easily conquered; but if it becomes a true Fistula Lachrymalis, it will be a tedious Bufinels, as well because of the continual Supply of Matter, as of the constant Motion of the Eye, where also a Ligature fignifies but little, because the Corner being deep and hollow, will refist all Gentle and Easie Medicines, and Sharp ones are not to be used, lest the Eye it felf should be injured. The Fistula's of the Eyes differ much in Quality and Circumstances from other Fiftula's. If it be only an Old Ulcer, and its Edges and Lips are not hard or callous, Medicines must be appropriated accordingly; if it's grown to a perfect Fiftula, and the Bone yet unhurt, the Cure must begin in another manner; but if the Bone is Rotten, the Cure is very difficult; for befides Medicines the Actual and Potential Cautery must be employed. Above all things prescribe your Patient a proper Diet, and endeavour to throw off the offending Humour, as much as possible, by Stool and Vrine. Make a Fontinel on the same side in the Arm, and instead of Wine or Beer, order him to drink a Decoction appropriated to his Circumstance. If there should be a large Cavity and Swelling, and the Orifice of the Fiftula but small, the Chirurgeon must without Fear make the Hole bigger with a Lancet, or a new Incision a little lower downward, if it may be done with Safety; because the Matter must be brought away from the bottom as much as is possible; for what will it signifie, if you squeeze out the Matter two or three times a day, when the continual Afflux of Humours, and gathering of Moisture soon fills those Cavities and Glandules up again. Not to mention the great Advantages and Ease such an Incision gives to the Glandules and the Neighbouring Parts, the Medicines which are applied to it, will effect very much, where before they could do nothing. In the Cure therefore, first make use of Exsiccating, Deterging, and Dulcifying Medicines; among which the following Powder is very property

Be Pulv. Ophthalmic. Mynfic. 3jis. Trochife. alb. Rhafts 3ijis. Saechar. Saturni 3 ij. Plumb ufti, Spodii ppt. Cort. Austr. ppt. ana 3 j. Sacch. Cant. alb. 3ij. Myrrh. Aloes and Dj. misce f. ad Pulverem subtiliffimum.

This Powder must be pressed or blown into the Fistula with a Quill, two or three Times a day, and the Eye-lid closed to keep it longer in, and you will find it temper the Acrimony, correct the Matter, and bring the Fiftula into a better Posture. Always apply upon it double Linen Rags moistened in the following Fomentation, and that as warm as it can be fuffered.

B. Tutiæ ppr. Cerussæ calcidat. ana Zjist Sacchar. Saturni Bijs. Alum. ufti 3ifs. Iroch. Ophthalm. Mynfic. 3ij. Camphor. 3j. Myrrh. Div. Pulv. Thee, Flor. Sambuc. ana 3iij. Agu. Flor. Cyax. Plantag. Na 10 Rofar. ana Zix. Camphor. Myrrh. John in pauc. Spirit. Vini, posteg in loco calido digerantur, & ferv. pro ufu. ale Dide ni noito a millo

in warm Wine, so large, that it may reach over the Forehead, and be tied Mj. misse & lege Art. f. Decollum. com Vino cubro Alpas. Ala

R Fol.

R Fol. Alchimil. Euphras. Verben. Veron. ana Miss. flor. Cyan. Rofar. Sambuc. Lilior. albor. ana Mj. Sambuc. 3 ij. Sem. Fæniculi 3 ijs. Rad. Irid. florent. Fabæ, Coffee ana Zij. misce, scind. & contus. gr. modo.

If you find that the Bone under the Fiftula is any thing decayed or Rotten, then endeavour to reach the Bottom of it with Tents made of Gentian Root or Comfrey, or apply Phlegma Vitrioli close upon the Bone with Lint, and it will take away the Blackness, and cleanse it; but if this will not answer your Intentions, you must scrape it, or apply an Actual Cautery; for the Bone and Foundation must be made clean, or all your Labour is in vain. The following Medicines are also in great Request, especially Dr Overkamp's Mixture *, which I have made use of several times with great Benefit.

* Chirarg-1. 2. p. 385.

> B. Spirit. matricalis 3ij. Salis Armoniaci 3 ij. Myrrb. Aloes ana 3iij. Camphor. 3ij. Elixir. Vitæ 3j. Tinct. Castor. Ase fætidæ, Galban. ana Zij. Sal. Tartar. 3/s. misce f. m. L. Art.

> If you think this Medicine is too ftrong, you may qualifie it with a little Aqua Mellis, and put it into the Fistula with Lint; or if it be hollow, you may ferringe it with the same Mixture.

Be Terebinth. 3j. Balfam. Copaibæ 3fs. Myrrh. Aloes ana 3jfs. Sacchar. Saturni Bij. Camphor. Croc. ana Bis, m. f. Balfam.

This Balfam is to be applied warm after the Fiftula has been well cleanfed and wiped. I have also sometimes used the following Ointment of Chalmetius, with good Success.

Chalmatius's Liniment.

B. Spirit. Vini, f. Vini optimi q. f. Mell. Refacei 3j. Pulv. Myrrbæ 3ij. m. f. Liniment.

You need not wonder that I prescribe no Plasters, Ointments, and fuch like greafie, unctious Medicines in this Case, since I find by Experience they do no good at all, but on the contrary make it Ten times worse; but if you must have a Plaster, as a Cover to the other Medicines, make use of what follows. Doilland of gniwolld adr hi the

Be Cera alba thij. Sevi Hircini this. Ol. Amygd. dulc. 3iv. Sperm t. Ceti Bij. Ceruff. tbij. Succin. alb. occul. Cancror. ppt. ana Bis. Cort. Austr. ppt. 3j. Spodii ppt. 3s. Campber. 3j. m. f. Emplastrum.

Dr. Muraltus in his Collegium Anatomicum gives us the Receipt of an Excellent Potion in this Case, which is prepared as followeth.

Dr. Muralsus's B. Rad. Confolid. maj. 31s. Sanicul. Vinc. per Vinc. Fragaria, Alchimil. Salviæ ana Mi. Flor. Tunicar. rubr. Confol. Saracen. Apii bort. ana Mj. misce & lege Art. f. Decoctum. cum Vino rubro & Aqua.

This is an Incomparable Medicine, and he that tries it will find it for The Doje is Three Ounces Morning and Evening. He that defires to read more of the Cure of these Fistula's, may consult Fabricius Hildanus *, who thinks he can never fay enough in the Praise of Euphorbium. * Cent. 6. Petrus de Marchettis, Dr. Munnick, and especially Dolaus, are very copious upon this Subject; and Dr. Blanckard in his Annual Register, Part 2. Obf. 30. Pag. 50. has given us a Remarkable History of a Fifula Luchrymalis, which was communicated to him by A. Kypers, and is worth our Notice, because he gives us the Virtues of the Water which is to be dropt into the Fiftula, and of the Mixture which Exficcates and Incarnates, and both agree very well together, and are much to the Pur-

I have already treated at large of the Teeth and Jaw-bone, and of fleshy Excrescences in the Mouth; but since these Fistula's are very common, and few Chirurgeons truly understand the Method of curing them, and fewer Authors have handled this Subject as they ought to have done; therefore I thought it necessary in the Conclusion of this Book and Chapter to treat of it briefly, but accurately and fully, that a Chirurgeon may know how to manage himself in the Cure of them.

These Fiftula's proceed either from Corroding, Acrid and Soure Humours gathered in hollow Rotten Teeth, which by degrees fink into the Jaw-bone, and wanting Vent, gnaw upon the Parts till it has work'd Holes through, and at last causes a Fistula; or else from some Accident in the ill drawing of Teeth, which has injured or broke the Bone, caused Imposthumes, and at length a Fistula.

The Cure of all Fistula's, let them be distinguish'd by what Name they will, are very hard; but the younger the Fiftula and the Patient is, tis fo much the better; and the older, the worse; especially if the Patient is Emaciated and Infirm, as may be feen in the following Observation. If the Outward Hole is so narrow that you cannot reach the bottom of the Fiftula with a Probe, endeavour to make it bigger by a Root, Tent or Incision, that you may better find which way the Fiftula takes its Course, and at what Part of the Maxilla and Touth the bottom of it is to be found, for that is material to be known. You must also fearch inwardly about the Gums and Jaw, to fee how all things are disposed there, and what Injury they have already fuffered. The Teeth must also be drawn as foon as can be, for on that depends almost half the Cure. Then use the following Injection, which I recommend in all kind of The bottom of this Fiftula was near the furthermost Teed Fiftula's.

Be Decott. Alchimill. & Rad. Aristoloch. long. cum Aqua Veronic. 3vj. Aqu. Benedict. rubr. mei Zij. Sacchar. Saturni Bij. Elfent . Myrich. 3jfs. Effent, Euphorb. 3ij. Mercur. dulc. 3j. Opij puriffim. to be greater. Towards the Ear it was former mayal . I misl & welled and

ave the Princess a great deal of Pain, who was otherwise This must be always used warm, and the following Balfam applied as well in the Infide of the Mouth, as Outwardly on the Fiftula, which is an ladmirable Deterfive, and Confolidates effectually. I bome I from only Decor, who agreeing, That the Tout over the Fifther ought to be drawn

Be Decolt. Fol. Nicotian. virid. & Veron. cum Aqua mellis, Chelidon. Persicar. ana 3jss. coque ad consumptionem humiditatis, adde Essent. Myrrh. 3jfs. Mell. Rofar. Div. Aloes 3 fs. Mercur. dulc. 3j.mifce fiat Sand Balfamus S. A. ni figuono vi errie; Dr. Munnick, and opecially Dolans, are very co-

If the Jaw is Black and Broken, the Pieces must be taken out, and the rest Cauterized, and touched with Phlezma Vitrioli, to take away what is Carious and Rotten. What elfe feems necessary to be done, or is omitted here, will be supplied in the following Observations.

In March 1689. Rofina Gebavern a young Girl of Fourteen Years of Age, came to me from the other fide the Ohlaw, to be cured of a large Fiftula Lachrymalis in the Left-Eye, which a Distiller, who thought himfelf an Excellent Oculift, had been above a Quarter of a Year in pretending to cure it; but made it worse than it was when he first undertook to cure it. After Dr. Burgen had prepared her with inward Medicines, and I had taken care of her about Eight Days, I made an Incision with a Sharp, but not a Keen-pointed Lancet, on the Lower Part of the Cheek, where the large Sinus or Cavity of the Fiftula was, as large as was fufficient to put a Tent into it, in order both to cleanse and heal the Fiftala. Which necessary Part of the Operation I would have all Practitioners observe, because they may afterward cleanse and servinge the Fistula. and prevent the Gland from being corrupted and spoiled by the Superabundance of Matter flowing to it, which will prove half the Cure, as it did in this Patient; for by this means I could use the Powder above upon the Glandula, and in the Lower Part of the Incision put a Tent with the Balfam, and on the Top of all the moistened Bolster, which fucceeded to happily, that in a Month's time every thing began to heal. The bottom of the Fiftula I opened with Tents made of preffed Sponge: and perceiving at the bottom towards the Nofe, that a Part of the Bone about the bigness of a Bean, was Black and Rotten, I applied Line to it dipped in Phlegma Vitrioli, and it began to mend: However, for the greater Certainty, I resolved to touch it with a hot Iron (the Parts near it being sufficiently guarded;) which being done, the Carios separated, grew White, and also the Flesh which was over it: So that in Eight Weeks the Patient was persectly cured.

Observation 2. August the Seventh 1693. a Great Princess with the Prince her Hulband, came to Breslaw out of Austria, who had a Fistula in the Lower Part of the Right Side of her Neck, which gave her Intolerable Pain. The bottom of this Fistula was near the furthermost Teeth, and the Orifice about half a Hand's Breadth towards the Mouth; the Cavity was fo crooked, bending upwards towards the Teeth, that a Probe could reach no farther than about a Thumb's Breadth into the Fiftula. which caused the Matter to continue longer there, and the Putrifaction to be greater. Towards the Ear it was sometime extremely Swelled and Inflamed, and gave the Princess a great deal of Pain, who was otherwise in very good Health, and at that time about Twenty eight Years of Age. Great Difference had been already used to cure it, by the Advice of the most Learned Physicians and Chirurgeons sent for from several Places, who agreeing, That the Tooth over the Fistala ought to be drawn

out; a very expert Tooth-Drawer at Ulm, was the Operator; but it happened so unfortunately, that the Crown, or Head of the Tooth broke off, and the Stump remained behind. Upon this unhappy Accident the Fistula grew every Day worse and worse, so that her Highness resolved to go to Breslaw, where she arrived the Seventeenth of July in the Evening, and brought with her that Famous Chirurgeon and Burgermaster of Prague, Mr. Christian Schutzbredt, and immediately sent for me and Dr. Tralles; but we could do nothing that Evening, but only fearch the Fistula, and apply Dr. Fabricius's Plaster, which was fent her

Highnels from Nurenberg.

July the Twentieth we all met in the Princely Court Oelffe. Dr. Agricola first search'd which way the Fiftula went : Afterwards Mr. Schutzbredt and my felf fearch'd it with a Probe, but could not reach fo far as the Tooth, tho' at that time there was no Inflammation or Swelling, and nothing came out of the Outward Orifice, but Two or Three Drops of Matter at a time. The Pus was also well digested, nor was there any ill Smell from the broken Tooth, and the Gums thereabouts vvere in good Order. Upon vvhich, others as vvell as Dr. Agricola, were of Opinion, That the Fiftula did not reach the broken Tooth, but time taught us better; for tho' I kept it open above three Weeks with a convenient Tent, took away the Spongy Flesh, seringed it often, and blew into it the Powder prescribed in the Fistula Lachrymalis, insomuch that every thing seemed to heal, and that on the Twenty fifth of August the Fistula was quite closed up, and remained so till the Eleventh of

September following.

Yet on the Twelfth, about Ten a Clock in the Morning, the Princels found great Pain in the Tooth again, and an Extension and Swelling towards the Ear; which Symptoms increased towards the Evening, because the Princess vvent that Day to Great Peterwitz, and had taken no Medicines with her to apply to it. In the Night it grew so painful, that she was forced to return back in the Morning. Then I perceived a great Swelling and Inflammation towards the Ear, and in the Infide of the Mouth about the Teeth; to which I immediately applied Internal and External Remedies, and upon the Ear and Cheek a proper Cataplasm. But on the Fourteenth of September it again possessed all the fame Places where the Fistula was, which I opened in the Afternoon, and let out half a Spoonful of well concocted Quitter, and it continued Running very fast till the Twenty first of the same Month; then the Matter decreased, the Wound was so well closed, that the smallest Tent could not enter it, and the Fiftula healed up again the fame Week, to our great Admiration. No Arguments could prevail with this Princess to fuffer the Stump to be drawn, though her Highness was daily told the must never expect a perfect Cure till the Tooth was out. October the Fourteenth all the former Symptoms unexpected broke out again, and gave us opportunity to shew the Princess her Danger and continual Affliction, unless she would consent to have the Stump drawn; but the perfifted in her Obstinacy, and said she would not consent to it whatever the fuffered.

However, we fent again for Mr. Schutzbredt, and prevailed with her Highness to send for Two more Chirurgeons from Vienna, in hopes that

the concurring Opinions of so many in the same thing, might induce her Highness to comply with her own Advantage. This being done, in Twelve Days came Mr. Bernard Norbert of Zeidler, Chief Chirurgeon to the Emperor, and with him Mr. Bouchard, Chirurgeon of Vienna, Mr. Schutzbredt came the Day before; who with Dr. Tralles and Agricola all unanimously agreed, That the Stump of the Tooth ought to be pulled out, the Place Cauterized where the Bone was Rotten, and then we should proceed to the Cure of the Fiftula. This Agreement was the same Evening related and proposed to her Highness, who after discovering some faint Unwillingness, couragiously resolved it should be done, and accordingly was performed by Mr. Adam Plabne a Tooth-Drawer in Breflaw, who, after two violent Onfets, not without giving the Princess great Pain, brought it out. We suffered it to bleed a while, to give the Lady time to recover her felf. After her Highness was a little composed, I fearched the matter very diligently, and twice Cauterized the Jaw-bone with a Hot Iron made for the purpose. Three Days after the Chirurgeons all returned to their respective Homes, and in Three Weeks time I so perfectly cured the Fiftula, that her Highness has never been troubled with the least Sign of it fince. Hence you may see how absolutely necessary it is, that the Teeth should be drawn in these kind of Fistula's which I would have done at first, if I had been left to my own Liberty; but in fuch great Persons one dares not act alone what he thinks he ought to do; which gave these Great Chirurgeons, all my Intimate Friends and Acquaintance, the Trouble of coming from Vienna and Prague to Breslaw. And with this History I conclude the First Book of my Chirurgia Curiosa, which I hope will be Accepted; what elfe is requifite to be known in the Art of Chirurgery, will be discoursed in the Two following Books.

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Running very last till the Twenty field of the tame Menth; then the Matter decreases, and it continued Running very last till the Twenty field of the tame Menth; then the Matter decreases, the Wound was to well closed, that the Smalless Tent

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CHIRURGIA CURIOSA.

BOOK II.

Treating of the Accidents and Diseases incident to the Breast and Belly; and what is to be observed from them.

CHAP. I.

Whether in Curing Wounds, there is a Necessity to bring them to Suppuration, by Emplasters, Oyls, Cataplasms, &c. according to the Ancient Custom? Or, Whether they may not be Cured easier. and Somer, by other Medicines without Suppuration ?

HE Antients were of Opinion, that no Wounds could be Antient Opinion cured without Suppuration; and directed their Medicines ac- nions erronecordingly. This Method I follow'd very strictly in several Campaigns, and thought there was no other Way, as many others do, that follow the Antient Method to this Day; but confidering better of it, and observing the Practice, and reading the Works of Dr. Bontekoe, Overkamp, Blanckard, Muralt, &c. among the Germans, Rabel among the English; and de Landes, Baugrand, De Parc and Blegni among the French, I saw Reason enough to leave off this Method, and adhere to a better, by the Invitation and Example of others; wherein I foon found it true, that Wounds might be constantly and perfectly cured without Suppuration, or the Application of Plaisters, Balfams, Oyls, Ointments, and such like nasty greafie Medicines, which under Pretence of Suppurating, Mundifying and keeping the Wound Open for fome time; the Lips, Edges, and the Flesh were corrupted, by imbibing thole greafie Drugs, the Wound putrifies and flinks, and the Cure is longer delay'd, and made more painful, by keeping it Open; not to mention other ill Accidents, that too often happen while you are waiting for a Suppuration. I would have no body pin their Faith upon my Sleeve, but let them try and consider the Reasons that support this Practice, and you will find, that the Antients in this Cale are too erroneous to be imitated; and that the latter Method is the better. Who knows not, that Nature abhors Wounds or Divisions in any Part of the admirable Fabrick of our tender Bodies ! And therefore proposes and takes the readiest Way of conjoyning and confolidating them; Nature knows, that Wounds cannot endure

gion must af-tist Nature.

The Chirur- dure being exposed to the Air, because it irritates the Nervous Fibres, and lo occasions Inflammations and Putrefactions, and therefore contributes to the clofing them up from that Enemy 5 and a Chirurgion being but Natures Servant, ought to do the like, with all possible Expedition; before any Unctuous and Oily Matter gives a Check to it, I know some think that we ought not to use the Word Nature; and I will comply with them, when they have found another Word, which better expresses the Excretions, Nutritions and Secretions of humane Bodies; but not to infift upon Words; take care in all your Endeavours to affift Nature in all her Operations, and take the speediest Way to Consolidation, after you have removed every thing that may obstruct her Progress. Now, that the Industrious Chirurgion may never be at a Loss for Want of Medicines, to make a speedy and perfect Cure without Suppuration, I will prefent him with my own Vulnerary Water and Powder, that will stand him in great stead upon fuch Occasions. The water is to be used in those that are very deep, and the Powder in such as are flat or shallow.

Two excel-1 lent Medicines.

> Re Vin. Hungar. opt. fbii, Agu. Regin. Hungar. 3vi s. Rojar. Chelidon. ana 3iii fs. Plantagin. Zii fs. Croc. Mettallor. 31, Sarcocol. Succin. ana 3 fs. Tutia ppt. Asilas Lors Bis. Aloes Bii, Sacchar. Cant. albi, 31. Camphor. q. v. Misce s. art. & pone in Solem per aliquot dies, [. pro #[u.

140 mina od Inject this Water into the Wound, and wash the Sore very well with it; then moisten Pledgets in it, and apply them to the Wound; after you have brought and ty'd the divided Parts of the Wound as near together as you can, or as is convenient; for that will much contribute to the Healing, and to perfect the Cure. If the Wounds are very deep, you must not let the Pledgets lie too long in them, for then they will grow dry and hard, but moisten them often, which you may do without taking them out of the Wound, for they ought to lie there Two or Three Days before you put in fresh Pledgets; and continue this Method till the Wound is closed up. This Water is of admirable Vertue, for it relifts Putrefaction, prevents ill Accidents, and takes away the Inflammation and Pain of the Wound. The Powder which I mentioned is the next following.

> Be Pulv. rad. consolid. major. 3iii. bas aloid Tragacanth. Lut. Fabril. aa. 3ii. Sarcocol. 314 Sions and 3i migaal 3vi. Myrrh. Aloes ana 3iii. Bol. Arm. ppt. Zi. rad. Ariftoloch.long. 3 fs. M. not of f. ad subtilifim. pulv.

This Powder must be strewed into the Wound, after it has been washed with warm Wine, and it's Lips, joyned as close together as you can get them; then apply over it Bolfters moisten'd in Whitewine or Hungary Water, and let them lie Two Days without removing or changing them, only now and then moisten them with warm Wine or Hungary Water two or three times a Day. Then dreis it

a new, and continue fo doing till the Wound is perfectly cured. Other Medi-Dr. Overkamp's Spiritus Matricalis, Blankard's Tinctura Succini, Ra- fame kind. bel's Elixir, Du Parc's Blew Eye-water, de Landes, Baugrand's L'Eau de la Reine d'Hongr. mix'd with some Tragaçanth, and Blegni's Eye-water, have all very near the same Effects in Wounds; only if you try them, I prefume my own Prescription will exceed them all. If you consult Blegni's Observations, you will find Two admirable Cures that he perform'd in wounds, with his Eye-water; the Receipt whereof you will find in the Twenty fourth Chapter of my first Book, Chirurgia Curiofa.

A famous Physitian at Lisbon, Rodericus a Fonseca, who practiced a long time at Padua in Italy, used to firew the following Powder into Wounds with great Success; after having first cleaned them with warm Wine, and then cover'd them with Pledgets moistened in the

fame Liquor.

Be Myrrhe, Bol. Armen. ppt. a4. 3 [s. Sarcocol. 3vi. Mastich. Oliban. aa. 3iii. Aloes, 3ii fs. Sanguin. Dracon. 3ii. Misce ad subtilissim. Pulverem.

Next I will accommodate you with Dr. Bonteko's admirable Vulne; rary Water, which was presented me by the Ingenious Mr. Horchat Berline, and was in great Esteem.

> B. Extract. Solan. 3iii. flor. virid. Aris, 3i fs. Lixiv. Calcis viv. 3xii. Croc. Metallor. 3ii. Sacchar. Saturni, 31 fs. Mercur. Dulc. Dil. Myrrha 31. M. f. Vuln. S. Artem, ferv. pro ufu.

Now I will give you Dr. Muraltus's Water for the same Purpose, which was also communicated to me by Mr. Horch, who procur'd it out of Bern in Switzerland, by the Favour of Dr. Baverkonig 3 after which I will put down a rare and curious Observation on this Subject.

B. Flor. Cinza & S. Amalg. Mercur. 311 s. Phlegm. Alumin. 3ii. Lixiv, è Calcis viv. Zvi. Oul o'lai obiv Agu. Piantag. Veronic. aa. Ziii. Glutin. Fabril. da nobnu bos 3 fs. Tutie ppt. 3iii. Camph. and walled out mon boning muse ig 313 ft. Misce fist Vuln. f. a. il ni vino our doidw abauo V slodi through the Thorax or Abdomen

Here I cou'd not but observe to you, that the Glut. Fabril. or Glue that the Joyners ule, is an excellent thing in the Cure of Wounds; which the Joyners know very well, and therefore when they chance to cut themselves, instead of a Plaister, they apply a segmentum or Shaving ipread with Glue: Tye it on, and let it lie till it has healed the Wound, and then it will drop off of it felf. Meniafilians, Persent

What I have hitherto said on this Head, was only to convince you, that there are Medicines which will cure Wounds without Suppuration; Modern Way and that he that has a Mind to try mine or the Water of ulme; for of Cure the the rest I have had no Experience of, will soon find that my self and Monlieur Blegni have deliver'd nothing but plain Truth, especially if

you are fent for time enough, while the Wound is fresh; for then if

Observation.

you observe these Directions, you will admire at the good Effects of such Medicines, which cute sooner and safer than the nasty greasie ones of the Antients; as will fuller appear in the following Example.

In November, 1691. One of our Women, that attended the Sick in our Hospital of Ali Saints, had desperately wounded herself in the Pudenda, by falling down Stairs with a Knife in her Hand, which pierced through the left Lip of the Pudenda, and a great way into the Vagina, where it went out again: It bled very much, and the complained of an intolerable Pain. I first apply'd my Restringing Powder to it to stop the Bleeding, and having washed it well with warm Wine, I applied several Pledgets to the Wound, moistened in my Vulnerary Water, and over that, and also in the Vagina, as much as the Place wou'd admit of, and ordered to keep her felf very still and quiet on her Bed, and every Three Hours to moisten the Pledgets with the Vulnerary Water warmed; whereupon the Bleeding ceafed, and the Pain went off; therefore I let every thing lie as it was till the third Day; and then taking away the Pledgets and Bandages, I found that the Wound was in a good way of Healing, without any Swelling or Inflammation. Then I made new Pledgets of Linnen, and dress'd the Wound again as before, and fo continued till the third Week, and then every thing was very well and perfectly cured, both outwardly and inwardly, without Suppuration.

CHAP. II.

Wounds of the Thorax and the Epigastrium or Lower Belly, and what is to be observed both in the Wounded Parts and the Cure.

Wounds in the Breaft.

Ere I will also discourse of Wounds in these Parts in general, as I did in the first Book of Wounds in the Head, and consider them in their differences, diagnosticks and Cares. All which I will divide into Two Parts; viz. that which is above, and what is below and under the Diaphragma; or the Parts containing, and the Parts contained, from the Collar Bone to the Os Pubis or Share-bone. As for those Wounds which are only in the Outward Parts, without piercing through the Thorax or Abdomen; I don't think it worth the while to spend Time upon them, having already largely handled them in my Chirurgia, part. 2. c. 2. p. 394. usque ad pag. 424. to which I refer you; and will only treat here of Wounds and Hurts in the Inward Parts.

When you have observed the Wound in the Outward Part, Probe and search the Inward Part, to see whether the Lungs, the Throat, Aspera Arteria, Mediastinum, Pericardium, the Heart, Arteria magna, Vena Cava, Diaphragma, or the Dustus Thoracicus, or any of those Parts are damnissed or wounded; which you may perceive by the several Sym-

ptoms that artend them.

If the Lungs are wounded, whether in the Right or Left Lobe, the Chirurgeon may easily discern it, not only by the External Wound which goes towards the Lungs, but by the Diagnosticks and symptoms following,

VIZ.

How to know

are wounded.

viz. The Patient draws his Breath with great difficulty , Coughs almost continually; the Blood which comes out of the Mouth of the Wound is very thin and frothy; when the Lobe dilates it felf to let in Breath, the Patient complains of great Stitches and Pains in the fame Side; and the Breath goes so forcibly out of the Wound, that it will extinguish a Candle. Searching with a Probe cannot always be done, and if it cou'd, is very fallacious; because the Patient is not in the same Posture he was when he received the Wound, and the Passage of Wounds between the Ribs, is commonly too narrow for it; and therefore you may better judge by the Symptoms already mentioned, which are certain and indubitable Indigitations, than by rowing and poking into the Wounds with Instruments; for if the Wounds are not too large, and the Substance of the Lungs are only hurt, they may be cured if diligently look'd after; but if much Blood is fallen from the Diaphragma, and comes there to Putrefaction, the Patient is in imminent Danger, for such Accidents are generally attended with Death; because the extravasated Blood settling there, cannot be evacuated. In such a Case, you must help the Patient by making the Wound larger, and if it should appear necessary, to make an Incision somewhat lower, to give the Sanies a Passage out, which you must assist, by putting the Patient into such a Posture as will contribute towards it; which if done in time, the Chirurgion may be yet in hopes of a good Event.

The Cure of Wounds in the Lungs, besides Outward Applications, Cure of require good Internal Medicines. The Outward Wound may be Wounds in eafily kept open by a convenient Tent, as long as is necessary, which the Lungs. must be fastened to a Thread, that if it should fall into the Cavity of the Breaft, it may be pulled out again: Over which ought to be applied a good stiptick Plaister for a Defensitive, with proper thick Bolfters moistened in warm White-wine; but special regard must be had to affift with Internal Medicines, for on them depend the chiefest Part of the Cure. The following Potion and Powder I have

always found to be very serviceable to me in such Cases.

Be fal, Pulmonaria, Alchimil. Veron. 3d oni Virg. Aur. aa. Mi. rad. Malve, Confol. maj. Ariftol. long. aa. 3vi. coque in and at boom fo g. Agu. Malva ad 3xxxvi. adde Ocul. deports : billion beloof and Caner. Lap. Offrocot. ppt. aa. 3fs. M. f. bavil avail mein ant Potio dofis Billi. vino bas counted to asimeW e comogs.

what is wounded puts himfelf into another Poffore, to that the Heart Which the Potient must constantly drink three or four times a day; and the following Powder is to be used betwixt whiles, three times a day, enough side and a blonw it shiwrente en nool of it

and at last the Patient expires , unless the newtro of pentitue of the R Rad. Irid. florent. pulv. pectoral. Z. aa. 3/s. Spermat. Cati Bill. flor. sulph. Bil. Bol. Armen. ppt. Bilifs. Sacchar, Cant. alb. Bili. Ocul. Canc. ppt. Bili Ol. Antie distillat. q. f. vel gutt. XV. Misce fiat ad subtilissim. pulv. dosis Villene called Restrict, who was that will it a state of the same that drong bus misoff yboold a bins G gissenied and sid our Now.

Woundsin the Octopha-

Now we will consider Wounds in the Trachea Arteria and the Oelophaeus, which are very dangerous, and give the Chirurgion much Trouble, because he cannot come at them, and by reason that for the most part they must be left to the Patients good Constitution to contribute to the Cure. Out of the Wound and the Mouth of the Patient, is cast out a viscous and frothy Blood; the Patient coughs perpetually, because the Blood continually runs into the Aspera Arteria and Oesophagus; which mixing with the Air, by Respiration renders it frothy, which commonly produces Convultions and Suffocation, and makes the Wounds more dangerous, because Aftringents cannot be applied to ftop the Bleeding: Nor can those Two Canals be wounded without damnifying the Lungs and other Veffels. The Cure is the same with that I proposed for the Cure of Wounds in the Lungs; only the following excellent Powder may be

Re Rad. Confolid. maj. 31. Sarcocol. Tragacanth. 11 w bobins aa. Biifs. Ocul. Caner. Bil. Sacchar, Cant. albi, vo od son 3ifs. Mumie zi. M. f. ad subtil. pulv. dof. 3i. don't also Ter in die. you must stuft, by putting the Patient into spein a Possure as will

in imminent Danger, for toch Accidents pre-generally ac-

Wounds in

The Wounds in the Pericardium and Mediastinum are also very dangerous; for the first being wounded, the Liquor contained in it, um and Medi- which is deligned to cool the Heart and excite it's Motion, runs out, and causes dangerous Symptoms, and a great Putteraction in the Diaphragma. The latter is a necessary instrument of Respiration, and if that is wounded being membranous, there follows very great Pain and a continual Cough, which is generally accompanied with Convultions and Death. The Cure is also very difficult, because, as I faid before, nothing can be applied to the Part; the Liquer that is loft out of the Pericardium cannot be restored, nor the Pericardium healed; and though fuch Patients live for some time, as long as the Convulsion and flowing Liquor Pericardie will permit, yer they are troubled with shortness of Breath till Death.

Wounds in the Heart.

Wounds in the Heart are generally accompanied with sudden Death, because the Blood running immediately out of the Ventricles into the Cavity of the Thorax, the Circulation, Motion and Life cease altogether; though I have known some that have been wounded in that Part, have lived some Hours, yea, Days after it; which was look'd upon as a Wonder of Nature, and only happens where the Patient that is wounded puts himself into another Posture, so that the Heart and its Mufcles, (for the Heart is composed of many Mufcuti) in a manner stops up the Wound, that the Blood cannot pals through it, fo foon as otherwise it would; but this happens very seldonia and at last the Patient expires; unless the Mucro or Punctum of the Heart was only flightly wounded, for then it may be cured.

The Learned Puffenderff, lib. 4. pag. 234. in his History of the Actions of Carolus Gustavus King of Sweden, has a remarkable Observation, of a certain Polander, who on the 2d. of April, 16578 was found lying on his Back upon the Ground by General Dablierg, near a Village called Rabolwick, who was that with Two Bullets through the Heart, his Eyes being closed, and a bloody Foam and Froth

iffuing

issuing out of his Mouth. The Troops marching by, thought it a piece of Friendship, to put such a miserable Creature out of his Pain; therefore a Trooper leaped from his Horfe, and putting his Pittol to the wounded Man's Forehead, that him with a Bullet quite through the Head, out of which came a great quantity of the Brain; upon which Wound the Polander immediatly laid his right Hand, and ftirred in the Blood and Brain with his Finger: Whereupon another that him through the Head with Two Bullets, which drove the upper part of the Cranium to pieces, and shiver'd it into several Splinters; and yet the Polander continued to cover the Wound with both his Hands; besides which another Trooper stabb'd him Three or Four times directly through the Heart with a Sword, and the Polander upon every pulh twitched and drawed up his Legs, and put his Hand to his Breaft. After this feveral other pushes was made through his Body, from his Belly to the Throat; yea, a great many came to him and that him through the Head and Heart with feveral Bullets, upon which followed a great quantity of Blood; and yet the poor Man still pulled up his Legs, moved his Arms and snored as if he had been falt afleep, yea, and fometimes look'd as if he had had a Mind to ipeak, which almost startled those that were near him, and made them wonder, how it was possible he should have any fense of Feeling, after the Heart was so terribly wounded, and the Skull and Brain shattered into pieces; but after they had flay'd and observed him half an hour, they yet left him alive.

Wounds in the Arteria magna and Vena Cava are also accompanied with sudden Death, because the Blood immediately runs out into the the Arteria Cavity of the Thorax, and nothing can be done to stop the Bleeding. In June 1696, a remarkable Instance happened in this place. The weyb-Bishops Butler stabb'd one of his Fellow Servants into the Breaft, fo deep through the Cheft into the left Lobe of the Lungs and Vena Caua, that more than Three Quarts and an half of Blood run out of the Vena Cava into the Cavity of the Breast on the same fide, between the Medialinum, yea and remained there, infomuch that on the feventh day when the Patient dyed, mone of it was gone through the Disphregons into the Lower Belly, which is certainly matter of great Admiration. Mr. Neyfiez a good Chirurgion in this Town was first called to the Patient, and treated him very discreently in every Particular. On the third Day Dr. Trallet and my felf was joined with him, the Patient had his Speech and Senfes till the Day he died, and we having opened the Body, found it as above related. This put me in mind of a particular Springe, that Mr. Carons Chirurgion at Beauvois thought he had found out; which after incifion was made above a Thumbs breadth below the Dix phragma, would draw out the Blood. This was also discoursed of at the lame time, but feeing no great likelihood that it cou'd facceed, and knowing by Experience that this conceited Method would little avail the Patient, but on the contrary, would forture him and haften his Death, it was omitted. The excellent Dr. Overkamp, 4, 3. c. 13. p. 723. takes notice of these Syringes; but says nothing in Commendation of them. Some Chirurgions, in Wounds of the Breaft inject a particular Liquor, if the Opening is large enough and the Place convenient; also that the Patient can lie on the same Side,

Wounds in magna and Vena Cava.

Wounds in

with his Feet very high, then it may sometimes be beneficial; but if this injected Liquor stays in the Chest with the Blood, then it will do more harm than good, and cause great Pain and miserable Symptoms in the Diaphragma; but I leave every Man to his own Reason and Understanding in this Particular, which will soon convince him, whether it be a proper Method or not: If they are perswaded it will benefit the Patient, then let them use the following injection warm, three or sour times a day, and diligently observe what comes out of the Wound, for if the Water you inject should not come out again, you ought to use it no more.

Be Rad. Consolid. maj. long. aa. 3i. fol.

Alchymil. Veron. Sanicul. Salvia aa.

Mj. coque in s. q. Vini & Aqua Plantaginis,

Colatura Lttii. adde Mell. Rosar. 3i. Essent.

Myrrha 3ii. M. F. J. sart.

But if you perceive that the Blood and Matter will grow to Putrefaction, then I recommend to you the following mixture of Dr. Overkamp for an Injection, which I have experienced to be very good in this Case.

Be Bacc. Lauri, Juniper. aa. 31. Roris marini
35. Salv. 31 Myrrh. 35. coque in s. q.
Vin. Gall. Colatura 3xxv. adde Camphor.
3111. Elixir Vitæ 31. M. f. Injectio.

Wounds in the Diaphragma.

the Arreits

stop the Bleed-

E 11/77

Wounds in the Diaphragma, ought carefully to be observed in what part of it they happen, for round the Body towards the Ribs it is Flesby, that it might the better promote Respiration, and therefore Wounds are not very dangerous in that part; if no other parts near it are injured, for they will eafily be cured if carefully attended. The middle part abounds with Tendons, Nerves and Membranes, and is perforated in three several places, to make way for the Oesophagus, Vena Cava ascendens and Arteria Aorta; so that from hence we may readily conceive, the great use and employment of the Diaphragma, and what Pains and dangerous Symptoms it may produce when it is wounded; for the Intestines will be drawn upward into the Cheft, hinder the necessary Motions of the Heart, and inevitably disturb Regiration; so that the Patient may in a manner be suffocated and dye without Remedy; but it generally happens, that fuch Patients dye in Convulsions, or fall into a Delirium, occasioned by excessive Pains and Torments in the nervous parts of it. The Cure must begin, by administring proper Internal Medicines and Vulnerary Potions, and outwardly dreffing the Wounds with dry Tents, and a good Oppodeldoch Plaster; applying over that again, a thick spread Cataplasme for Eight days together, which will do you great service in preventing Inflammations and other ill accidents. It is prepared as itolloweth. and and a regarder about to sorton sollen . Commendation of them. Some Chirurgues in Wounds of the

R. Pulv. fol. Thee, Alchimill. aa. 3ifs.

31, Cammomill. 31 B. Rad. Althea. Hord. Mund, aa. 31. Farin, Fabar. Terr. Sigillat. Bol. Alb. an. 3vi. M. f. Catapl. ad ulum dictum; Cum latte Vaccino vel decotto radicis Althea.

And thus much I think fufficient, concerning Wounds in the Breaft.

Now I proceed to treat of Wounds in the Epigastrium or the Wounds in lower Belly, by which I mean, all the containing and contained the Epigaffri-Parts, that are under or below the Diaphragma, the Thighs and Legs um. excepted. These Wounds differ much from one another, according as the Parts where they happen are distinguished into more or less dangerous : As the Liver, Gall, Bladder, Stomach, Spleen, Guts, Kidneys, Bladder, Kall, Ureters, Womb and Privities , of each of which we shall discourse particularly, as largely as is requisite for the enfuing Book; the without mentioning any thing relating to Wounds that only hurt the Outward Parts; but only of fuch as entring into the Cavities of the Belly, wound some of those Principal Parts.

Wounds in the Liver, if they penetrate into the Substance of it, Woundsof are generally mortal, because you cannot reach them with Medicines the Liver. or Stipticks; but if they happen in an extreme Part of the Liver, and have hurt none of the confiderable Branches of the Vena Cava or Porta, they may be cured, as might be confirmed in several Examples: Which you may perceive, if there runs but little Blood out of the Wound, and no dangerous Symptoms attend it. The Diagnosticks of great Wounds in the Liver, are a violent Flux of Blood, the Patient vomiting both Blood and Gall together, and voiding great Quantities of the same Matter by Stool and Urine; by which you must necessarily discern how difficult the Cure must be. But if there be any Hope, do what possibly you can, to stop the violent Bleeding, by the most restringent Medicines you can think of, and afterward endeavour to expel the coagulated and stagnated Blood out of the Belly, to hinder it from putrifying there. Which may be done with the following Decoction.

Be Rad. Cichor. Pimpinel. Consolid. aa. 31. Rhubarb. 3vi. fol. Epat. Veron. Abrotan. aa. Mj. Sanicul. Thee ag. Mj. S. Flor. Stachad. Epatick aa. 35s. Ocul. Cancr. Spermat. Ceti aa. 3v. Mumia, Sangu. Hirsini aa. 3ii. Essent. Myrrhe, Aloes aa. 3iss. f. Decott. cum f. q. Aqu. Fontis.

Of this Decoction give the Patient a quarter of a Pint to drink warm, Morning and Evening. The Cure in the External Part confifts in keeping the Wound open for some time, with convenient Tents moistened in Mel Rosarum, and a good Stiptick or Opodeldoch Plaister

Vesica Fellis, or the Gall Bladder, though it's seldom wounded, yet Wounds of fometimes it is, though never except the Liver is wounded also; the Gall-bladbut whenfoever it happens, is mortal and incurable, especially if it's der.

wounded at the bottom; for if you could reach it, its impossible to unite the Skin again. Anatomists differ among themselves about the Use of the Gall; yet all agree that it hinders the Blood from Coagulating, and keeps it in its due Consistence, which conduces much to a healthful Constitution. Others, as Riolanus, Bartholinus and Dr. Glisson say, the Gall warms the Liver and hinders Obstructions; preserves the Acidity in the Ventricles which help Digestion, from putrifying, and warms and comforts the Stomach. Aristotle on the contrary, says, that the Gall was nothing but a rejected Excrement, and of no Use in Mankind; but he was besides the Mark, as well as Galen, who in a tedious Discourse, says, the Gall was very useful to every particular Part of the Body, yea, that no one Part of the Body could live and subsist without it; but gives no Reason to consirm his Opinion.

Wounds of the Stomach. Wounds of the Ventricles or Stomach are dangerous, and generally mortal, especially if they happen in the Orifice, or pierce through the lower part or bottom of the Stomach; for the Orificium Ventriculi having a great Affinity with the Brain and Diaphragma, by reason of the Nerves which encompass it; Wounds in that part are incurable: Besides, the Meat and Drink, and the nutritive fuices which are in the Stomach, will pass away into the Cavities of the Belly, and there cause dangerous and deadly Symptoms. These Wounds may be known, if they happen in the Parts where the Stomach resides, and by the Symptoms which attend it; as the Hickup, excessive Vomiting, Cold Sweats, Faintings, and as often as the Patient eats or drinks it comes up again; which will casily inform you, that these Wounds are difficult, if not impossible to be cared.

But if you have reason to apprehend there is a Possibility of doing good, then enlarge the Outward Wound; pull the Stomach towards you with a pair of Pincers or fmall Hooks, that you may firew upon the Wound my Aftringent Powder twice a day, (which Powder you will find described in the first Chapter of the first Book.) Or if it is possible, stitch the Wound in the Ventricle together with a Needle and Silk; which I have done feveral times in the Camp with good Success, as many can witness. Some I know will admire at this Method, and let them enjoy their humour, it's sufficient to me that it has done very well. When you have fewed it up, let the end of the Silk hang out of the Wound, that without the help of Instruments, you may pull the Stomach towards you, as often as you have occasion to put the Powder into the Wound. You must also order the Patient's Food to be light and of easie Digestion, and prescribe him good Electuaries and Powders to strengthen his Stomach, and give him a Wine-glass of the following Potion warm.

A Stomachical Potion.

B. Fol. beton. veron. Alchymil. aa. Miss. rad. consol. maj.
aristot. long. herb. auricul. mur. aa. 3s. summit. Absinth. Mj.
Cort. aurant. 3s. coqu. omnia simul in aq. Borag. & Hordeis. q.
colatura Lttiii. adde oculi cancroc. ppt. 3vi. vin. cydonior.
granatorum aa, 3iiis. Mell. rosarum syr. Myrtin. aa. 3i.
ess. Myrrh. 3iii. M. f. s. a. D.

When

When you find the Patient grows a little better, and the Wound in the Stomach is closed, cut off the Silk Thread, meddle no more with the Stomach, and heal the Outward Wound afterwards accor-

ding to Art.

Wounds in the spleen, if they happen in the Substance of it, are dangerous and deadly; but if the Wound is not very deep, you need not despair of the Cure. The Signs of these Wounds are, that at first Blood intermixed with Chyle runs out of the Wound, and afterwards is followed by a thick black Humour, which in a manner looks like Lye made of Red Wine: The Spleen swells, the Ilia or Flanks tumifie, and the Patient complains of a great Drought and a continual Thirft.

About Three Years fince, I had a Lace-maker in Cure; who lifting himself for a Soldier, and after endeavouring to escape, let himself down Two pair of Stairs high, but by chance came down almost headlong, and falling upon his left Side, it happened that a Knife he had in his Pocket, run through his Side into the spleen, making so large a Wound, that when the Knile was pull'd out, there came forth not only a good piece of the Spleen, but also of the Kall out of the Wound, which I put in again into its proper place. The outward Applications fignified very little, because it was impossible to reach the wounded Spleen. On the fwelled Flank I applied a good Cataplasm boiled up with Milk: In the Wound I put a Tent, to keep it open for some time, and healed it up with Emplastr. Oppodeldock. Internally I gave him a Mundifying and Healing Decoction, by which Method he was perfectly cured in Nine Weeks time.

Wounds in the Kidneys are also dangerous and deadly: Dangerous Wounds in if they enter into the Flesby parts of them called Parenchyma; but the Kidneys Mortal, if they are wounded in the Middle of their Substance, for thereby they are uncapable of performing their Offices, which are fo necessary in Extracting and Separating the Saline and Watry particles of the Blood, and lending them through the Ureters into the Bladder. The Signs of those Wounds are the running out of a simple and pure Blood from the Wound; for then the Parenchyma is only wounded; but if there also comes forth a watry Blood and Urine. it's an indubitable fign that the Wounds pierce through the Inward Concavities thereof: In which case you must begin with the fol-

lowing Injection.

Re Decott. rad. Aristoloch. long. O. Symphil. cum Agu. Mell. q. f. Colature recent. 3xxv. adde Mell. Rofar. 311. coque lento igne ad consistent. Balsami. postea admisce. Bals. Sulphur. Terebinth. Balfam. Peruvian. aa. 311. S. Unguent. Sanct. Joh. Andrew de Cruce 311. Misce ad form. Balsam.

This must be injected warm into the Wound Three times a day, with a Syringe that has a pretty large and open Pipe. Andreas de Cruce's Unguentum Sanctum is what follows.

> Be Terebinth, lot. 3xii. Ol. Hypericon. 311. Gum. Elemi 3xviii. Mastich. 311. M. f. ad Balam. form.

Wounds in

that

I cannot imagine why Dr. Munick leaves out the Mastick, and instead of it adds Refin. Pini 3xii & Ol. Laurini 3ii. which is not to be found in that Learned Old Gentleman de Cruce, and therefore

does not merit the Commendation he gives it.

Wounds of the Guts.

Great Difference and Diffinction is to be made in Wounds of the Guts 3 for if the small Guts are torn and cut cross through, there is no hopes of a Cure; but if the Wound is only in the fides and length-wife, and you can pull the Gut towards you, to few the Wound up again, and strew it over with my Restringent Powder; *Lib.1. cap.5. * Or if any of the greater Guts are hurt, as the Intestinum Rectum, there is yet hopes of recovering the Patient. Signs of the small Guts being wounded, are, that there first comes out of the Wound a mixture of Chyle and Gall; afterward Victuals and Drink; the Patient complains of grievous Pain about his Navel, and what he ears or drinks immediatly comes up again. If the Great Guts are wounded, the Excrements come presently forth at the Wound, and stink abominably, and the nearer the Wound is to the Intestinum Rettum, the more Crass is the Excrement: Which are such Demonstrative Diagnofticks, that there is no need to enquire after others. I have already hinted fomething for the Cure of Wounds in the Guts, and now can only fay further, that the only way of Cure is fewing up the Guts that are wounded, and apply convenient Remedies to heal them. If the Outward opening should not be large enough, it must be made wider by Incision, that you may better come at the wounded Gut to stitch it and put it into its place again ; but if the Gut lies in the hollow part of the Body, then you must draw it towards you, that you may few it together and put some of my Pulv. ad Suturas upon it. Dr. Munick would have the fewed Gut first washed with warm Wine, in which Rose, Cammomill. Scordium & Absynthium had been boyled; then Balsam of Pers or of Sulphur with Turpentine applyed to it, and at last the following Powder.

> R Aloes Mastich. Oliban. Mumia Sangu. Draconis aa. 31 M. f. ad jubt. pulv. the wat ods daw

I think if some Tragacanth and Rad. Confolid. were added to it, 'twould be much more effectual. This being done Three or Four times, the outward Wound may be cured as ufually. These Patients for a Year together ought to wear about their Bodies, a good Bolster or a Girdle, that no Tumor or Hernia's may proceed from fuch a Wound or Accident.

Wounds of the Bladder.

Wounds in the Bladder, either in the middle or upper part of it are generally Mortal, because the Skin cannot be sewed together, nor can you come at it; but if the Neck of the Bladder or lower in the Fleshy part should be wounded, the Cure may be perfected with diligence and proper Medicines. Signs of the Bladder being wounded, are, if the outward Hurt is downwards towards the Privities about the Region of the Bladder? If Urine coloured with Blood runs out at the Wound, and the ordinary place of Passage is obstructed, and cannot be made useful but by a Catheter. The Cure much depends upon the Patient's being kept to a proper Dyet, and

that he drinks but moderately and in small quantities. The out! ward Wound must be Dreffed with a good Vulnerary Balfamy and an Oppodeldoch Plaister, and into the Yard must be injucted warm Four times a Day, with a Syringe having a long Pipe the follow But when I had gained that point, I applied go d Medicinoupil gui

18 Decott. rad. Althee Alchimill & veron. Sin. Lagumalves Plor. borrag. 44. Suil Sach. Saturno Bil Land. opiet. Di Melli 25 W I bas Chelidon Bill Mifee f. J. detur ad witr. of one shoot, a woT and I add To promote the Cure by internal Medicines, therefore give every Morning and Evening to the Patient Billiof

the following Potion, which I affure you will do you great

healing

Re Fol, Agrimon. M. iss. herb. fragaria, auricul. mur. veron. fanicul. aa. Mi rad. rub. tinet. ferpentar. aa. 3/s. cort. aurant. fiii cort. Lign. fraxin. Biis ocul. canc. spermat. ceti aa. 3ii Misce f. Decott, cum Agu. fabar. O vini aa. partibus f. art. Cancers, chiefly in the Breaks; their Caule and Cu

If the Kall is wounded, and any thing should be pulled out with a Sword, or any other Instrument that gave the Wound, it mult be speedily put into its place again, and if any thing be Putrefied which it's very subject to; it must be either Cut away or if time and place will permit tye is off, and bring the found part into its place again. The outward Wound must be treated as those before mentioned; only take care that you use no oily or Unetwow Medicines to it. concerning the Caule of Cancers

Wounds in

Wounds in the Privities and Genital parts are also dangerous and deadly, dangerous if the Tofficles and Yard and hurt about mortal, the Priviles if the Wounds are very large, or part of the Tefficles and Yard are and Gentials taken off. The Signs of fuch Wounds being vilible, in would be a folly to fpend words or time about them, The Cure much begin with Aftringents to ftop the bleeding as foon as possible, and continued by using a good Cicatrizing Plainter, and a Cataplasm to prevent an laflammation, which is one of the chiefest points in the whole Cure By all means forbear the sufe of Unctuous Applications of for they will caule an Inflammation and Putrefaction; but employ all Drying Mediemes, and in the first place wie Mell Veronice warm & Eight days after apply the following Water with Line, and over that my Lag Firginis, with the Linnen Rags moillened in it and slaid on warm. Cancer; but if the Burning was very thate, it caused an explicited in explicit file 7. c. 27. ted Cancer. Paramph must guod doololists abay 15022 different Diet,

"Prax. part. 1. 1. 5: 0. 20.

In July 1689, I had in Gure a Taylor named Hans Muller of Hal. berfladt, who falling into a violent Feaver which took away his Senles and made him Delirious, he almost cur off his own Mard with a Knife, and tyed his Terticles to very hard with a Ribbon, that it had much ado to untye it, and prevent a Mertification of the party

and spleen, productive, Saturn. Myrkhall a Cancer.

Caratherins lays, ilar, sum, Aloes, Aloes, Alum, afti, eval minhiber of memore humour in the following in one

Hiftory.

What Pain and Torture the Patient mult have endured, may easily be conjectured. The people of the House being not suddenly aware of what he had done, made him lofe abundance of Blood before I came to him; fo that I had trouble enough to ftop the Bleeding ! But when I had gained that point, I applied good Medicines to prevent an Inflammation, and into the Canal of the Yard I put a Silver Pipe for his Urine to pals through , Dr. wolff a Phylician in that Town, took care to supply him with Inward Medicines, and I was above Twelve weeks before I could cure him, and then the Patient was well reflored, and has often bewailed his irrecoverable Lofs. the following Potton, worch I affure you will do you great

Of Cancers, chiefly in the Breast; their Cause and Cure. If the Kell is wounded, and any thing front be pulled one with

Xperience confirms, that Cancers may grow in all parts of the Body, the the foft, spongy and glandulous parts, as chiefly the Lips and Breafts are most afflicted with them. Of the former we have fufficiently discoursed in the first Book, and now will treat of the Latter; after I have given you the erroneous Opinions of the Ancients, and the more judicious Sentiments of Modern Phylitians,

concerning the Caufe of Cancers.

† 1. 2. C. 12.

Prax. part. 1. 1. 5. C. 20.

Johannes Andreas de cruce * fays the Original of Cancers, were from preternatural Melancholy burning Humors, and were often occafioned by eating great flore of Lentils, snails and Beef boiled in copper Veffels. Johan. Vigo is much of the fame Opinion, and to as little purpose. Galen † calls a Cancer Melancholia naturalis & Fex fan-

guinis, a natural Melancholy and Dregs of the Blood, and also a fuperfluous Atra Bilis, which fetling in any part of the Body caused a Cancer. Avicenna is very confident that it is nothing effe but an Adust Melancholy Humbur. Sennertus is * alfo of Opinion that a Melancholy Humor was the first cause of a Cancer, and also blames Atra Bilis, which by its thickness, stops up the Passage of the Veffels, that it cannot pals through the fine Channels, and there, tho the Humor was but a little Burning caused a lurking and hidden Cancer; but if the Burning was very sharp, it caused an exulcera-† lib. 7. c. 27. ted Cancer. Paraus † to that of Sennertus adds a difordered Diet.

that occasioned a Crass and Viscous Blood, which injuring the Liver and spleen, produced an ill disposition for generating a Cancer. Cardilucius says, Tom. 3. c. 25. p. 93. that a Cancer was a true Venemous humour, generated by corrupted Blood, which fetling in one part or other of the Body, became Corroffve, and Ipread larger, as the place was disposed to receive it. Fabricius ab Aquapendente, asfigns feveral Causes, viz. an immoderate heat of the Liver and Spleen, which first caused Mera Bills, and then a Cancer: A weak and feeble Spleen, which was incapable of leparating and elaborating the Mes lancholy humour. Obstruction of the Hemorrhoides and the natural Purgations in Worfien, often procured a Cancer. Falis Work, Chie rurgia p. 411. lays, a Canter in Womens came often from the ill healing

healing of their sore Breasts, that for want of being truly cleansed, first grew into Schirrous, and afterward to a Cancerous Tumor; as the humour which was lest behind, grew more corrupt and stronger. Agricola says it proceeded from an Acrid Salt, derived from a Menstruous and Hemorrhoick Blood, which degenerating and growing sharp and corroding, setled in certain places where it became a Cancer.

Let us now consider our Modern Writers, how much they have improved the Study of Physick and Chirargery, in the lights they give us to find out the true Caufes of Difeates, and their rational methods of Cure. Mr. de Billy ascribes the cause of a Cancer in Womens Breafts, Part. 3. pag. 117. to an Induration of the Glandules, wherein the Juices and Humours stagnating, grew corrupt, and by degrees produced a Cancer, and chiefly if the Chirurgion used Repelling Medicines instead of Mollifying and Resolving, and such as too much refrigerate the parts, and cause the Matter in the Glandules to be more compact, and grow into a Schirris, which causes no great pain, because the Nerves are also obstructed. Overkamp, Chirurgia 1. 1. c. 9. p. 193. fays, a Cancer is an Induration of the Glandules, caused by an Acid and Vitriolick Juice, which abounding in the Blood and Juices and being ulcerated, become more Acrid, Saline, Acid, and intermixe with a Sal Alkali. L. Juneken Chirurgia Manyalis. Sec. 2. c. 6. fays a Cancer is an eroding Humor in the Glandules, obstrued by an ill constituted and stagnated Lymphus. Bontekoe after his usual manner of refuting other Mens Opinions, Capite 3. Art. 4. p. 200. Jays a Cancer proceeds from the depraved Juices in the Glandules. Monfieur Clerck the French Kings Physician at Paris makes these differences in the cause of a Cancer. That without an Ulcer he fays is a sensless Tumor, arising from an Adust Humor, and calls it Cancer Primitivm ; but the Cancer Degeneratus, follows an obstinate and ill cured Tumor or Apostema, and therefore without turning to Cancer Occultus, grows into a Cancer Exalteratus. Dr. Munnick in his Chirurgies Pranis, lib. 1. C. 13. pag. 226. thinks the proper cause of a Cancer, was a gathering of Acid, Saline, Austere Humors in some parts of the Body, which as they grew more or less eroding, caused a Cancer Occultus or Exulceratus; but not long after, he fays, that thote Austere, Acid and Saline Moistures, came either from a too hafty or a too dilatory Cure of Tumors, where Matter being left behind and flut up, growing more Acrid and Acid, first grew to a Schirrus, after degenerated into a Cancer, and at length by its great Afperity, became Corrofive and Ulcerated. Blanckard in his Chirurgia lib. 3. c. 24. p. 334. calls a Cancer an eroding glandulous Tumor, or a Schirrous Induration of the Glandules which growing bigger by degrees, either by an Accident or an Acrid or Acid Humour stagnating and hardening in the Glands, turns to a Cancer.

and generally this small Tumor coming without Pain, is little regarded by the Patient, who never thinks of curing such a Trifle; but when this Tumor or Induration of the Glandules encreases, grows harder, and is accompanied with pungent and twitching Pains; then they want Advice, and the Cure may be performed with good Medicines, though

though not always; but when the Tumor becomes very large, and many of the Glands are obstructed and hardened, then no Medicines, though never fo good and penetrating, will fignific any thing; and only the Knife and sometimes a red-hot Iron can only perform the Cure. Of each of which methods of Cure, I will now treat particularly, and begin with Medicines, of which I shall give you the best that are known to Mankind.

Cure by Medicines.

Thole Medicines I mentioned in the Cure of a Scrophalm and a Noli me tangere, are also proper in the Cure of a Cancer: However, when you are called to fuch a Patient, apply the following Plaister over it thods of Cure. Att. at Eilly attendes the cause of a C. mraw tadwamol

Breatis, Part. 3, pay, 117, roan Induration of the Glandules, wherein 2001900 yd hB Emplastr. de Cancr. Fabricit Hildani, ust bos 200101 ods paillered & Disphoret. Mynfic. as. 3vi. Sal. Armonina & bourbong dount votes Pur, Arfenic, prapar, aa. Bifs. Gum. Opopanachni contoibeM ed or soluba Galban: Ammon. an. 31. Bdellit. ak. 311. Cale. of surroughler wing tong of Viv. 31. Sali Ciner. Clav. 311. Sal. Volatil. 12891100 01013 C. C. 3fs. M. f. dilig. O Malax. oum f. g. 19 mis out Ungu. Nobil. Mynfiebt. & Ungui de Arthan. vol . 191 9 an Acid and Vitriolick Juice, which ab myof lama have Blood Juices and being ulcerated, become more Acid, Saline Acid,

Though this Plaister is somewhat costly and troublesom to make, don't let that affect you si the Benefit will more than recompense the Charge; for it is an excellent Medicine for the Curenof Boyles and hard Glandulous Swellings an but if you cannot be to foon provided of it as your Buliness requires, make use of the following, which I have always found very proper in this Difeafe di hard medinoM . solub

these differences in the cause of a Cancer. That without an Ulcer the bas tom Emplastr. Diafulphurs Rulandide Ranis as s zi egel orl -indo no sucum tripl. Mercur. Vigon ad 13nil for Salmira 153000 11 -nous modil Armon. 31, Mastish Myrrhe avordil Antemoni bus oun Dispheret. Croe. Mart. Aperitivegas. 3 fo O 130 MED of Phi one of shart, Antimon, Arfeno puriff! tartar fætide vid sid ni kom eralin A miles. 3/s. Laterin. Bil. Cera gefe M. f. ad a lo outo req Humors in lome parts of the Body, whiththe Indant ew more or

If there Two Plaisters will not gradually diffolve it, I can affire you there is little good to be done in this Cafe with other Medicines? However, it the Cancer is already Ulcerated and the Patient is an willing to have it cut; then you must only employ a Patiative Cure and daily put into the Uleer Doleno's Ballam warmed, yd dignol is

Blanckard in his Chrysrgia lib. 3. c. 24. p. 334. calls a Cancer an erozelubnel on B. Cinnabar. Antimon. Di. Orul. Caner. Sato Shearny goib binoA ne to 184, 3i. Spermat, Cieti Bii. Campbor. gr. 10 gei page doider or anun abiBatjam, Peruvian. M. f. Balfaminagall momuel bioA 10

If this does not please you make use of the following in manner and generally this intall Tumor coming without Pain, is I his avode. ded by the Patient, who never thinks of curing fuch's Trifle; but -rad awary . Br. Terra Sigillat. Vitriol. rette edulcor. aangife eins nadw vod nodt ; afferuff. lot. Plumbenfi aa. Bill Sacobar. Sammei bas rob espisibald bederour, dulcis, as. 31. Ol. Wicothan, Tarean genth A inter deligu.

alguodis.

deliqu. Ol. Philosophor. aa. Dii. Bals. Peruvian. Copaiba aa. q. f. Misce dilig. ad Balsam. form.

Here is also another good Balsam, which is to be put into the Ulcerated Cancer as the abovementioned, which I have commonly used with good fuccels.

Re Arsenic. Chrystallin. Auripigment. aa. 3s. Virid. Æris Ariftoloch, Rotund. aa. Biifs. Minii 3/s. Camphor. 3i. Opii 3/s. Unguent. Nutrit. 31. Mifce f. artem.

Ballam, Antimon, Basilit Valentini is also an excellent Medicine in this cale, and to is that Ballam. Saturni Tulpii, which is described in his

Observations. Now we will proceed to the Cure of a Cancer by Manual Ope- Cure by Maration, in which divers methods are prescribed for the performance nual Operaof it. Selingen, l. 2. c. 4. recommends the old way of thrusting Two crooked Needles and Silk through it crofs-wife, and leaving the Ends hanging out of the Cancer, to pull up the Breast with them; and this manner is agreed to by L. Junken, Blanckard, Muraltus, Scultetus, Fienus, Aquapendens, Fabricius Hildanus and several others. For my part, I never used such a tedious method, but have had more Commiseration for my Patients, as this City of Breflaw can testify, where I have cut Nine Cancers out of Womens Breasts from the Foundation very successfully, and yet never used this way; for before the Needles could be thrust through the Breast, which is a prodigious Pain to the Patient, and the Ends of the Strings ty'd together, to put the Hands into, I have cut off the Breast in half the time only with my Hand, beginning where the Breast is soft. which is commonly towards the Ribs, and there if you find cause you may tye a broad ftring about the Breaft, behind the place where the Cancer is hard, to hold it by; but if that part of the Breast which joyns to the Ribs is all over hard and knotty, then neither thrusting the Needle thro' or cutting will fignifie any thing; 'tis a Noli me tangere, and you can proceed no farther, unless you can find a good bottom near the Ribs; as it happened to me about Eleven years ago, in the case of Mr. Michael Milschen an Innkeeper in Rautenskrantze, who History. had an Ulcerated Cancer on his left Breaft, of a very long standing, and but half a finger's breadth from the Ribs, which I cut off; yet finding that at the bottom some part of its Root remained behind, I presently took an Incision Knife with a small Button at the Point, and excoriated the whole with it; by which means he was perfectly cured in eight Weeks time, and continued well at the writing hereof, being never troubled with any fense of it fince. Therefore I say again, that you need not trouble your felf, or torment your Patient with Needles, if you follow my Example. Some there are that use Hooks instead of Needles, and others a particular kind of a Bag, in which they enclose the whole Breast, and tye it about it where the place is found, thinking they have done an extraordinary matter; but I ftill approving the way that has conftantly incceeded in my Practice, shall proceed to direct you in it.

When

Cure by Mar must Opera-

When your Patient has been sufficiently prepard for this Operation, by the Advice of an able Physician, and you have all things necessary on a Table by you; place your Patient on a Chair towards the Light, tye his Arms and Hands close and fast to his Body, about the Middle; and if you find it necessary, tye a Silk string twice round the Breast, towards the Ribs, as hard as the Patient can suffer it; to which string you may fasten Two other strings, tying them together on a knot, to draw the Breaft towards by them; but this is only to be done, when you think you cannot hold the Breaft firm enough with your hand. Then take a crocked Knife in your Right Hand, and cut towards the Right Arm, if you are to cut off the Right Breaft; and on the contrary if it be the Left; and with all the care and caution imaginable, cut out all you find hard or knotty, and as quick as possibly you can, while your Assistant in the mean time wipes away all the Blood, that you may fee the bottom, and feel any thing that is left behind, in order to excoriate it, or touch it I wo or Three times with a hot Iron. This being done, draw the Wound together with Two or Three (mall long stripes of a good sticking Plaister, and apply to it a fost Mushroom, upon which my Astringent Powder is laid pretty thick, and over that a good large sticking Plaister, and on that double Linnen Rags moistened in warm Wine; then roll it all over very firm with a good Roller and Bandager to keep every thing close and immoveable. On the second day towards the Evening, take all off, and new dress it again as before. If the Plaister and Mushroom will not come easily off, let it lie some days longer; but if it comes off well, apply to the Breaft the following Deterfive Unguent with Lint, and over that Emplastrum Sticticum Crollis, washing it Ten or Twelve days longer with warm Wine, and continue the former method till it's perfectly healed.

B. Terebinth. Cypr. Ziiii. Balsam. Vulnerar.

John Soll Hankii Zi. Pulv. Gum Elemi, Myrrh. Oliban.

Holdwills a. Zii. Vitell. Ovor. no. ii. Croc. Orient. Bals.

Jan Boll Boll Peruvian. a. Zis. Misce siat Liniment.

If the Wound will not easily Cicatrize, apply Empl. Saturninum Mynfishti to it, and that will soon answer your attention. Here I must
not omit acquainting you, that sometimes after all is well performed,
and the Cancer utterly rooted out, yet Two or Three years after,
a new Cancer will grow, either on the same or the other side, if the
Patient abounds with such Malignant, Acridand Acid Humors, which
again by obstructing the Glandules, generate a Cancer, as Cornelius
Cellus, 4, 5. c. 28. and Fabricius Hildanus acquaint us. I have also
observed the same in one George Klotzen a Countryman of Krysanewitz, whom I twice cut of a Cancer in both his Breasts; the first
time in January 1686, and the second in July 1688, and both successfully performed; nevertheless in the year 1689, a Cancer seized
on his Lips, which I cut off, and also Salivated him; but he died
shortly after.

In June 1689, I had a great Lady Baronness in Cure, whose Name or Family I must not mention, who had an Ulcerated Cancer on her Right Breast, near the Papilla or Nipple; but was otherwise of a

very fanative Constitution, and about Thirty Six years of Age. She was troubled with it above Four years, and now and then complained of violent Pain and Stitches. Dr. Jenisch, Dr. Ochm, and Mr. Christian Schlottnick were joined with me. After her Ladyship's Body was prepared with Internal Medicines, I cut it out one morning, in the presence of Dr. Tielische and Mr. Hans a Chirurgion in this City, exactly in the fame manner as before is directed; in which Operation the Lady loft not above Five Spoonfuls of Blood, from the beginning to the end. The Bandages being applied, and every thing done, the Lady was laid upon her Bed, without any kind of Faintness; but about Twelve a Clock, being suddenly taken with Cough. ing and Vomiting, the Blood gush'd out very fast, and she lost about the quantity of Two Quarts by that Accident. I presently cut all the Bandages and every thing elfe in pieces, and dress'd it anew with every thing fresh and clean as before, and bound it up as close and firm as I could; upon which the Bleeding ceased, and all other things were in a hopeful posture. The Vomiting which we dreaded as troublefome and dangerous, returned no more, and the Patient in less than Eight weeks time, was perfectly cured, without ever feeling any fign of it again; but Three years after died of a Dropfie.

geon's chigenes and the was to an expense and the entered child expense to order the ration IV. P. C. H. A. P. O. C. The entered childe

paid, morraels of Breath, and other III Accidents.

Fistula's in the Thorax, their Causes, Differences and Cures.

means make the Ort ward W WO Reasons have principally mov'd me to treat here of Fifula's in the Breaft. First, because I am of opinion that few Authors have handled that Subject as they ought to have done. And Secondly, because in my Chirurgia I have omitted several things ne-

cellary to be known.

Tis no ftrange thing to fee Fiftula's follow Wounds in the Breaft, The Caufe of for some of those Viscera being hurt, the Blood setting on the Dia- a Fishula in the Breast. phragma in time will putrifie; and if Nature and the thrength of the Patient's Constitution cannot throw it off, will corrupt the parts where it fettles, and at length produce a Fistula. This shews the reafon why fuch abundance of Matter is cast out, when such a Fistula is opened; for unless there was a great quantity of Putrefaction, it would not be able to force its way in the course it takes; and therefore the Chirurgion must take care to give it vent assoon as possible, to prevent the approach of dangerous Symptoms. These Fiftule's also very often arise from a Pleurifie of a very long continuance, especially if it causes an Apostema; for then the matter being not always wholly cast out of the Lungs, but some Crass and Viscous Corruption remaining behind, it grows to a Fiftula. They also proceed from Wounds in the Breaft, that have not been, or by reafon of their lituation, could not be well cleanfed, or fcoured with fuch proper Mundificantia, as necessity and the parts required; for then their Matter lies lurking in obscurity, and in time causes an Inflammation and a Tumor, and if the Sternon, the Spina Dorfi, or the Membrana

Pleura is wounded, it certainly produces a Fiftula. Muraltus is of opinion in Anatomico Collegio lett. 16. p. 300, that thefe Fistula's proceed from Defluxions of the Head and Breaft, and I will not deny it, though I am fure it very feldom happens. The fame Author in his other Chirurgical Writings, Observ. 138. pag. 415. gives us a remarkable Instance of a Fissula in the Breast, when he was consulted with the Famous Dr. weiffer, which I recommend to the perufal of the Ingenious, where they will find very curious hints relating both to the Cause and Cure of a Fiftula in the Thorax.

The Cure of

The Cure of these Fistula's are very difficult, yea, if I should say these Fistula's that of twenty scarce one is cured, I should not impose upon the Reader. Internal Medicines in these cases signific nothing; by Outward Applications they are seldom the better, because they cannot reach the bottom of them, and Injected Liquors are hindered in their Operation, because they stay behind with the Matter, and bring nothing out. Aquapendens lays, Chirurg. part. 2. cap. 48. that if they are in some measure brought to a Cure, the Patient must be forced to wear a Pipe in the Fittula as long as he lives, to keep it open and give vent to the Corruption: Yea, the Chirurgion must always be at hand, because the Pipe is often stopped, which causes great pain, shortness of Breath, and other ill Accidents. Pigraus not only says these Fistula's are incurable; but adviseth, fince all the Chirurgeon's diligence and care was to no purpose, to employ only Paliatives; to order the Patient a proper Diet, and to keep the outward Orifice always open, fince the Patient never survived long, but always died in great pain and misery after the outward Wound was healed up. But what is then to be done in this Case? To which I answer, first, by all means make the Outward Wound larger, to give the Pus and Matter a free Passage out, and that the Injections may reach the bottom of the Fiftula. Then inject the following Liquor warm Two or Three times a day, and put a Leaden or Silver Pipe into the Wound, that the Corruption may be constantly running out.

R Hord. mundat, Rad. alth. Arifol. rotund. irid. flor. aa. 3 f. fol. Veron. Alchymill. thea. agrimon. aa. Miss. flor. centaur. min. prunelle. rofar. aa. Mi cog. in f. q. vin. Sagu. Mellis ; deinde exprim. Colatura 3xxv. adde mell. Chelidon. Bifs. rofar. Bi. Myrth. in Spirit. vin. folut. Bi. M. f. Injectio. & appl. f. a.

> If this should be something too troublesome, take the following, which I always used in the Army, and found it very beneficial.

Be Decott. hordei mund. & rad. arifol. long. c. aq. for. prunell. 3xii. balfam ad fiftul. mi. 3i. aloes, myrrhe, Sarcocolle, aa. 3is. Jacchar. Saturn. 3ii. M. f. Inject.

Inwardly the Patient may take very often Pulv. rad. Confelid. 3i. and of this Vulnerary Potion, a good Glass full Morning and Eve-

Plenes

Re fol. veron. malva, pulmonar. as. Miss. berb. beton. Stabiof. aa. mi. rad. irid. flor. Scorzon. at. 3/5. Liquirit.

3v. sem.annisi 3iii fs. Fæniculi 3ii. rhubarb. Foh fenn. aa. zvi. rad. chin. fafsafr. aa. 3fs. ocul. canc. fpermatis ceti as. Biis. coquantur in Aqu. Mellis & aqua Tusilaginis quant. f. per dimid. hor. postea adde colaturæ Syrup. papaver. Errat. 311. Fiat Decoctio.

The Outward Wound may be kept open as long as you please with Tents and a good Stiptick Plaister; but if you defire to heal it up, you need only apply the Oppodeldoch Plaister to it; but this I would not have you attempt without the advice of an able Phyfitian, left the Patient should grow worse by healing it up too soon.

In the next place I shall give you a curious Observation tran-scribed from the Ingenious Blegni, which was communicated to him by that Famous Chirurgion Monsieur Boirel of Argentueil, and after

that another of my own.

The Son of a Great Nobleman De la Genevrage, was pull'd into History from the Breast with a Sword on the right Side, between the Fourth and Mr. Blegni. Fifth Rib counting downward. When I came to the Patient I foon perceived by the shortness of his Breath and clear Blood running out of the Wound, that it had penetrated his Breaft 3 for whenfoever the Lungs are wounded, difficulty of Breathing and Ratling in the Throat do always accompany it; the Blood comes foaming out of the Mouth, and that which issues out of the Wound is of a Fine Crimson Colour. In the first three days there came out two Pounds of Blood, and two days after at every Dreffing about two Ounces of a very viscous Red and thick Moisture, which congealed assoon as received into the Porringer. However, this plentiful evacuation could not prevent a Fever, which seized him on the Sixth day, and continued with great violence till the Fourteenth, attended with a Cough which increased every day, and was a dangerous Symptom. The Tent came also out of the Wound very Black, and yet there was no fign at all of any corruption in the Cavity of the Breaft. The Fifteenth day the Cough abated. The Seventeenth a Substance partly Flesh, partly Membranous but very rotten came out of the Wound, with above three Ounces of bloody coagulated Matter, after which the Tent never look'd black again as before. The Eighteenth, Nature cast out another piece of a Flesbly Substance, and as much matter as the day before, to the great Ease of the Patient; but this Evacuation not succeeding on the Nineteenth day, the Patient was taken with a very great cold and shivering, and after that with a Hot fit of a Fever, which abated the next day towards the Evening; but presently after such another fit seized him worse than the first; tho' the Fit was not so violent and intermixt with some gentle breathing Sweats. These Paroxisms the' they are commonly the Signs of a returning Fever, yet all the Physitians thought they proceeded from some latent Sanies in the Cavity of the Thorax; so that at their defire, tho' contrary to my own Intentions, I was forced to make a Paracentesis, or opening into the Chest, upon which followed some drops of Blood with a kind of blowing and a steam ; Now after they had feen this, and found the Operation was to no purpose, they desired it might be healed up again. Two days after this Operation, there came out of the old Wound a small piece of

a putrified Membrane, and more than half a pound of stinking Matter, which continued flowing more or less every day, sometimes white and other times blackish; but this brought the Patient into a Consumption. Afterward the Wound turn'd to a Fiftula, and the Patient was forced to wear a Pipe cover'd with Emplastr. Andrea a Cruce two years together. However, all this time the Patient kept a good Dyer, lived very temperately, and by the constant use of Womens Milk, the Wounds were healed, and the Patient fo perfectly recovered, that afterwards he used all the Exercises of a Fencing School, which requires good Strength and Activity of Body; he Married, begot feveral Children, and lives in good Health, tho every one Thought him in a Confumption before he was wounded. This Observation I thought fie to infert in this Place, to let you understand, how such Patients may fometimes be cured, contrary to all Opinions and Expe-Etations; to the end that the Chirurgion may not despair, but use all possible endeavours for the Recovery of his Patient.

Observation.

In In the Year 1690. Michael Werner an Inhabitant of Langen wiefe under the Jurisdiction of sandretzky; 38 Years of Age, was brought to me, who Three Quarters of a Year before, was wounded by a Country-man with a Hay Fork through the Sternon, and to unluckily, that the Weapon went into the Mediastinum, and so the Water in the Cavity of the Breaft fell upon the Diaphragma. A keeper of a Bath in that Place had him in Hand all that time, and had given him a Pettoral Decocion but without Effect. As foon as he came to me, I made a good Injection to Cleanie the Breaft, and gave him a proper Dyet Drink, after which he began to mend a little, and the Wound did not ffink fo abominably as before; but perceiving a little swelled place like a Tumor towards the right Side, I perswaded the Patient to let me open it, and I was the more enclined to it, because he complained of a great pain in that Place; he confenting to it, I opened it on the Twelfth Day after he came to me, with such good success, that above a Pound of very filthy Corruption came out of it, which gave him great eafe, and the Wound made by the Pitch-fork, healed up in Ten Days time. But out of the Ineifien which I made, there came out constantly abundance of Matter and of a very ill Seent, which continued to for about a Fortnight: Then the noyfome Smell began to grow better; nothing but a thin clear waterish Matter run out, which in a Month after totally ceased and the Wound was healed up alfo. The Patient Lives at this time in good Health, and never fince had any Symptom of his former Diftemper. In this cale I cannot but observe, that all the while the Patient was under my Care, he never complained of any Pain about the Region of the Diaphragma, which had been to long burdened with fo great a Quantity of Putrid Stinking Matter, and in fo fenfible a part, which I cannot confider without Admiration, and as a thing which ought to be further enquired into; nor can I omit taking Notice that tho the Paracente is was of no use in Monlieur Blegni's Observation, yet employed in a right Time and when Necessity requires it, 'twill certainly fave a Mans Life, as it did in the cafe of this Countryman.

they defired it might be healed up again. Two days after sention, there came out of the old Wound a finall piece of

sirer they had feen this, and found the Operation was to no

If Macter flays long there, the Disphragms as well as the Lang will fuffer Patrefaction, as I. Vig A Wil Arth Do another in Respiration, and con'equently may be more castly injured, and the longer the

Paracentelis, Thoracis, or the Opening of the Breaft, what it is why and how Performed 3 wang ad yam dardw This Operation must not be enterprized without a due conside-

Operation, which gives immediate case and relief to the Patient.

Ince we have often had occasion to mention a Paracentesis, I will here Describe its Operation and Use, with all its Circumstances; as properly belonging to the more curious parts of Chirurgery, and of

great use in the Wars.

Paracentelis, is an Incision made with a large Lancet in the hollow What it is: part of the Breaft, for the Evacuation of Matter, Sanies and other Moiflures contained in it when the Breaft has been hurt or wounded. lay other moiltures and depraved and Extravalated Juices, because a Baracentesis is used in several Diseases, as I shall shew Anon. Ancients performed this Operation with a Potential, nay fometimes an Actual Cautery; but I rather advise it to be done with a good Lancer, or a convenient Incision Knife; which will do it with more ease, speed and fafety; For if it be done with a Cautery, you mult wait fome Days before the Escher can be separated to give the Corruption Vent, but by Incision the Patient is made easy in a Moment. Besides, several Accidents attend Cauterizing, and sometimes nothing less than the Death of the Patient.

Many as well Accient as Modern Authors, are utterly against this Authors Opi-Operation in any case what soever, and say, that it never effected any nions concerthing, but only increased the Patients Pain and Torment; for the Lungs and Heart were weakned by the Access of too much Air, and by continual Exasperations the Lungs putrified and the Heart was lo enervated that neither of them could perform their necessary Fun-Ctions. Among the Ancients, Paul. Egineta, Hollerius, Celfus and Avicenna were chiefest. But if they had read Hippocrates de affectibus Internis Morb. lib. 3 Cap. 15. they would have entertained other Opinions; for he in those Ancient times wrote incomparably of Paracentelis Thoracis. Among the late Writers this Operation has also had its Enemies; but I suppole it's only because they never experienced it, or don't understand the use and benefit of it. For my part I can truly say, that I have had the Tryal of it many and many times, especially in the Camp, and that with the greatest Success Imaginable; for in Wounds of the Break, where the Patient is almost suffocated and ready to Yield up his Life, the Opening of the Breast, in a Minutes time will Snatch him from the brink of the Grave.

Now the reason why this Operation is in use, is not only because why this after the Internal parts have been wounded, the Blood and Putrifyed Operation Humors should not Fall and Settle upon the Diaphragma; but that other chnoxious Humors and Moistures gathered there, might be evacuated. Such are the Dropfy in the Breaft and in an Empyema, Vomica pulmonis, and in Great Defluxions of the Head and Breast; for in all those cases, there is a Collection of Slimy and depraved Juices. In all Imposshumations of the Breaft, there is also a gathering of Blood and Matter, which fettles upon the Diaphragma, and cannot be taken away but by this

Opera-

back-

Operation, which gives immediate ease and relief to the Patient. It Matter stays long there, the Diaphragma as well as the Lung will suffer Putrefaction, as being Assistants to one another in Respiration, and consequently may be more easily injured, and the longer the Matter stays, it grows more acrid and corrupt, and by its Acrimony makes an Erosion upon the Diaphragma, and brings it to Corruption,

which may be prevented by this Operation.

This Operation must not be enterprized without a due consideration of the subsequent Indications; as of what Constitution the Patient is; for if he is weak and enervated, lean, pale and fallen in his Face; if he rattles in the Throat, his Breath short, and complains of oppression at the Heart, and continual Stitches in the sides of his Breast, you may give him up for a dead Man, you have overstaid your time, and if you attempt this section, the Wounds are so dangerous that he will die under the Operation, and by doing it you will bring a Scandal upon the Work; for People will not cease

to affirm that he died by his Breast being opened.

But if you are certain that there is much Matter in the Breaft, which you will know if you cause the Patient to turn himself suddenly on the other Side; for then you may hear the noise of the Water falling from one fide to the other; you must begin the Operation without delay, before other dangerous Symptoms appear. If there is an Impostume, the Patient will complain of pain on that side where it lies, the part will rife, grow red and be inflamed; fometimes the Patient will be cold and chilly, and other whiles feaverish; he will complain of great pains in his Back, violent Coughing, and a great heaviness and oppression at the Heart. All these Symptoms you must diligently observe, and direct your Operation accordingly; I mean on that side where the Water is, where the Impostume shews itself, and where the Water swells and raises the Breast; for the Mediastinum divides the Breast into Two parts, and if the opening should be made on that fide where the Wound is not, it would be a fruitless Operation; unless the Wound being very high, you find cause to make Incision in both sides of the Breast; as it happened to me in the case of Ensign Quitzow, at the Siege of Stettine, where I first made an Incision on the right side of the Thorax, and four days after another in the Left Side, and both with great Benefit to the Patient.

There is great differences in opinions between the Ancient and Modern Writers, about the place where a Paracentesis ought to be made. Some would have it made between the Third and Fourth Rib, according to Hippocrates, Alex. Benedictus and Lusitanus; but Aquapendens and Sennertus will have it performed between the Fifth and Sixth Rib. Franus, Riverius, L. Junken and Munnick, say it's better done between the Fourth and Fifth Rib. With the First Tulpius agrees, and is certainly in the right; for the others are too low, and therefore I constantly performed it between the Third and Fourth Rib, and always with good success. Once I remember I was forced to make an Opening between the Fourth and Fifth Rib, in the case of Christian Lorentz, a Corporal in the Regiment of Colonel Etrnimb, because the seituation of the Diaphragma was very high. The proper place without doubt is the middle of the Side, not too much

backward or forward: Not too near the Sternon, because there lies the Mediastinum, and too near the Back you will be in danger of hurting the Nerves, which will cause miserable Accidents; nor can it be so well performed in that place, because the Ribs there are broader, thicker and nearer one another than in the middle part of the Side; not to mention the Muscles which thereabouts are stronger than in the Side. Hippearates of old, and Monstr. Blondelet Chirurgion at Toulon of later years, would not have it done at all between the Ribs; but direct that the Ribs themselves should be bored through, and then the Membrana Pleura might be push'd throwith a Lancet; but I cannot agree to it; for to what purpose should we give the Patient so much trouble, when an Incision will do the work both speedily and safely; and you need but make use of your Eyes and Fingers to find the space between the Third and Fourth Rib.

To perform it after the best manner, having given your Patient fomething to drink, to comfort him and support his Spirits, and having all things in readiness on a Table near you: Set your Patient towards the Light, mark the place where you defign to cut, let your Man hold him fast, then take hold of the Skin with the Two foremost Fingers of your Left Hand, pull it upwards from the Ribs, cut it through a Finger's breadth and let it go again; then let your Affistant pull the Lips of the Wound from one another, that you may better fee the Ribs, and to cut the rest quite through. If the Patient is lean, there is no need of cutting twice. Let him hold his Breath to hinder the Expansion of the Lungs, and then, your Lancet being guarded in the middle or thereabouts with a Pafter to hinder it from flipping in too far, push it through a little slanting as far as the Ribs will permit; then immediately put in the abovementioned Pipe, and fasten it with strong sticking Pasters applied round the Body, keeping it's firings close to the Skin. Of these Pipes you ought to have leveral fizes at hand, to choose one that is fittelt; for if it be too fort, the Membrana Pleura will come before it and flop it, and if too long it will cause dangerous Accidents, as Coughing, Stitches in the Sides, &c. If there is much Water or Matter in the Cavity of the Breaft, let it out by degrees, and not you must rarifie it with the following Injection, and having done that a little while, let the Patient turn himself on the Side that is opened: Shut his Mouth and Itop his Nofe, that the Lungs and Midreff may fivel and be freiched out, and the Intercostal Muscles and these of the Abdomen by being compressed, may expel the Fus or Matter contained in the Breaft. The Injection is thus prepared.

nav e Be Decott, horder, rad. irid. flor. & rad. alth. c. f. q.
200 blood aqu. alchimill. 3vi. mell. rofarum, 3fs. facch. faturn. 3ifs.
12d all ve effe myerh. opis aa. Di. M. f. Injett.

But if the Internal Accidents, as the Cough and shortness of Breath should yet continue, then you must give the Patient this following Potion Three times a day.

Re Decoet, tustilag. sem. fæniculi & anisi, c. s. q. aqu. byssep. 3xii. Ol. anisi distill. Fis. syr. rad. pimpinel. 3ss. M m papaver errat. 3iii. facchar. cant. alb. 3v. ocu!. cancr. Birfs. mumia 31fs. spermat. ceti Bil. Misce f. Potus f. a.

When you fee the Fus grows less and begins to cease, you may take cut the Pije, and only put a Tent in it strewed over with the Powder of burnt Aloes, and withal use the following Balfam to get a found and good Foundation, and then heal it up by degrees with Emplajirum Oppodeldoch.

> R Ung. digefliv. Bill. balf. vulnerar. Hantkii Bill. peruvian. 311, terebinth. cypr. 31. myrrb. farcocol. as. 31. larg. dracon. Diiss. M. ad for. Baljami.

Harzer, the Famous Span fb Chirurgion at Valladaoilled, has fomtimes performed this Operation in an Empyema, between the second and third Rib, if he thought that place was fittelt for his purpole, and afterward cured it successfully only with Decoctum Sarfaparilla, mix'd with a little Effence of Myrrh. I cannot but admire how it Chirurgia came into Licentiate Juncken's * head, to fay there were but few Chirurgions in Germany, that had Courage enough to undertake this Operation; fince he cannot but know he wrongs us in a high degree, as can be proved beyond contradiction by many and dayly

Examples.

PERSONE

manualis abfoluta, Sect. 2. oper. 2. c. 9. P. 273.

Observation.

In September 1691, a Country woman from Grasburg near Streehlen, about 58 years of age, came to me for help, who laboured under a Pleurocele or Dropsie in the Breast, which was puffed up with Water to fuch a prodigious degree, that the could not fee her Feet, and what was to be admired at, never complained of any shortness of Breath, nor pains and stitches in her Sides, or any other Ailment, but was more active and nimble than was possible to be believed. All that troubled her, was, that the could not lie down in her Bed, but was forced to fleep up in a Chair. I opened a place in the Right Side, between the Third and Fourth Rib, in the prefence of Dr. Schaltz, and drew out about half a Pint of Water. which was repeated again the same Evening, and so I continued Three or Four days; but afterwards leffened the quantity, and drew away but Two or Three, and sometimes but one Ounce at a time, and as the Water decreased, I used the above-mentioned Injection. infomuch that in Ten weeks time the was perfectly cured. You must take great care in dreffing it, to let in as little Air into the Breaft as is possible, for it will occasion very heavy Symptoms; of which you have a curious Observation in Ephemeria. Curiof. Observ. 55. Decur. 2. It is also worth your while to consider, that such a vast quantity of Water, lying lo long upon the Diaphragma, should not run into the Lower Belly, fince it might have found its way thither through the perforations made by the Oefophagus, the great Artery Bot it the Internal Accidents as the Cough and thorness .nisVaboa thould yet continue, then you must give the Patient this following

Berge Halling fem faricult & ans. c. f. a. agu

by for Bur. Of only differt, 3 fr. vad. plury met. 3 fe

Potton I here times a day.

CHAP. VI.

Of Fistula's under the Diaphragma, that enter into the Stomach, with Two very curious Observations.

Am very sensible that these Fistula's in the Stomach do very sel- From whence dom happen; but because they sometimes do occur, though not they proceed. always as the confequence of a Thruft, Gun-shot, or other external Accidents; but have been caused by Internal Accidents and erosion of the Stomach it felf, therefore I will treat of them here in my Chizurgia Curiofa, because I have had large experience of them in several Examples, especially in the cases communicated to me by Mr. Raupbach of Roflock, Mr. Schulfer of Brunswig, and Mr. Krause of Quedlinturg, of which I shall say more anon; in the mean time it's no controversie among us, that Fistula's in the Stomach may be caused by feveral unthought of Accidents, as by the Heer van Herberdt of Harlem, his swallowing a Seal; upon Monsieur Collichon a Musician at Paris, his swallowing a writing Pen, and Madam Hiddensen of Leiden, her swallowing a Pin; and not only the Stomach, but several other parts of the Body are subject to Ulcers and Fistula's, as the Guts, Gall-Bladder, Bladder and Kall, how tender soever they are in Children, vet are liable to these Distempers, as I have often found in my Praclice. At first they are small and inconsiderable things, not worth the minding; but lurking a long time in the Body, the Patient complains of an oppression and pain in the part where the Ulcer is, which should excite the Chirurgions diligent Enquiry into the first Cause, to prevent its further Progress, and provide for its Cure.

Hence you may conclude, that the Cure is very difficult, and chiefly depends upon the Administration of proper Internal Medicines, because Externals cannot reach the Part affected, except Cataplasms for the mitigation of Pain; but when Nature has forced the Difease towards the Skin, and it tifes more and more outwardly, then the following Plaister will draw it more forward, and bring it to Matu-

rity; if it be applied warm Three times a day.

Mr. Kranc

Re Emplastr. Diachyl. cum gumm. 15/5. de Mucilag. Silvii 3vii. pulv. fæn. bon and grac. Sem. Lini, rad. Alth. as. 3iii. and alban Farin. Fabar. 3/s. curcum, 3/fs. soul ada od Gumm. Galban. Gi. M. f. ad Emplaste. Lelevina confifentiam.

This is an excellent Mollifying Maturating Plaister, and will perfeely answer your intentions, and when it is come to Maturity, you must cut it open to give the Matter vent. As for what else remains to be done, you will find it in the following Historical Observations.

Mr. Raupbach an eminent Chirurgion in Rostock, in the year 1689, fent me a notable Observation of a Student in that place, who being Historical Obfond of cating Fribuli aquatici or water Caltrops, gathered some in servation.

the Month of September, and having not the patience to stay till they were half boiled, swallowed them down so greedily, that half a shell of one of them went down with the Kernel, which he minded not in the least at that time; but about half a year after, he complained of a violent oppression and pain at his Stomach, and consulted a Physician and Mr. Raupbach to give him ease; who for some weeks gave him Internal and External Medicines, but to little purpose. length after the application of Emplastr. de Gummatibus Sylvii, a Tumor appeared about the Region of the Stomach, which in a Fortnights time came fo forward, that on the Sixteenth day he opened it with a Lancer, which for Four days together threw our abundance of filthy carrion-like Matter, and the Fifth after the opening, he faw the Caltrop (bell, right against the hole that was made by Incision, which hole being made a little wider, the Caltrop-shell was taken out the same day ; and jet after all the pains and care Mr. Rangbach took to heal it, nothing would do; but it remained an Open Fifula, because he could not come at it. Now is not this very strange, how such a soft and large shell, should continue so long there without being digested or worn away by the Stomach, and that the edges of it had power to bore through the firm and strong Coats of the Stomach, without injuring any Internal parts that lie near it; especially if we consider the great quantity of Putrefaction wherein it was contained, and yet that this Shell should come out in its own shape, without being rotten, is certainly very wonderful.

Mr. Schulfer's HistoricalObfervation.

In the year 1680, when I lived as Chief Chirurgion in the Plague at Halberstadt: Mr. schulfer, a famous Chirurgion at Branswig, fene me the following History of a Glover he had in Cure, about Twenty Nine years of age, who having a sharp Three-edged Needle in his Mouth, and feeing his Child fall off the Table, was fo frighted, that the Needle suddenly and unawares slipp'd down his Throat, and without any difficulty found a way into his Stomach. At first he felt but little pain, and carefully observed if it would go away by stool, but met with nothing but a continued disappointment, for no Needle was voided. Three quarters of a year after a Tumor role about a hand's breadth above the Navel, which in a menth's time grew as big as a Wall-nut, but without pain, unless you touch'd the place where the Needle was, and then he found a pungent and pricking pain in the part. This caused him to send for Mr. schulfer, who immediately applied a Cataplasm to it, and with such success, that the Fifth day the Needle might be perceived, which he drew out with a convenient Forceps, and was only fomething black, and worn away a little about the point; for he fent me the Needle that I might see it. Then the Chirurgion was forced to make the hole fomething larger, because the Inflammation and Pain encreased, out of which in Three weeks time came abundance of flinking Pus and Corruption, which being voided, he used his utmost care and skill to heal it up, but all to no purpose, for it continued an Open Fisfula. This Observation methinks is no less wonderful than the former, that after so long a time, the Needle should first work its? way through the Stomach, and then into the Belly, and yet should not be worn away, ner injured by the Acidum in the Stomuch, and also that the Putrefied Marter could lie fo long in that place, and do no more hurt to the neighbouring parts. Mr. Krane

Mr. Krause a well experienced Chirurgion at Quedlingburg, fent me Mr. Krause's a Letter in the Years 1679, the Contents whereof was, that he had fervationthen in Cure one Christopher Nahrich a Taylor in Mannisfeld, who as he was walking in his Masters Garden in september, pull'd off an Abricot and fell to eating it, but feeing his Mistrifs coming towards him, he swallowed it Stone and all; whereupon he presently felt a great Pain in his Stomach and fainted away in the Place; perhaps caused by the Stone flicking in the Orifice of the Stomach; for about an Hour after came Mr. Krasse, and gave him something to Drink, which I believe removed the stone, because he was soon easy after it. After some Questions asked him touching the cause of his Illness, he told the Chirurgion that he had swallowed the stone of an Abricot, and he seeing the Taylor was well after it, minded it no more, in expectation that it would take its natural course of Evacuation; but Three Weeks after that, he was fent for again, and found the Patient had a great Tumor as big as an Egg towards the right Side, about a Hands breadth above the Navel; upon which for Eight Days he laid an Emollient Plaster, which performed its Office very well; but the Patient was all this time in great Pain and Milery. November 18 he opened the Tumor in my Presence, and to our great Admiration, one half of the shell of the Abricot Stone came out with the putrifyed Matter, and Six Days after the other half followed also! In the mean time, a small quantity of Pur came away, but nothing of what he Eat or Drank came out of the Stomach: Nor did he complain of any Pain in the lower belly; or evacuate any Pus or Corruption by Stool or Urine which was reasonable to expect he should; because such a stone, must necessarily make a large hole and perhaps almost in the bottom of the Ventricle, and therefore I thought some Matter or other might easily fall down into the lower belly, and there force it's pallage or cause Putrefaction. Mr. Krause took very great care of him, but could not prevent it's growing to a Fiftula ! Which I faw the Patient troubled with Five Years after, in the same Condition; calling upon him as I went through Quedlingburg to Brefliw in August 1684. and yet, which was much to be admired at, the Man was otherwise healthy, pretty Fat and Strong of Body.

Here we may fee to our great Admiration, how indulgent Nature does its utmost Inwardly for the relief of Mankind, in these difficult Cales; but the Chirurgion may effay all imaginable Methods and Medieines, but can effect nothing, because he cannot reach the bottom of it, and therefore if one in Twenty Recover, he is obliged to give God Thanks for italians

In the Month of May, 1688. I had a great Nobleman in Oure from An Observa-Glaseau, of the Family of Kotwitz, who was fadly afflicted with a tion of the Au-Piftula in his Stomach, which happened by the falling of his Horse as he Rod a hunting, in which he hurt his Stomach against the Pummel of the Saddle, which he little regarded at that time; for the it fo weakned his Stomach that all he Eat and Drank came up again, and had continual Pain in the Place that was bruised, yet it went off by Degrees without Suspicion of future Danger. However about a quarter of a Year after, he saw arise in the same place a fort of a Boil, which by Degrees growing bigger and bigger, he employed a Chirurgion at Glogan, who applied a Cataplasin to ripen it. A while after he was pleased to put himself under my Hands at Breslaw, and I having confi-Nn

A rother Obthe Authors.

dered the Case, applyed a Pultis to it likewise, and perswaded him by all means to let it be Opened, which was done next Morning in the Presence of Doctor Tyelische, and followed by abundance of stinking Corruption, and above an Ounce of small Raisins which he had Eaten Eight Days before. Next Day came away more, with a little Sallas he had Eaten the Evening before; which obliged us to conclude without surther Doubt, that the Impostume went into the Stomach, which I found afterward by searching it with a Probe: I injected the following Liquor into it with a Syringe, and always lest a small Silver Pipe in the Orisice to give the Matter Vent, and hindered the outward Air from coming to it with a good Plaister and doubled Linnen Rags to a considerable Thickness.

Rad. Consolid. maj. Aristoloch. long.

as. Zi. Alchimill. veron. Sanicul.

as. Mi si. flor, rosarum. Mi. incidantur,

& infundantur. in aque fontis, Mensur.

per Noctem, hinc ad dimid. part. decoquantur.

Colature addantur Mell. Rosar, Zi.

Essent. Myrrh. Zii. M.f. Inject.

This Course I continued above Three Weeks, and then the Pus beginning to decrease by Degrees, and no more Aliment coming forth; I kept the Wound open almost a Month longer and often dropt into it the following Balfam.

B. Mell. Veron. Chelidon. aa. 3i.

Succ. Momordie. inspiss. 3s. Myrrh.

Sarcocol. aa. 3i. Aloes 3s. Sacchar.

Saturn. Diiii. Misce f. Balsamus.

After Eight Weeks I took out the Silver Pipe, and dres'd it only with a Tent of Lint, which as the Pus decreased I made Shorter and Shorter, and at length took it quite out, and perfectly healed up the Wound with Emplastr. Oppodeldoch. Three Years after I had the Honour of discoursing this Nobleman again, who was pleased to tell me he was never in the least troubled with it since, but continued as well as ever he was in his Life.

Another Obfervation of the Authors.

An Obferna-

tion of the Au

thous.

In July 1693. I had an Eminent Gentleman of this Town in Cute, whose Name I have no Authority to Publish, because he is yet alive. He had a Fissula in his Stomach of Three Years continuance, being otherwise indifferent healthy and about Thirty Years of Age. The passage of this Fissula was not direct but oblique, inclining towards the left side full Three Fingers broad, and then went sirst into the cavity of the Belly, and on that side into the stomach. Without further hesitation I presently made an Opening in the Belly, and another directly over the Fissula in the Stomach, and healed up the other passage in Three Weeks Time; but the other opening no Medicine would prevail upon. Sometimes it would look very well, and in Six Weeks I had obtained a good bottom towards the Foundation, so that we were in hopes of a Cure; but all of a sudden it broke out again and a stinking Pus issued out. When the Fissula began to close up, we all observed that the Patient complained of greater Pain than usual, his Flesh

fell away, and his Strength decayed. We therefore enlarged the Wound by Incision, that the Medicines might go to the bottom. Then I law that the Ribs on the infide near the Fiftula were quite black, which I attempted to take away with the Phlegm of Vitriol, but not succeeding in it, I scraped them, and in Three weeks time, covered them with good found Flesh. The bottom of the Fiftula in a Months time was closed up again by my Balfam mentioned in the foregoing Observation; but with very ill consequences; for the Patient immediately loft his Appetite, and the Pains and Torments in his Belly returned with greater violence; whereupon, by the Advice of feveral Physicians, the Fistula was ordered to be kept open, and only such Medicines to be applied, as would prevent its Inflammation and further progress. This was done in April 1694, and the Gentleman at the writing hereof, was in indifferent good health. The Fiftula is still open, and now and then fends out a shiver of the Ribs, where the Fistula forces its way, but without any great incommodity. Here the Chirurgion and Patient may observe, that it is not always the best course, to heal up this kind of Fistula's, because the Patient generally grows worse after it, as in this case 3 where it would most certainly have killed the Patient, if the Fiftula had been healed.

CHAP. VII.

Paracentelis Abdominis, or the Opening of the Lower Belly, bow to be performed that no ill Accidents may attend it.

His is a particular Operation, and feems fomething dangerous; Opening the but if undertaken, where the Patient is not too much weak- lower Belly. ned and very aged, it may be done very successfully, and in a manner fave the Patient from Death, as will plainly appear in the last following Example: Therefore let none be frighted at the terrible representations of some Authors that cry it down; for I have known abundance of People, that have received great Benefit by it, to the Honour of the Operation.

Dr. Decker of Leyden, * has given us a very rare Observation of *Obser. p. 184

a Woman of 48 years of Age, whole Belly was of a prodigious bignels, and Three yards in circumference, which was opened twice on the right Side, a hands breadth below the Navel; and that it fucceeded to unhappily, must not be attributed to the Operation, but to the ill state of the Viscera, which may be read at large in that

Treatife.

To discourse about the cause of a Dropsie, is none of my business in this place; it must suffice, that I say, 'tis an Operation common-ly practiced in that kind of Dropsie called Ascites; which is a gathering and accumulation of Water in the Abdomen, between the Peritoneum and the Viscera residing there, which cannot be evacuated by any Medicines, with fo much ease as by this Operation. In particular Dropfies, some make an opening in the Pudenda, the Scrotum and

done

Legs; but this feldom fucceeds without a Gangreen attending it;

of which more in the following Observations.

What place to do it in.

Authors are at no agreement about the place where this Operation is to be performed. Some will have it cut above the Navel, others in the Navel, especially if it is very much swell'd and stands upward, as it commonly does in this case. Others will have it done under the Navel, with whom I agree, without rejecting the opening in the Navel, if all Circumstances correspond and require it; for it has often succeeded well with me, after having only opened a little hole in it with a Lancet. Yea Nature sometimes forces it thither, to such a degree, that the Navel is tumified with Water, and if not remedied in time, tears it all in pieces to make way for the Water to go out. I generally make this Paracentesis Abdominis about a hand's breadth under the Navel; or if the Belly is much swelled, Two fingers breadth lower, toward that fide which I think most convenient for my purpole; always taking care not to hurt the Lines alba and the Vala Umbilica: Nor do I love to make this Operation above the Navel, because the greatest part of the Water lies below in the Belly, and you would only let out the thin Water, and leave the thick at the bottom of the Belly, which in time as I have obferved, will corrupt and spoil both the Bowels and Bladder. Dr. separt. 3. c.'1. lingen in his Chirurgia, part. 3. c. 1. p. 211. * adviseth the opening to be made Three or Four Fingers broad below the Navel towards the Side: that it should be done with a Lancet, and the hole made no bigger than a Pea, to put a small Tent of Lint into it. I agree with him in the place, but not in all the other points; for where the Belly is much extended, and hangs very low down, that place is too high. Nor do I contend about the bigness of the holes; for very large ones will let the Water out too fast, and those which are too little, will hinder the Chirurgion from letting out as much Water as is requifite: Between these Two Extreams the Medium is the best, neither too big nor too little, but such a one as is most convenient and beneficial to the Patient. But if as I have faid already, the Navel is swelled very high, and you find the Water is willing to make its passage out that way: Follow Nature and open that party the sooner the better: For if you flay too long, or wholly neglect it, there will happen a hole, or after Evacuation the Navel will putrifie, which will be but little honour to the Chirurgion, or benefit to the Patient.

The Operation.

P. 211

† Tabul. 4. fig. 4.

The Operation must be done with the Lancet, or an Incision-knife made for the purpose; or a Cutting Instrument cover'd with a Pipe having a broad head, that after the Cutting Instrument is taken out the Pipe remains in the Belly. It Of the ancient Method by Causticks I shall take no notice, the ill consequences that attended it, having caused that Operation to be totally rejected. Begin therefore in this manner; place the Patient upon a high Chair, if that can't be done, let him lie on the Bed with his Belly rais'd high, and let your Alfiftant stroke up the Skin with both his hands, and hold it fast till the Operation is accomplished; to keep it in a due posture while the Water is evacuating. This being done, mark the place with lok where you defign to operate, and put in your Lancet or Incisionknife so deep, till you find the Water gush out upon you; but make the hole no bigger than that of an ordinary Goofe-quill. This being

done, and as much Water drawn out as you think convenient, put a Silver Pipe into the Orifice, and guard it well round about with a good flicking Plaister, and put a Cork into the Pipe to keep in the Water, that none may come out, but when you defire it should. Through the Cork may be drawn a small Packthread to pull it out by, as is usual in Clyster Pipes. Into the Pipe which is in the Belly, put another Pipe of a quarter of a yard long, that the Water may run out into a Bason, without daubing the Patient, He that desires to read more on this Head, may confult Scultetus, * who in his Ar- "Tab. 14 fig. mentarium Chirurgicum has inferted the new Instrument of the Lear- 22. ned Sanctorius.

The quantity of Water to be drawn forth, must be proportioned to the Patient's strength or weakness; but by no means don't take away too much at first; for that will debilitate the Patient, and diffipate the vivacious Spirits all at once. The Third or Fourth part is generally thought enough, and not too little. Tye the Pipe in fast with a good Bandage round the Body, and when there is no more Water left, take out the Pipe, and heal up the Wound by degrees,

with a proper Ballam and Plaister.

AKE THE

In October 1679, I had in Cure Maria Bertrams, a Burgher's Wife of Groninghem, a Mile from Halberstadt, Thirty Eight years of age, who was prodigiously swelled with a Dropsie, her lower Belly being Three yards and three quarters in circumference, and her Navel standing outwards as big as the Crown of a Hat, and yet was otherwife tolerably strong and lively. Dr. Haasenbein was joined with me, and we made no scruple of opening her the Fourth day, under the Navel towards the right Side, as may be feen in † Letter A, †Tab. 4. Egg. with the Instrument B, and Pipe C. This was done at one single gentle push: Then the Inward Cutting Instrument was drawn out, and the Pipe remained in the Wound. At that time we drew out about a Third part of the Water, and pressed double Linnen Rags and Bolfters upon the Navel, that no more Water might get into it to extend it. In the Pipe I afterward put a Spunge, which had been pres'd very close and made fit for it. Over that a piece of fost Leather and double Clothes, and over all a large (oft Bag filled with Herbs, and moistened in warm Wine, which always gave her ease in the termenting Pains of the Belly. All these things were afterwards guarded with a strong Ligature described by Monse. Fourniers. which he calls Bandage du Tronc appelle le double Rhombus, and may be found in his Book, figura 106. pag. 53. In this manner we continued drawing of Water Fourteen days together, till we had took out no less than One Hundred Twenty Eight Quarts. I kept the Orifice open Three weeks longer, and then finding the Water was totally exhausted, I healed up the Opening: And in December 1685, travelling through that Town to Breflan, I found her in very good health, and that the had never fince been troubled with any Symptom of a Dropsie. In this Patient's case methinks it was wonderful, that notwithstanding the prodigious bigness of her Belly and Navel, yet the Pudenda and Labia were in no wife tumified, and though her Legs were swelled below Knee, they were not above. The Species for the Sweet Bag were what follows.

ti itt fant gueden end it oo onteltwest bulgge I av Re Folia

and of Fourth pert

Be Fol. Veron: Malva, Ment. Crisp. Beton.
aa. Mii. Flor. Rosar. Cammomill. Sambus.
aa. Miss. Summit. Absinth. Min. Cort. Aurant.
31ss. Citri 3ss. Herb. puleg. Miss. M. scind.
grosie pro Saculo.

The Bag was made indifferent large, and every Four days a fresh one applied, which wonderfully strengthened the Patient. If any thing yet further remains, relating to this Disease, you will find that defect supplied in the next Chapter.

CHAP. VIII.

Of a particular Dropsie in the Pudenda, Scrotum and Left Thigh, its Original, and how cured; exemplified in Four remarkable Instances.

Hat the Dropsie does not always begin and take up its residence only in the Belly; but that several other particular places are afflicted with it, is confirm'd by daily experience. But whether it be as Dr. Bontekoe fays, that if the Vena Saphana be understirched with a Needle and Thread, and tyed close together to hinder the Circulation of the Blood, a Dropfie will enfue, and upon loofening it immediately vanish, I cannot affirm, having had neither time nor opportunity to make Trial of it, though it's certain that in the Dominions of the great Mogul in the Indies, there is a Province called Quantick, where the Inhabitants are commonly troubled with one thick swollen Leg, sometimes the Right, and other whiles the Left, like those that are Hydropical. Dr. Blankard gives us an Account of a young Gentlewoman who had a Dropfie in Dextra Uteri Tuba, and of Two Children who had the same Distemper on and in the Head. Blegni also gives us a relation of a Dropsie in Tuba Uteri of the Countess of Newport, which is well worth the reading. Rusch, Tulpius, Van Twull, Blegni, Blankard and several others, tell us that a Dropsie very often happens in the Uterus or Womb. Job van Meckeren acquaints us with the Hiftory of a Dropfie in the Spleen, and Dr. Decker has presented us with the figure of a very great Thigh, which the famous Schmaltzius opened, out of which came a great quantity of a faltish Lympha. To mention more Authors on the same Subject, would but give you an unnecessary trouble, and therefore I shall proceed to my own Observations.

Obfervation 1

In May 1686, Dr. Paules and my self had a Patient in Cure, a Woman who keeps a Tavern in this Town, 32 years of Age, and had a Dropsie and a large Tumor on the Pudenda and its Labia, which exceeded in magnitude the measure of a quarter of a Peck, but otherwise healthy, and six Months gone with Child. The sirst Eight days I applied several things to it, but without effect, for it

grew harder and bigger, and therefore we agreed, fince the Patient could bear it no longer, and that the passage of the Urine was quite stopp'd up, to scarifie both the Labia, which being done, in Eight hours time there came away above a Gallon of Water; at Night it ran not so fast, the next day none at all, and the Fourth day as much again as ever. Then I made something higher, Two small Incisions, through which in 48 hours all the Water ran out, the parts contracted and appeared in their natural shape and proportion. She continued Three weeks very well, but after that time the Water began to gather again, fo that I was forced to make Two new Openings. through which in Two days time all the Water found a paffage; encreased no more afterwards, and at her right time the Patient was brought to bed of a Daughter. By this example, notwithstanding all the impertinent talk against it, you may see the necessity of using Scarifications in this case, there being no reason to apprehend the danger of a Gangreen in this part, though there is in the Thighs and Legs; which may also be prevented by the use of my Lac Virginis.

In August 1693, I was sent for to a Woman, whose Husband be- Observation 2 longs to the Post-Office, who also had a Dropsie in the Pudenda, which fwelled to an extraordinary bigness. She was then about Thirty years of age, otherwise in good health; great with Child and in her Seventh Month. I had a long conference with other Chirurgions about it. for I had a mind to open it, but they would by no means confent to that Operation. At last, Dr. Tielish being sent for, and approving my opinion; after I had Two days used a Cataplasm, I opened it in the lower parts, on both fides the Labia, with a Lancer, out of which Openings, in Two days time came Two Gallons of Water; the Swelling went perfectly off in Six days time, and in all appearance the was perfectly cured. However, to prevent its returning, I used the fol-

lowing Fomentation Fourteen days together.

Be Pulv. Ceruff. Bol. alb. aa. 3i. Tutia ppt. 35. Oliban. Myrrh. aa. 3ii. Vitriol. alb. 3i. Alum. crud. 3fs. pulv. flor. Sambuc. Savine, fol. Thee aa. 3iii. coquantur cum Lixiv. fortiff. thii. Agu. flor. Sambus. fbv. continuò agitand. f. Epithema s. a. & 2 Podende regioni tepide imponatur.

This also seemed to have effect, the part look'd well and continued so a Month, but then returned again, and the Patient was worse than ever, therefore I opened it again, and in Four Days time the Water was wholly evacuated; but contrary to all our opinions, after Twelve days it returned as before, which I again let out by Four Incisions, for now the Water was more divided, viscous and not fo clear as formerly. Upon this Operation the continued free about Three weeks, and in that time was brought to bed of a Son who lived but Two days. Two years after this Woman being with Child again, and in her Eighth Month, was seized with a Dropsie in the same parts as formerly, which I let out by Two Incisions, and then she continued well, and was lafely delivered of a still-born Daughter.

In April 1694. Dr. Regius and my felf had a Patient a Clothier near Observation; Bockoyes-

Bockoyes-Hoff, 28 Years of Age, who was Marryed but half a Year before. His Penis or Yard was swelled with Water to such an Extraordinary bigness, that it grew Crooked; the Franulum was also swollen like a Cordee in a Virulent Gonorrhaa, and the Patient would not be perswaded but his Wife had Bewitch'd him. As first he made Water very well, but at length it was exceeding painful to him. The Scrotum was not swelled in the least, which seemed to me very wonderful. After more than a Fortnight, when we faw that Cataplaims and other Medicines would not prevail, I made an Incision forward in the Preputium, from whence the same Day came forth above a Pint of Water. and the fwelling of the Penis was much abated; but because it ceased to run the Second Day, I scarified the Praputium in another Place, and on the Third Day in another, which quite emptied the part, infomuch that on the Seventh Day every thing was reduced to its natural proportion. Thus he continued three Weeks together, and as it may be gueffed made use of his Young Wife as formerly; whereupon the swelling returned as before, and to add to his Affliction, he was again tormented with the apprehension that his Wife had bewitched him. and would not be perswaded to the contrary, by all the Arguments we could use against so Foolish an Opinion. Dr. Regins and my self being fent for again, we made as before an Incilion on the fide of the preputium, out of which came a little Water, but not the Fourth part fo much as in the first Operation, for this reason we repeated the Incision a times on the other fide, but with little benefit; for but little Water came away, and the Yard continued as much tumified as ever. In fine, we did all that was possible to be done in such a Case; but the Patient growing Lean and very Feeble, and being so much tormented with Pain that he could not Sleep, he was feized with a violent Cramp and Convulsions, and after enduring Four or Five Fits of an Epilepis, he Dyed : Which was Three Weeks after we were fent for the Second Time. He Dyed in the Morning and in the Afternoon I diffected the Penis in the Presence of the Doctor and several other Persons, and found in it a full Quart of coagulated Lympha resembling Jelly, which we emptied, and putting a little of it into a Spoon and holding it over a Candle, it grew Thin and Fluxile. I have inferted this Example for no other reason, but to Convince the Operator, that in cases of Necessity the Praputium may be scarified without Danger, provided you do not hurt or so much as Touch the Franulum.

Observation 4

In February 1691. Anna Mullers a Taylors Wife living in a Town called Zobten, 39 Years of Age, was brought to me to be cured, whose Thigh in Fourteen Weeks was Grown so Monstrous big, that a little above the Knee it was a Yard and Half in Circumference, and a little higher above Two Yards about. Dr. Tielisch was also consulted. She complained of no great Pain but only near the Knee and in her Groins. The Thigh was very hard, but of the same colour with the rest of the Skin: Very much swelled towards the Knee and yet what was very strange, the Knee was not swelled at all, and she could bend it as she pleased. The hardness of the Thigh and because it would not Pitts when compress'd with our Thumbs, made us of Opinion there was no Water in it, but that it was caused by a Gelatinous and Mucilaginous Matter which lay very deep under the Skin, and therefore we agreed for the First Eight Days, to apply the following Plaster to it.

B. Emplastr. Diaphoret. Mynsic. cum pic. 3vi. Nigr. Roder. a Caftro, Biifs. Carminat. Silv. 311. Sulphur. citr. 31fs. Mastich. Succin. aa. 31. Tartar. puwiss. 311. Gum. Galban. Bdellii, Ammon. depur. aa. 31. Gera 3x. Ol. Cort. betul. Tartar. fetid. laterin. aa. 9. s. M. f. ad Empl. f.

This admirable resolving Plaster, the Excellent in these Diseases, and made the Thigh Sweat, and so soft that you might have made Dents in it with your Thumb, yet it was not powerful enough to Conquer the Malady. The Doctor also gave her internal Medicines, and a Cask was made purposely for her to put her Leg in, under which was Burnt Spirit of Wine but without Effect. Hereupon it was refolved to lay a Corrofive of a Hands Breadth upon it made of Silver and Aqua Fortis, which did its Business in Two Hours Time, and Four Days after the Eschar being separated, as I was dressing it, all of a sudden, a nasty Reddish Water Gush'd out with such Violence from the opening, that its Stream reached above Two Yards from the Wound. I quickly made the Orifice wider, because it was very small, and putting a Pipe into it and a Bason under it, let out above. Two Quarts of Water, and the next Morning though the Rags that lay upon it were very Wet, yet I took away above Three Quarts more of fuch Nasty Filthy Stuff, and sometimes Lumps of Blood and Filaments came away with the rest. All this time the Patient complained of no Pain, only she was very Faint and Weak especially at dreffing time. In the Evening we continued the same Course, upon which the Thigh began to grow less especially in the upper part of it. The Third Day in the Morning we drew out Two Quarts and in the Evening one, which in the whole was Thirteen Quarts. Then I observed that the Water grew Thicker and more Viscous; bigger Clods of Blood and Filaments came away, the swelling abated every Day, and the Water diminish'd in its Quantity; for in Twelve Days I had taken out Five Gallons and a half of Water, and fuch like Filthy Stuff out of the Thigh, which was certainly very Strange and Wonderful to confider. This emptying the Thigh at fuch a Rate, rendred the Patient very Weak, infomuch that she could, hardly move that Leg and Thigh at all, which now look'd like a Leather Bag, whereupon Strengthning Cordials were given her to affift Nature that she might more cheerfully undergo her Trouble. From the Thirteenth to the Nineteenth Day went off Nine Quarts, and from the Nineteenth to the Twenty Third, Three Quarts more, in all Eight Gallons and a Half. And then having been Twelve Weeks under our Hands, the was perfectly cured to the Admiration of all Men: Only for some time she Limpt a Little on that Leg, and the extended Skin being Shrunk together was a very uncomely Sight. I have inferted the Figure of this monstrous large Thigh for the Readers more entire Satisfaction. vid. Tabul. 4. Figur. 5.

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CHAP. IX.

Of the Stone in the Bladder, from whence it proceeds, and how to Cut it out?

Ithotomia, or cutting a Stone out of the Bladder, is one of the Principal and most Artificial Operations in the whole practice of Chirurgery: And if the Chirurgion has a Steady, Light and an Active Hand and fine tender Fingers, with well made Inftruments, and a Solid Judgment and Experience, he will find Occasion to Employ them all in this Operation: Especially in searching, whether the Stone is Great or Small, many or but one! Whether it is Round, Angular or Oval; for without a certain Knowledg of all these Particulars, you cannot perform it lo Artificially as is requifite; therefore before you attempt it, Observe the following Diagnosticks. Ob the Diagnosticks.

Diagnosticks of a Stone in the Bladder.

To know whether a Patient has the Stone or not, is attended with so much Difficulty, that it requires more than ordinary Prudence and Circumspection, because some that are afflicted with the Stone in the Bladder, yet feel no Pain, nor is there any appearance of Sand or Gravel in the Uring the reason whereof is, that the Stone is of a very hard Substance & not of such a form as can obstruct or stop up the Neck of the Bladder. But the greatest part of Mankind that are troubled with the Stone, their Urin is Thick, Muddy, Slimy, and often intermixed with Blood and Gravel which causes great Pain by making the Neck of the Bladder, and the Meatus Urinarius Raw and fore by its hafty Paffage. Others, have the Stone, and shew it by voiding of abundance of small Stones of all Shapes and Sizes, and yet are not much concern'd at it, because their Pain is but little and seldom happens: As it was with Bawon Van Horst Lieutenant Colonel of the Hannover Troops, who travelling through this City in the Year 1687. shewed me a great Box full of Angular, Oval and Round Stones which came from him in Six Weeks Time, the largest whereof was about the bigness of a great Pea, and yet he felt no confiderable Pain in voiding them; but to do him Justice he ascribed that happiness to his taking the following Powder, which he highly commended, and I have experienc'd on feveral Occations in the case before us.

Be Nucl. Dactilor. raspat. 311. Pulv. rad. Bryon. Angelic. as. 31/s. Sem. Violar. 31. Misce f. Pulv. Subtilissimus, Dosis 35s ad Dii vel zi.

I was unwilling to conceal the prescription of this Powder, for the Sake of those that are afflicted with this Terrible Distemper, because I know it's scarce to be equalized by any other Medicine, for its Vertues in expelling Sand or Gravel. But to return to the Matter in Hand. If your Patient early in the Morning, or after long fitting still and rifing haftily, feels something heavy falling down upon the Neck of the Bladder, 'tis a certain fign he has the Stone. If the Stone grows very faft, you may know it by a great Quantity of slime and sand coming away

with the Urin. A great many more figns there are of knowing when there is a Stone in the Bladder, which you may find in Dr. Selengen * part 2. c. 10 and Franciscus Toletus*, but fince the best of them will be too apt to P. 252.

mislead you, proceed a Surer way in this Manner.

Put the Two foremost Fingers of your Left Hand into the Patients of fearching for a Stone. Fundament, as far as you can reach and the Patient Suffer; then bend the Two upper Joints of your Fingers upwards towards the Reffum. and you may both feel the Stone and be able to Judge of its bigness but if your Fingers are too short, you must take the Instrument called Catheter Flexitis, which is full of Joints, and put it into the Yard and fo into the Bladder, where you will foon find the Stone, and know it is a stone by the noise it makes, when you hit the Instrument against it ; and this way of fearching is counted the best and most certain, by all Ingenious Lithotomists. In Women it is otherwise, and other kind of Instruments must be employed; for which see Mr. Tolet, * tho the 'Tab. 3 Fingers are as useful in this as the other Sex; and for the generality the Fig. 5. & 6.

most certain Inquisiters.

In discouring concerning the Causes of the Stone, and how it's ge- Opinions of nerated in the Bladder, It shall proceed in my former Method, and first the Ancients give you the Opinions of the Ancient, and then of our Modern Writers, that you may fee how they differ in their Opinions, and who gives the most substantial Reasons for them. Paraus says " the Stone in the Chirurgia L. Bladder was first gradually by Degrees bred in the Kidneys and afterward 17. c. 30. p. forced through the Ureters into the Bladder. They proceed from Grofs, 393. Tough and Viscid Humors occasioned by immoderate Exercise after eating; which matter fetling in the Kidneys; by their immoderate Hear, the thinner part is thrown off, and the Groffer and more Earthy parts Sublide, and harden into a Stone as Bricks are hardened by the Sun and Fire. Johann. Andreas de Cruce + fays it was produced out of + Chirurgia 1. a Phlegmatick crass and tough Matter, or from Pus or coagulated Blood, 5. C 54 P 927. and that is the reason that Stones growing in the Kidneys are Red and these in the Bladder Ash-colour, Fabricius Hildanus is of Opinion † that + C. 1. & 2. the Stone in the Bladder was caused by an unnatural, Crass, Viscid and P. 927. & feq. Earthy Slime, united in the bladder, and by immoderate Heat Baked into a Stone. Cardilucius † fays the causes of Stones in the Bladder, were + tom. 1. c. first an Innate Disposition and natural Inclination to breed Stones; and 96. p. 878. next by feeding excessively on hard and viscous Aliments, as cheese, Pork, Bacon, Beans, Peas, and Fish, and drinking Ale or Beer not fufficiently boyled, or other Liquors which are not Fine and Clear, as New Wines, especially such as grew on Limy, Chalky Ground, all which thingsing indred slime which hardened into Sand and then into Stones. Dr. Johann. Agricola + affigns the Caufe of Stones to a Tough, + pag. 118. Crais and Earthy Slime which gathered in the Kidneys, the thinner part of which pass'd away, and the Sediment being a true Tartarous Salt turn'd into small Sand and Gravel, and at length coagulated into Stones, and by the force of the Urin were driven into the Bladder through the Wreters; and there contracting more Slimy terrene Matter increased in Magnitude, this is almost the same Opinion with Sennertus & Hor-

Among our modern Authors, Francis Toletus * is of opinion, that Opinions of Stones were ingender'd in the Kidneys as well as the Bladder, and Modern Authat from a Terrene matter, which where ever it fettled became like thors.

parts of the

Chicucgia L

Lime; being generated from Food which contained fuch like particles; for Slime of it felf cannot indurate to fuch a degree as to produce a Stone, but being joined with Limy particles or other Terrene Subflances, which too commonly accompany our Meat and Drink, they feldom fail to do it. Blanckardus affirms, that they were caused by a Viscous Salt, which first obstructing the Glands of the Kidneys, settled there, and christalized into Sand, which in time converted into Stones, and passed with the Urine into the Bladder, where gathering the same kind of matter, they increased in bigness, till they could not force their way through the Yard. Omitting other Authors, I shall conclude this Head, by faying, that if but one grain or particle of Sand come into the Bladder, it lays a Foundation for a great Stone, by lurking in one corner or other of the Bladder, which being augmented by a Viscous and Tartarous humour, grows more compact, bigger and harder. Nor does it only effect this upon sand or fuch like matter, but as I and feveral others have often observed upon Bullets, Needles, Grape-feeds, [mall pieces of Bones, Cherry-stones, &c. if they chanced to come into the Bladder, for a Tartarous matter gathering about them, they ingendred into Stones of a vast magnitude. As for example, Toletus cut a large Stone out of a Soldier, which had a Thorn tyed to a firing in the middle of it, which is very firange to think how it should come into the Bladder. Fabricius Hildanus cut out a Stone in the middle of which was a Leaden Bullet. Another in which was found a Needle: And one as big as a Hen-Egg, at the end of which grew the Stalk of a Pear. Experience also teaches that Stones are found in sevein many other ral other places of the Body. Monfieur Kellerin the famous Lithotomift at Havre de Grace, cut Stones out of a Man's Shoulder that were overgrown with Hair; Dolans found Stones in the Eye-lids, and Blegni in the Glandula Lachrymalis. Tolet cut Three Stones out of the Scrotum, and one as big as a Wall-nut out of the Almonds behind the Tongue. Paraus took a Stone out of the Knee, and another out of the Intestinum Rectum. Hippocrates out of the Neck of the Womb. Muraltus found a Stone in the Stomach, and another in the Gall-bladder. Benivenius had a Patient who threw up abundance of Stones in Coughing. Bontekee found 28 Stones in a Womans Liver, and 38 in the Spleen. Mollerius found a Stone in the substance of the Heart. Munnick found Five Stones in the Right Lobe of the Lungs, and Beverwick as many in the Left. Tulpius and Job Van Meckeren found Stones in the Brain, Nerves, Pancreas, and in the carnous part of the Diaphragma. Bartbolinus mentioneth a Child of Seven years old, whole Sweat sticking in Drops upon the Bed-clothes, immediately became Stones. Graffeteau gives us a relation of a Girl whose Tears presently became stony. Blegni names Two feveral Persons whose Urine after it had stood about an hour became a hard Stone. Sennertus found Stones in the Navel and under the Tongue. Mr. Gunther a Chirurgion in this Town, in a dangerous accident in the Lower Belly near the Navel, drew from a Gentlewoman in my presence, Twenty Stones of a large size, one of which I have yet to shew. In an Imposthume of the Navel in a Leather seller's Wife of this Town, I lately took out Two Stones, one Triangular, the other Quadrangular. Mr. Haghs a Chirurgion in this Town, took out of a Fungous Excrescence in a Baker's Knee, Thirteen Stones; not to mention many other examples. and w dander comment a I now

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I now proceed to the Operation, which is attended with fo many dangers, that the Chirurgion must make special use of his Eyes and Understanding to prevent them; which that he may do, and perform the Operation a Cure worthy himself and the Art, let him consult his own Reason and Judgment, with the following Admonitions. If the Stone is very large, angular, and perhaps grown to some part or other of the Bladder, and the Patient is very Young, Weak and Sickly, you cannot prognosticate a good issue. If the Stone is bigger than a Hen-Egg, there is great danger in getting of it out, because the Opening in the Neck of the Bladder must be made very Wide, which will be very difficult to heal, though the Patient is very healthy, so many ill accidents attend it. If your Patient has a Ptifick, is Consumptive, or any of the Principal parts of the Body are Indisposed, he seldom recovers it, tho' the Operator performs his part with all the Dexterity and Judgment imaginable, Such Patients as are Hydropical, or are troubled with the Tellew Faundice or Falling fickness, very feldom undergo this Operation without danger of Death. Many Lithotomists will not undertake Children, unless they are above Ten years of Age, imagining they were too weak and tender to endure it; but I am not of their opinion; for if the Child is firong and healthy, and the Stone not too large, it may finceed very well, as I have often found in my practice, and experienced in my own person; for I was cut of the Stone when I was but a year old, by the famous Lithotomist Petzold of the City of Luben: Which Stone is about the fize of a great Bean.

by the Advice of a Phylician. Then chuse the Morning as the fittest time of the day to do it in; and having Two hours before given him a gentle Clyffer; lay him unclothed upon a firm Table towards the Light, with Pillows under his Back and Loins. Tye his Arms ftrait down, after you have put his Heels and Legs backwards up to his Buttocks, spread a little from one another. In this Posture, tye all firm together, round the Legs, Arms and Body, that the Patient may not be able to move his Hands or Feet. Lay Cushion enough under him, and place fame body to be ready to hold him if there should be occasion. But if the Patient is front and couragious, you may only cause him to be held, and omit the other formalities; for fo I have twice performed In Children you must employ a lusty strong Man, fer him upon a high Seat and let him take the Child in his Lap, in the same Posture as above described, and tye the Child as you think Convenient. If a Momanis to be Cut, place her in the fame manner as is prescribed for Men, if you would perform it with certainty: Sometimes I know it is done in a great Chair, where the Operator must kneel to do it. Hil-

comply with his necessity. The first Intention is to prepare his Body

danus * fays he has cut a Woman in fuch a Chair, only with one Section . Cap. 14. in Vagina Vylva, with to much Privacy, that her Nakedness was not discovered, either to himself, or any of the Women that were near ber 3 and brought away a very large Stone . This is a rare piece of Art

indeed! And they that have Faith enough may believe it; but I cannote: Having your Lallruments and all other necessaries injorder before you, give your Patient adraught of a good Cordial, to cheer and keep up his Spirits, and then proceed to the Operations of which I will

The Spring of the Year is the fittest time for this Operation; but if First part of your Patient is in too great Torture to wait for that Scalon, you must the Operation.

there is a great difference in performing it. The first is the Method prescribed by the samous Petrus Franciscus, and is mightily commended by Hildanus. The other is a shorter Method, and performed with sewer Instruments, and therefore I have often used it with success.

Petrus Francis-

Put your Itinerarium into the Urinary Passage upon the Stone, and bend its upper end towards the Belly, that the Perinaum may be extended and dilated by the hollow part of the Itinerarium; then make an Incision with a Knise or Lancet made for the purpose in the Left Side near the Seam or Perinaum, as large as you think the Stone requireth. Then put the Two Forefingers of your Left hand being well oyled into the Patients Fundament, and thrust the Stone forward towards the Wound, till you have brought it into the Neck of the Bladder, and can take hold of it with the Hamulus or Duck's Bill, and take it out. Sometimes Mr. Franciscus puts only a good Tent into the Wound to bring it to Suppuration, and continued this Tenting till the Stone came to the Wound, and then he fays he could take it out with eafe. But if he could take hold of the Stone presently after the Operation, he took it out with the Forceps, and if the Stone was larger than the Opening, he dilated the Wound with a Speculum. But if the Stone was too large for the Wound, he broke it in pieces in the Bladder, and brought out every day a piece, till he had took out the whole. But I cannot commend this part of the Operation, because it cruelly tortures the Patient; and do think he should either make the Orifice wide enough, or take out the pieces one after another, for neither the Wound nor the Cure will permit fuch a tedious and tormenting method; because the Patient will faint away, and grow very feeble in being so harshly trea-The other method follows.

After the Patient is placed and tyed as above directed. Put your Two Fingers into his Fundament and force the Stone into the Neck of the Bladder 5 then with your Knife or Lancet make an Incilion on the Left fide of the Perinaum a Thumb's breadth, between the Scrotum and the Fundament through all the Flesh right upon the Stone, and having made this passage, put in your Forceps, and if it lies near enough draw out the Stone; if not, you must help what you can with your Fingers in the Fundament; for the Stone cannot lie far from the Wound, because its weight leads it to the Neck of the Bladder, unless it grows to the Bladder, which very feldom happens 3 for then it must be separated with a proper Instrument, before it can be drawn out. there be more Stones than one, take care you leave none behind in the Bladder, but take them gently out one after another. This method is called Apparatus minor, because it is much easier and quicker than the former, and does not employ fo many Infruments; and though fome appropriate this way only to Children, yet I have used it often and with fuccels in older Persons also, and therefore give it the Preference. For what occasion is there to employ all those Itineraria, Conductores, Specula, Semi-Specula, and fo many kinds of Forceps, Hamuli and a multitude of Catheters, when the work may be better perform'd without them. A good Incilion-knife, Forceps and Spoon, are Instruments enough, if the Chirurgion is expert and active, and if he is not, a great number of Instruments are infignificant, and and a moy sar

In Women this Section is not made between the Fundament and Val-

gravid. Mu-

va, but in the Vulva it felf. The Fingers must also be put up the Fundament, and the Stone pressed downwards as low as possible, while with your Right hand you ftroke down the lower Belly to the Fudenda. Then take a hollow Catherer, and thrust it up into the Neck of the Bladder, and make your Incision proportionable to the bigness of the Stone, in what place you judge most convenient : Or if the Stone is not very large, you may dilate the Urinary paffage with a Dilatorium, and fo take out the Stone; but take care you do not extend it too far; because I have known that such an Error has rendred the Wound incu-

When the Stone is taken out and the Wound is large, some give it Two or Three stitches to draw the Lips together; but I cannot advise it, for if I faw it requisite to draw the Lips closer together, I always put the following, Powder into the Wound, and applied Felix Wartzens Plaister, and all things succeeded well.

R Rad. Consolid. major. 3i. Tragacanth. pur. Sarcocol. aa. 3vi. Tutia ppt. 3/s. Cort. Over. ppt. 3iii. Ocul. Caner. ppt. 3ii. Terr. Sigillat. Bol, Armen, aa. Bilfs. Mifce fiat ad fubtil. w doid W colla

Once more I thought fit to admonish you not to use any Greasie Una chous Medicines in this case; but only apply the Appodeldoch Plaister

to it, and heal it up like other Wounds in the Flesh.

Mary 1

In May 1672, I had in Cure a Patient at Minder on the Wefer named Hans Paucifen, 38 years of age, by Trade a Joiner, who had a very large Stone in the Bladder, and the Urinary Passage was so narrow, efpecially towards the end of the Yard, that it was impossible to enter it with the smallest Catheter. He endured a great deal of pain, and was continually on the wrack; and several Physicians and Chirurgions had given him but little hopes of a Cure by Cutting. When I first faw the Patient, I thought I should have been more lucky than others, in fearthing for it; but I flattered my felf, for I could not enter it by any means I could use, no, not with a Wyre. Under this disappointment I made use of my Fingers, and found a very large Stone in the Bladder. The Patient heard it with abundance of Joy, and next day at his request I sent for Two Phylicians and Two Chirurgions, and before them and his Relations, declared my opinion how I defigned to proceed in order to take out the Stone; which being agreed to, I performed the Operation next morning, exactly according to the method prescribed in the Apparatus Minor. The Patient underwent it with Courage, and complained but little, when I took out a great Stone that weighed almost Ten Ounces. The Stone was very rough on the outside, and when I broke it to pieces, was so curiously streaked with Red and White inwardly, that it was wonderful to behold; belides, in some parts it was as iplendid and thining, as if it had been intermixed with Sparks of Diamonds. Soon after the Operation, the Patient was freed from his excruciating Pains and Tortures, and in Six weeks time was the aurealus revus. Three or Four Pingers breadth from the Navel

sairlagger alares bared or so abit wowobined of on a nob CHAP.

nor

dament, and the Scone prefied downwards as low as possible, while with your Right hand youXrok Po An He Dwer Belly to the Fadenda, Then take a hollow Catherer, and thrush it up into the Neck of the

but in the Water it felf. The Fingers must also be put up the Fue-

Partus Calarens, what the Operation is, and how performed? you may dilate the Urinary paffage with a Dilaterium, and

HE Greeks call this Artificial but dangerous Operation, Hyllerotematocia; because it's performed in the Lower Belly of a Woman with Child, to fave if it's possible, both the Mother and the Infant; or if the Mother is dead, to preferve the Child alive; for fo Providence is sometimes pleased to order it : As it happened to my felf in a Corporal's Wife at Offerwick, where the Woman was dead ; but the Operation being performed foun after the departed, I faved the Child alive, who is now grown to Man's Effare. But I was not lo happy in the Year 1690, when I opened a Gentlewoman of this place, in the presence of Dr. Brensfe, Chirurgion Negsern and Mrs. Meyers a Midwife, after she had been dead above Three hours, and yet I brought forth a Daughter who breathed Three of Four times, and then died also: Which was catiled only by their neglect in lending no sooner for me, for had I come but one hour before, certainly by Ged's affiftance the Child might have been preserved alive. But to proceed in an orderly method, I will treat of the Partus Cafareus, where the Woman and Child are both alive, which has been fuccelsfully performed in many Instances, contrary to the Opinions of Several Writers.

The Ancient Physicians and Chirurgions knew little or nothing of this Operation, and confequently thought it impracticable. Dr. Manriseau was to extreamly prejudiced against it, that he calls it a barbarous, inhumane and deteftable Practice. * Pareus was allo of the fame opinion, faying, no skilful Chirurgion would attempt it, nor could any Woman furvive it. But later Authors think it both pollible and practicable, and that it may be performed to the prefer vation both of Mother and Child, and prevention of many dreadful and melancholy Stories, that continually violate our Ears on that deplorable Subject.

Blanckardus commends the Operation, and fays it is a great piece of

Cruelty to fuffer both Mother and Child to perill together for want of

it. Bankings the famous Professor at Bazil, has given us the History of a Woman that fuffer'd this Operation, and by it was delivered of Two Children at the fame time, and lived to bear Four Sons afterwards. In order therefore to perform it differently and fafely, before you at tempt it, give your Patient a Clyfter, and supply her with good Cordials to keep up her Spirits, and now and then a Glais of Generous Wine. Then having all things in readinels, and a very good Light, place your Pafrem on a Bed where you may go round it : Tye her Legs, Thighs and Arms to the Bed, that the may not be able to hinder you in the Operation. Under her Back and Thighs put Cultion and Pillows to raile her as high as you think convenient. Then uncover the Lower Belly, and mark the place with link where you intend to make the Section, which must be either on the right or left side the Navel, directly upon the Mujculus rectus, Three or Four Fingers breadth from the Navel, and not above Five fingers long. Make your beginning to exactly, that you don't go fo far downwards as to hurt the Vafa Hypogastrica ;

" Traft. de gravid. Mulier. c. 33.

nor to high upwards as to injure the Diaphragma; but keep directly in the middle, without fearing to hurt the Liver on the Right fide, or the spleen on the Left; for you cannot fo eafily come at them, as some Persons pretend, who make a great stir about them, but to no purpose: When you have drawn your Mark or Line measured by your Eye, make an Incision with your Knife as long as the Line, and then you will see the Musculs Rectus under the Skin, and how to proceed with the Incision to the Peritonaum, and through that also, where you will see the Uterus, which you must also cut through a little, and afterward proceed farther. In doing this, you must make use of an Incision-knife which has a small Button on the point, that you may not hurt the Child with it: And make your Incision with all the celerity imaginable, for much depends upon it. When all this is done, take out the Child and secundene, and give it to the Midwife; with Spunges and warm Water make all parts very clean, and leave none of the Blood or Moisture inwardly, which ran thither in the Operation. The Wounds in the Uterus fiest moiften with a Lavamentum; then strew my Pulvis ad Saturas upon them as thick as you think convenient, and do nothing else to them, for her breathing will contract them, without the help of Sutures or Stitches; but the Wounds in the Belly must be stitched together with fo many Needles and the Silk turn'd round them, as you shall find it necessary; yet so as to leave a hole below for a Tent, to evacuate the Blood and Matter, if any should have staid behind. there is lodged in the Uterus a great quantity of filth, it would be convenient to inject a good drying Liquor into it, or keep the Orifice in the Matrix open with a small Pipe, that the Corruption may have a free passage through it. As for the rest, treat them as we have already prescribed in Wounds of the Breast and Lower Belly.

good to be a significant of Tumors bappening in the Bodies of Mankind, and commend blow they are to be distinguished and cured. I want have to acceed affine matter out of the Bog. Othe

A LL Tumors differ one from another, either in the matter they Difference of Contain, or in the place where they take up their residence. Tumors.

Those Tumors that contain a Viscous Matter like Pap are called Atheromata: If the Matter is thicker refembling Tallow, they are called steatomata: If of the consistence of Honey, they are called Melicerides; and if they contain a mixture of all these several forts of Matter, they are truly called Fungi, because they grow upon the Bodies of Men, ike Spungy Excrescences upon Trees.

The Antients were of opinion, that these Tumors were caused by a TheCauses of Superfluity of Phlegmatick and Viscous humors, generated by overloading the Stomach with Food, which gave too great a Nourishment to the Body, the Excess whereof produced Tumors. But the laborious and learned Dr. Overkamp says, * that a Tumor is an extended and dila- * Chirurgia ted Vas Chili; for the Skin in which this vicious Matter is enclosed, is 1.1. c. 10. nothing elle but an extended Veilel or Channel, through which the

Tingo.

Sheens Nutritus ought to pafs, but being stagnated, caused such a Tumor? And such a Dilatation fays he, you may find in the Veins, Arteries and Lymphatick Vellels, as the Varix, Aneurifma and Hydatides. This Extension and Dilatation he fays may be caused Four ways. First it may proceed from an obstructed Gland, which being oppress'd by the fwelling of the Veffels near it, hinders the paffage of its Juices. Secondly, From the Skin of a Channel or Veffel being a little torn of broken, from whence the Blood or what elfe it contains iffues out. Thirdly, from a Fall or a Blow, by which the Veffels are fo bruifed, that the Juices cannot have a free passage through them. Fourthly, from an Extension of the Veffels, where the Liquors fall into it as into a Bag; for the' the thinner part may proceed farther, and circulate with the other Liquors; yet the Chylus or Craffer part of them flays behind, and by its further encrease produceth such a Tumor.

The Cure.

The Cure of these Tumors depends only upon Exection and Excorintion, unless it be such a one, as by its scituation might endanger fome Principal Member by Incition, and then all forts of proper Medieines are effayed. If a Tumor is small and fost, I commonly give it Three or Four good Blows with a Wooden Hammer, and the Bag being broken, the humor may eafily be dispersed afterward, by the following that find it necessary; yet in as to leave a hole below for a Tent, to

Il builled R Emplastr. de Ranis cum Mercur. Vigon. a en entuente noc ed blue Diaphor. c. Pice M. Scrophular. a. Fiii. ni begbol a siedt ni erflind et Sem. Cumin. Ziifs. Lactue, Shiphur. aa. Ficial of meiney van van Ol. Laterin. 3i. Gum. Ammon. Baellii da. 190 virtad odis van van Sii. Flor. Sal. Armon. 3/s. pulv. Calc. viv. 3ifs. fiat t. f. g. Cere & terebinth. W ni bodiroborg ad Empl. form.

This Plaister being an admirable Resolvent, has been very serviceable to me on leveral occasions; but if the Tumor is large and of long continuance, take hold of it between your Two Fore fingers, make an Incilion into the Skin, and excoriate the Bag and enclosed humor together; which I have often done with very little trouble, and fometimes have squeezed all the matter out of the Bag. Others have been brought to Suppuration, after they were cut open, and then easily cured, if they are very large, they must be so carefully excoriated, that nothing remains; for if there should be any reliques, they will certainly grow again. Some of them grow like a Pear upon a stalk, which if artificially constringed, will mortifie and fall away of their own accord, but if they have great Roots, they must be wasted by Corrolives.

Difference of

Observation.

TheCauses of

Fig. 6.

* Chirurgh

In the Month of June, 1693, a Person was brought to me who be-longed to the Retinue of Baron von Kittlitz in Glogan, who had on his Thigh near the Breech, a very large Swelling of Fifteen years francing; tion of it may be seen in the Fourth * Table. The figure and scitua-wise healthy; only that side of his Podex. Thigh and Leg was very much walted. I began the Operation by tying a silk firing Two or Three times round the upper end of it. Then I laid the Patient over a great Chair, tying him fast to it; and ordered Two of my Servants to wrap the Swelling in Napkins, and pull it towards them from the Thigh.

Liernia Venc-

Thigh. Then with my crooked Incision Knife I made Two Curs quite round it, and fer my felf to Work on one fide of and, Me. Hehn on the other, and in Five Minutes time excoriated it to the Bottom. There were feveral Arteries and Veins in our way, but we could not regard them, for the Tumor being of fuch a valt bigness we were for ced to cut through them all. The Subfrance which was wafted in curting this Tumor weighed Eighteen Pounds and Three Quarters, III The Blood was foon stanched by my Aftringent Powder, excepting one fingle branch of the Arteria Muscula, which I was forced to Touch Twice with a Hot Iron, and then that ceased alfo. To conclude, the Patient was fully cured in Eight Weeks Time, and the Atrophia or walting was refelved by the use of the following Spirit and the Balfam, it but may be easily put up again ; but if the Membrage is I orn, it requires

B. Lumbricor. comp. Nervin. Mynfic. radiois 1 to lesb tasto a Cir ocele cannot. Samb. au Bii. Spirit. Milleped? for. Samb. tonnes election eworg comis Rovifmar an Sife. Spirit. rad. Angelie, Billing ont to nother -nold . spirit. c. Atroph. Schrod. 3ii. Agu. Atrophitiono sent gid ol give In ronn Dolei Bir. Balfam. Peruvian. Bifs. Vulner! ni voinvol meil whose seminal Vesless, riveni rutab. tra. sasimes of intermed seller, that they were forced to Break and Tear and sell into the Serature. If it

The Patients Thigh was very well chafed with this Mixture Twice every Morning, first at Seven and the Second time at Ninea Clock a List Sint of the Evening the following Ballam was used in the fame mail feminal Vellels are to tender that they will not allow any kind of the road of

the Scretman after wards I im methors. Contr. Atrophiam mei, I shaw after sunters aft cut out the extended Tahlu SayM. mivrey. Mala ive needless torturing his Patient; for ablo if maivery shift as inhamelow a Putterfaction of the Telticles, of whistrappy missure. Mermia Veneris the Anti-Tutansolim is \$3.50. as frontiday is not a true one; but a Tumor, Inflammation, or induration of the flag icles, cauled either by an impure Copulation or the roo hafty stopping a Generales.

Attend these Applications with great Diligence, and you will find Ball, or a bilatation of the Internal Veilels of the i efficies. Ball, or a bilatation of the internal Veilels of the includes And included the internal veilels of the internal veilels of the internal veilels. I will accommodate you with the Prescription of two Cataplasms, which if regularly applyed will

perfectly cure the Accident progleAth Hnoethy lubitance is ferried with it; for then it can hever be cared but by cutting away the whole

Hernia or Ruptures, their Differences, Symptoms cause and Cure,

B. Pulv. herb. Verbale. Hyoley.m Rupture at first is nothing else but a Boyl in the Groins, and commonly on the Right Side, because the right Foot is always fee foremost and is oftner in Motion than the left. This Boyl or Tumor growing bigger by Degrees fettles down into the serotum or Cods, and then is only an Extension of the Periconaum, but afterwards tears it in Pieces, for the Patient neglecting to wear a Bandage or Truls upon it, the Intestina, Ulium and Colon and at last the Omentum or Kall fall into the Cod, and there make a perfect Rupture, and their are the Ruptures that we fo frequently meet with. Befides this kind there are Watry, Windy, Nervous, Carnous, and Seminal Ruptures and also of the Navel,

Navel, Womb and Cods, of all which we will treat in order.

Hernia are Ruptures which Women as well as Men are Subject to, especially when big with Child and in hard labour, tho they are not so often afflicted with them as Men; because the Two perforations in the Peritoneum, through which the Processes pass to the Testicles in the Scrotum, is more apt to cause a Rupture than in Women. The Intessina, Ilion and Golon don't always fall into the Scrotum by tearing or breaking the Peritonæum; but the Holes of that Membrane, or the Membrane it self may happen to be so dilated and extended, as to fall down into the Scrotum and incline one to think it was broken. This I confess very rarely happens, but since it does sometimes, a Chirurgion should diligently enquire into it, for if the Peritonæum is not broken it may be easily put up again; but if the Membrane is Torn, it requires a great deal of Pains to put it up again.

Cirsocle cannot truly be called a Rupture, but is rather a great extension of the Seminal Vessels in the Scrotum, which sometimes grows so big that one would think the Patient had Three Tessicles. Monfieur Fournier in his Oeconomia Chirurgica Speaks of a Turner in Paris, whose seminal Vessels were so interwoven and twisted together, that they were forced to Break and Tear and so fell into the Scrotum. If it comes in this manner, then it may be truly called Cirsocle or Hernia scrotic. These Ruptures or Extensions are generally incurable, because the Artist cannot reach them, Medicines signify nothing, and the seminal Vessels are so tender that they will not allow any kind of Mannual Operations. 'Tis true, Monsieur Blegni did make an Opening in the Scrotum; afterwards Twice constringed the Seminal Vessels and then cut out the extended part; but what was all this, but a needless torturing his Patient; for above arose a great Tumor, and below a Putre-

faction of the Testicles, of which at length he Dyed.

Hernia Vene-

Hernia Veneris the Antients also called a Rupture, but is not a true one; but a Tumor, Inflammation, or Induration of the Testicles, caused either by an impure Copulation or the too hasty stopping a Gonorrhea or Running of the Reins. These Patients suffer abundance of Pain and for the most part keep their Beds. Blanckard calls this Dilease Venus's Ball, or a Dilatation of the Internal Vessels of the Testicles: And since they are generally thought to be curable, I will accommodate you with the Prescription of two Cataplasms, which is regularly applyed will perfectly cure the Accident, provided that no fleshy substance is settled with it; for then it can never be cured but by cutting away the whole Testicle.

B. Pulv. herb. Verbasc. Hyoscyam.

bus anima Mulva parietar. 44. 3ii. Flor. Chamom.

evants at 3is. Sambuc. 3i. Rad. Alth. Farin.

nomo Tool Fabar. 42. 3vi, Sem. Cumin. 3is.

bus about Terr. Sigillat. Zi. M. f. C. s. 9.

This Cataplasm, if applyed Warm Three Times a Day will soon take away the Inflammation and hardness, But if you think it not strong enough, make use of the following.

Mayel

R Farin. Fabar. orobi. Hardei Lupinor. Lent. aa. 311. Succ. Ruta 311fs. Ol. Chamom. Rofar. Aa. 31. Liziv. Dulc. Oxymel. Simpl. aa. q. s. M. f. ad Catapl. consistentiam absque igne & calide applicetur. This Cataplaim I have often used with wonderful Success.

Bubonocele, Hernia Ganglionis, are also Extensions of the Nerves or Bubonocele. Inveterate Ganglions as Selingen calls them, and may be cured with this Emplastrum Magneticum Arlenicale, if they are not of too long Continuance.

R. Gum. Sagapen. Ammon. Galban. aa Ziifs: Cere Zvii Terebinth. q. s. Ol. Succin. 3ifs. Magnet. Arfenical. Zilifs. Succ. capar. Bil. terr. Vitriol. edulc. 3i. M. f. Emplastrum.

But if this also should not have its defired effect, then a careful Ex-

coriation is the fafest and speediest Remedy.

The falling down of the Womb, the Ancients also reckoned in the Falling down Number of Ruptures; tho it's only a Laxation and swelling of the In- of the Womb. ternal Membranes and Ligatures, which may be remedied by Refolving Medicines, of which you will find great plenty in Barbette, Cap. 10.

Pag. 259.

In April 1686. I had a certain Gentlewoman of this Town in Cure Observation. of 49 Years of Age, who was troubled with a falling down of the Womb as they call it, whom a Midwife and a Chirurgion both had in Cure above a Year, but all to no Purpose, for neither of them knew what it was or what Course to take with it. Her Distemper was a hard fwelling on the left side of the Pudenda, which came by a Difficult and Painful delivery in Child Birth, after which a Watry Humor fettled in that part, which might have been evacuated at that time by a small Incision; but the Midwise and Chirurgion applying abundance of cooling Medicines to it, made it settle faster till it grew Gelatinous, which was the Cause of its hardness. I knew by Experience that the best Medicines I could use, would signifie very little in this Case, and therefore without delay, I made an Incision into it and took above Twelve Spoonfuls of thick Viscous Matter out of it, which being put into a Bason coagulated like a Jelly; by which Operation the Gentlewoman was foon Cured. that one part of them was purched an

· Pro P. 449.

ting s because it's highly nexellare, they all heartly view and Exhope to faceged in the Care, and not truft to fach as are to be bought

New to Deferibe what forces Traffer are niel

Ruptures called Enterocele, Epiplocele & Entero-Epiplocele. What they are, how Distinguished and Cured? I be viewels

not Chale, Hurr, free, or alcorate the parts. Thirdly that they be to In the foregoing Chapter I confined my Discourse to false and imper-feet Ruptures and now according to Promise will treat of true or tures. perfect Ruptures, such as the Enterocele when the Gutts fall down into the Scrotum, Epiplocele when the Kall does the like, and Entero-epiplocele,

when both contribute to the production of a Rupture.

The Peritonaum which encloseth the Gutts and the Kall, by any violent Accident may be relaxed to that Degree, that it's forced to give way to the compressure of the Gutts and the Wind included in them, and if not timely prevented by a good Truss or Ligature, it still yields to the Intestina till it Rents and Tears it asunder and so becomes a perfect Hernia Intestinalis, First only the Ilion falls into the Scrotum, afterwards the Intestinum Colon and at length part of the Omentum allo. That this oftner happens to Men than Women is because the Testicles of Women are lodged within the Body and those of Men Hang out of the Body in their Scrotum, and also because their Seminal Vessels go on both sides through the Proce us Peritonas, and being all guarded by the Peritonaum, it may eafily happen, that by Violence, Immoderate Exercise, falling, beating, pulhing, riding, leaping or flipping of ones Feet unawares, much fitting or an afflux of incongruent Humors that the Peritonaum, may be relaxed and at length torn in Pieces. In Children these Ruptures are more Difficult to be known than in Older People, for instead of the Gutts there often happens only Water in the Scrotum, which you must not suffer to deceive you, because you may easily distinguish by feeling it.

If it is a Hernia Omentalis, the Tumor in the Scrotum is not only softer and uneven, but always of the same bigness, because the Omentum cannot so easily be brought back again, but sometimes inseparably cleaves to the processus Perutonai, as I have lately observed in the Disse-

aion of Two Dead Bodies.

Cure of Rup-

march suggester

At first it may be cured by the use of my Plaster and Bandage; but if it's grown Old, the Cure is Difficult is not Impossible. For if the Peritoneum is much dilacerated and the Patient would not be perswaded to take care of himself; the best of Medicines and Trusses will avail little, and if the Patient has a Mind to be cured he must submit to cutting. In order to a Cure, the first thing to be provided is an Easy, Fit and Convenient Trus: Secondly good sticking Potions and consolidating Potions: And thirdly if the Patient is not too Old, you may undertake the Cure by Manual Operation, as a Careful Insection and Reunion of the disjoined Parts. And that none may despair of being cured tho in Years, Dr. Decker in his Observations gives us the History of a Lady who had a Rupture of the Gutts and Kall 17 Years, insomuch that one part of them was putrified and yet was perfectly cured.

* Observ. pract. p. 449.

Truffes,

Now to Describe what sort of Trusses are most conducing to a Cure, is unreasonable to be expected and impossible to be performed by writing; because it's highly necessary, that you Diligently View and Examine the Part where the Rupture is, and sit it accordingly, if you hope to succeed in the Cure, and not trust to such as are to be bought ready made. Now in proportioning and sitting your Trusses, observed the following rules. First let them be Light and Easy, not thick, clumsy and heavy. Secondly let them be made of such things as will not Chase, Hurt, Fret, or ulcerate the part. Thirdly that they be so exactly sitted to the Body, that they may constantly keep the Tumor from lalling down; and sourthly is Parchment or Leather is not strong Enough, make them of thin Plates of Iron or Steel.

The

The Cure of Ruptures by Medicines only, is an infignificant attempt; Cure by me for if besides you don't make use of Trusses, you can never expect a good event of your choicest Prescriptions: And therefore presuming you have first provided your Patient of a convenient Truss; I shall proceed to accommodate you with the most celebrated Medicines for this Distemper; the first of which is a Plaster, that I have often experienced with great benefit to my Patients, and the the prescription is somewhat tedious, let not that procure your Dislike; for I am very Consident it will Recompence your Trouble, and give you entire Satisfaction in the use of it.

Be Emplastr. Carminativ. Sylv. ad Ruptur. I odi arabio bate
W. aa. Zxii. Pulv. rad. Consol. maj. Gum.
Tragacanth. Arab. aa. Ziis. Sarcocol. Zii. ii w may bailig
Mastich. Myrrha aa Zs. Gum. Elemi, Bol. qi
Armen. pt. Putam. Cancror. aa. Zvi. Lut.
Fabril. Rad. Alth. Scrophular. aa Zi.
Cera, Terebinth. aa. q. s. M. f. sec. Artem

This excellent Plaster being spread upon Leather, must be applyed to the Rupture, and renewed every Two or Three Days; in the mean time the Patient must Drink every Morning and Evening, Three Ounces of the following Potion.

B. Rad. Arifiol. long. Scrophular. aa 3iss. Sigill. Salomon.

3s. Sem. Wasturtii zvi. Sanicul. Veron. aa. Miss. Cort.

Lign. Fraxin. 3i. Incis. & Contus. gr. modo, coqu. Aqu. Font.

deinde Colatur. 3xvi adde Aqu. carminat. 3s. Spir. Salis

3s. Syr. Cort. Aurant. q. s. M. f. Potio. Dos. Ziiss. vel 3iii.

But fince many Persons cannot endure a Plaster in that part, tho the Hair be taken off, because they often cause intolerable Itching, and raise abundance of small Pimples and Blisters; to such I recommend the following Cerate.

Be Gum. Carann. Sem. Nasturtii aa 31.

Which must be spread upon Leather and applyed to the part affected, giving the Patient inwardly every Morning Sem. Nasturiii 3i. in good Alicant Wine or for want of it good old Claret. Mr. Bandel a very Ingenious Man, uses the following Cataplasm with wonderful Success, but you must also apply a Truss at the same time.

ve an initial R. Terebinsh. Alb. Over. an Sifs. Farin. Fulig. over won I rediegos in Sarcocol. an 3/s. Gum. Arab. Rad. Ariffel. Wolfes to won her bas siems long. Confel. maj. an. 3v. fiat Cataplasm.

Dr. Blanckard highly Commends Semen Perfetiate to be taken every Morning with Aqu. Scrophular. And Dr. Mannick orders the following Cataplaim. For a local and morning with the selection of the second secon

Famous

Be rad. Osmundæ regal. consolid. maj. aa zi.
consolid. regal. zviii. Herniar. fol. Hypericon. aa zs.
Perforat. zv. M. f. Catapl. cum Vin. rubr.

Mr. Blegni directs a piece of Parchment to be steeped Three Days in Aqua Tragacantha and then applyed to the Rupture. Dr. Scultetus of Nurenberg orders with Dr. Hoffman, Fresh Comfry Roots mixt with Hogs Grease to be spread upon Leather and applyed to it. Dr. Volekammer instead of Hogs Lard uses Mucilag. Tragacanth. & Sem. Cydonior. Muraltus prescribes a Quart of Red Wine and an Ounce of Spirit of Salt, and orders the Patient to Drink Two Ounces of it every Morning. Mons. Landes Baugrand above all things extolls Acetum Lythargyr. applyed Warm with Double Linnen Rags. Franciscus Toletus recommends Joiners Glue spread upon a shaving of Wood and applyed to the part. Cardilucius makes a Powder of the Spongeous Substances that grow upon Nutt Trees, and with unsalted May-Butter makes it into an Ointment and Anoints the Rupture with it.

Prior Cabriere's Secret, Dr. Emanuel King has obliged us with the great Secret of Prior Cabriere for the Cure of this Disease, which is as followeth. Spirit of Salt Rectified, of which let Children from Two to Six Years of Age, take Three or Four Drops of it for 21 Days together, in Two Spoonfuls of Red Wine. Children from Six to Ten Years of Age, must take Dili of it in a Quarter of a Pint of Red Wine every Morning for 21 Days. Patients from Ten to Fourteen Years Old, must take Jii. of this Spirit in Red Wine for the time above mentioned. Those from 14 to 17 must take Jiis. of it in somthing less than half a Pint of Red Wine; and from Seventeen Years Old and upwards the Patient must mix 3v. in a Pint of Red Wine; and Drink Two Ounces of it every Morning 21 Days together, and keep his Bed all the time, with the following Plaster spread upon Leather applyed to the Rupture.

But Mastich. 3ss. Gum. Labdani 3iii. Nuc.

Cuprels. Nº iii. Hypocistid. 3i. Terr. Sigill.

3iss. Pic. Nigr. 3iii. Terebinth. Ven. 3i.

Pulv. rad. Consolid. maj. 3ss. M. f. Emp. s. a.

ions cannot endure a Plaffer in that care, the the

This Plaster must not be renewed, but continue on the part 21 Days; after which time the Patient may walk abroad again; but must keep his Truss on a Quarter of a Year longer. This admirable Medicine I have tryed in several Persons, where the Disease had not been of very long standing, and always sound it to have extraordinary Vertue in the Cure of this Distemper. It had so great a Fame in France, that the Prior was obliged to Reveal it to the French King, for the Common benefit of his Subjects.

Cure by Manual Operation. I now proceed to the Third and last Method of Cure, which is, by Incision or Section; Reuniting or stitching the broken part together again, and Constringing the Peritoneum. The Ancients formerly and Quacks at this very Day, never Cut a Rupture but they bring away the Testicle also which lies on the side where the Rupture is; which being a Cruel and Barbarous Operation that seldom has a good Issue, I shall lay nothing surther of it; but proceed to the Method practised by Petrus Francius which is performed without the loss of a Testicle. The

noisevestido

Famous and Excellent Operator at Leyden Schmaltzius was so expert at it, that you could scarce perceive how he performed it without a diligent circumspection; yea, I verily believe, he could have Cut Fisteen Patients in an Hours time, if he had had so many. When I was there he Cut but Six in an Hour, all which succeeded; but then he took more time than Ordinary. His Method I shall therefore Describe as the best

and quickest that I ever saw, and which I Practise.

The Patient being well purged Two Days before, and a Clyffer given him in the Morning Four Hours before the Operation; shave off the Hair and lay him on a Place where his Head may lie lower than his Legs; put up the Guts, and let some Body press them with both Hands that they may not fall down again into the Scrotum. Then with the Three foremost Fingers of your left Hand take hold of the Skin, where the Guts used to fall Outwards; pull it as high as you can and make an Incision in length, of the Breadth of two Fingers, directly upon the Place where the Processus Peritonai is, and where the Guts use to fall forwards. The Incision being made put your Two Fore-Fingers into the Wound and separate the process of the Peritoneum from the adjoining Fibrous and Nervous Bodies, that you don't hurt the Spermatick Vessels with your Needle or Tye; which tho it be somwhat Troublesom is presently performed. Then thrust your Needle with a Gold thread, a little stronger than Ordinary through the Process of the Peritonaum, as near as possibly you can to the Vasa Spermatica, repeat the Stitch, and tye the thread twice Round the Processus, not too hard or too flack and then tye it on a Double Knot. The best way is to pull the Process upwards out of the Wound, and then you may see how to perform it sooner and better. If the Peritoneum is very much dilacerated, sew up those Lips with the Rest. There's no Necessity of tying it very hard, for it does but put the Patient to intolerable Pain; and cause Inflammations with other unhappy Accidents. As it happened in the Year 1696, to a Boy in this Town, who after the Incition, by the Chirurgion's tying it too hard, endured extraordinary Pain, which was followed by an Inflammation and Mortification of the Parts of which he Dyed: Therefore confult your Discretion where there is so much Danger; the Thread may in time be Cut off, and the Wound by Degrees healed and Cicatrized.

There are several other kinds of Operation, as a Cantery, the Golden wire &c. but being all grown out of use, I shall not concern my self about them; but only Discourse a little of the Punctum Aureum, which is to be performed in this Manner. The Section being made as above-said, and the Musculus Cremasteris and the Spermatick Vessels being well separated, thrust the Point of the Gold wire through the Process near the Spermatick Vessels, and after this Stitch has been once repeated, twist the Wire twice Round the Process; with the Forceps pinch the Ends close together, and so leave it to be healed like other Wounds. Care must be taken not to tye the Wire too sast that goes Round it, and to tye the Knot so even that it may hold and yet not injure the

parts that are near it.

The Operation in Women is performed in the same manner as I have shewed in the Gold thread; only take care, if the Peritonaum is grown to the Process, that you dont violently separate it, but let it alone; for in Women it may be well performed without that part of the Operation.

Observation.

In May 1687. I had a great Senatour in Cure from Lipfich, who had a prodigious Rupture of the Guts, and had been some Years at Dantzick in hopes of a Cure, but at last came to me and lodged in my House, that I might the better take care of him. In the first Six Weeks I treated him with the best fort of Trusses and other Methods, but all to no purpose, because the Rupture was too large. When he saw nothing would prevail but cutting, he confented to it, which was performed in a Fine clear Morning, and that in every point according to the Method practifed by Schmaltzius. When the Section was made and the Process separated, I found a great part of the Omentum in the Scrotum, flicking fast to the Spermatick Vessels, which cost me a great deal of Trouble to bring off, and put it up into its right Place again: However with care and patience I accomplish'd it, with very inconfiderable Pain to the Patient. This being done, Istitched and tyed it ; Ten Days after took away the Thread and in Six Weeks time fully cured the Wound. Here you may observe, that if any part of the Omentum is fallen into the Scrotum, you must neither leave it there or Conftringe it; but put it up again into its right Place, for otherwise it will Mortifie and cause deadly Symptoms. vide. Tab. 5. Fig. 1.

CHAP. XIV.

Hernia Ventosa, Aquosa & Carnosa, or Windy, Watry and Fleshy Ruptures, their Symptoms, Causes and Cures.

Windy Rup-

The Signs.

Neumatocele, Hernia Ventosa or a Windy Rupture, is a Tumor and Extension of the Processus Peritonei and the Scrotum, and contains little else than Wind and a little Moisture. The Diagnofticks of these Flatulent Tumors, are much like the Watery Ruptures, for they are both perspicuous, tho these are very light and the Watry ones Heavy and Shining. If you press the Scrotum something hard, the Wind will go backwards with a great Noise, you cannot make Dents into it with your Fingers as in the Aqueous Ruptures. The Spermatick Veffels are bloted up, and fuch Patients complain very often of a great Oppression by the enclosure of Wind in the Guts.

The Caufes.

The Causes of this Rupture may be easily guess'd at by its Description. Blanckard fays it is a Tumor fill'd with Air intermixed with a fmall Quantity of Humidity. Dr. Munnick fays, that Wind contained in the Scrotum between the Tunica Vaginalis and Albugnea, where it gathered and extended the Parts was the Cause of it. Gulielmean refers it to the Coldness of the parts, weakned by Internal Infirmities, and all agree, that external Refrigerations of those Parts and Immoderate Venery, are often the Cause of these Tumors.

The Cure.

The Cure must begin with gentle Laxatives, good Clysters, with fuch Medicines as expel Wind, and hinder the great access of it to those parts. The Patient must also be kept to a strict Dyet, and sorbear all kind of Meats and Drinks that are apt to breed Wind. The following Cataplaim is very proper in this Cale. Theb

Be Fol. Verbasci Althea flor. Chamomil. Rom. aa. 311. Farin. Fabar. Orob. aa. 31. Sem. Dauci 3/s. Cumin. 311. Carvi 31. bacc. Juniper. Bifs. Sem. Anifi, fol. Rute, Origani, aa. 3v. f. ad Pulv. & Misc. cum Lixiv. & Vin. Rubr. aa. ad Catapl. confift.

This must be spread thick upon a double Linnen Cloth, and applied warm to the Rupture, Blanckard fays much in commendation of the following Cataplaim.

> Be Stercor. Ovil. 3vi. Sulphur. viv. 3ii. Aloes, Myrrh. aa. 3/s. Bol. Armen. 311. Mellis q. f. Misc. fiat Catapl. Calide applicetur.

Sometimes fays the Author, I mixed it with Red Wine and Spirit of Wine, as I saw occasion; and it seldom or never failed to answer my purpole. The next is an excellent Water to expel Wind, and take away the Pain if the Rupture is gently washed with it.

> Re Aqu. Carminat. 3vi. Spirit. Cumin. 3/s. Juniper. Bill. Effent. Cort. Aurant. Citri az. 3i. Eff. Opii Di. Ol. Pulegii distill. gut. xi. Misce Jerv. pro 11/16.

This Water is of incomparable Vertue in this and feveral other Difeafes: as Hysterical Passions, the Colick, Wind, Griping of the Guts, &c. When the Pain ceases, and the Swelling of the Scrotum by these Medicines is abated, apply your self to expel the rest of the Wind, and bring back the Tumor as far as you can, that you apply a good Trufs, and prevent the further entrance of what encreases them.

Hydrocele, Hernia Aquala or a Watry Rupture, is also a Swelling of Watry Rupthe scrotum, by the gathering of an Aqueous and Viscous humor, tures. which by degrees increaseth to a great bigness. It cannot truly be called a Rupture, because it's nothing else than an Extension and Relaxation of the Peritonaum. These Tumors often happen in such as have the Dropfie, because the Water wanting room in the Belly, the Proceffus Peritonai is thereby fo much relaxed, that the Water at last must of necessity fall into the Scrotum, and extend it to a vast magnitude.

Diagnosticks of an Aqueous Rupture are perceptible to the Eye, for The Signs. they are clear, foft, and yield to the Touch, but don't grow less by any Compression, for though the Water may at that Instant go back with a Noile, yet it presently returns again. If you hold a Candle to it, you may eatily see quite through it. The Patient seldom complains of any confiderable pain, unless the Water is grown sharp and Corrosive, and a Testicle is injured, which often occurs in Aqueous Ruptures.

The Causes of these Ruptures are several, as Internal Hurts, Accidents in the Lower Belly, Indisposition of the Body, Erosion of the Lymphatick Veffels of the Bladder and Ureters, external violent Exerciles, and especially the Hydrops Ascites, by which the Lymphatick Vellels are many times injured.

While

While these Ruptures are young, there is little difficulty in curing them; but if inveterate, are very troublesome, and often incurable. If this Disease is accompanied with a Dropsie, opening the Scrotum signifies nothing, for as often as you draw out the Water, it immediately fills up again. External Medicines are of as little use in this case, for if the Rupture is inveterate, 'tis a Noli me tangere, because the Water is grown too thick, very sharp, and the Testicles are damnified. However, because while there is Life there is hopes, I will pleasure you with such Medicines as are employed in these circumstances, and also shew you the Chyrurgical Operation. To begin with Medicines, I have found great benefit by the following Cataplasm.

Re Pulv. Alchimil. Verbasc. aa. 3ii. slor. Chamomil.
Sambuc. aa. 3is. Mastich. Sem. Cumin. Carv. aa. 3i.
Bacc. Juniperi 3ii. Terr. Sigillat. 3iis. Alum. Crudi
3ii. Myrrha, Oliban. aa. 3is. M. f. Catapl. cum s. q.
Vin. Rubr. It must be applied warm to the Scrotum, and the Patient must keep his Bed. The following is prescribed by Dr. Blanckard.

Re Stercor. Ovill. Zvi. pulv. Alchimil. Ziiss. Farin. fabar. Zii. Sem. Dauci, Cumin. Carv. aa. Ziss. Baccar. Lauri, Zii. Juniper. Ziss. Mastich. Zi. M. f. cum s. q. Spir. Vint & Vin. rubr. ad Catapl. formam.

When such a Rupture has been opened, or is abated to such a degree that a Truss may be applied to it, then the following Plaister is of incomparable use; for it consumes the remaining Water, strengthens the weakened parts in the Scrotum, and preserves them from a fresh inundation of the Water.

Re Emplastr. Carminativ. Sylv. Diaphoret. Mynsic. aa. 3vi. de Ran. cum Mercur. Vigon. 3iiii. Cumin.

Aug. 3iiss. rad. Cucum. Asinin. Bryonia
aa. 3i. Bacc. Lauri 3vi. Sulphur. viv. Mastich.
aa. 3ss. Sem. Cumin. 3iiiiss. Myrrh. Lavendul.
aa. 3ii. cum s. q. Cera & Ol. Cumin. f. Empl.

If these Medicines will not prevail, nothing remains but opening it, which without more Ceremony I do on this manner. First, I make an Incision with a Lancet about an Inch from the Suture, and twice a day draw out so much Water as I think will not too much weaken the Patient, and stop up the Wound with a Tent, and a good sticking Plaister to prevent the Water from going out unknown to me. In this manner I continue till the Water is all drawn out, and then heal up the Wound with an Oppodeldach Plaister. Now, though I generally succeeded in this Operation, yet I find by experience; that often in one or Two years after they break out again, notwithstanding the Patient wore a Truss all the time; so that I was obliged to begin again. I had a young Man in Cure, who was opened Ten times in Thirteen years, and still it returned again. So it fared with Hans Sigmund a Taylor, who in the year 1679, was opened at Brunswick by Mr. Schulfer.

fer. In the year 1681, at Quidlinburg by Mr. Crause. In the year 1682, at Franckfyrt by Mr. Kauffman, and in the year 1685, was

Sarcecele, Hernia Carnofa, or Fleshy Ruptures are at first but a Gela- Fleshy Ruptinous Matter contained in the Scrotum, which in time becomes a Spun-tures. gy Heshy Tumor; they don't grow all at once, but begin in small Knots, and grow bigger by degrees. Some adhere to the Spermatick Veffels, others to the process of the Peritoneum, and those may be fooner cured than the former. The Signs confift in the Sight and Feeling, for the whole Scretum is knotty, swelled, very hard, and painful in being touched. The Caufes of these Ruptures, besides what has been already suggested, proceed from the Erosion of the small and tender Veins in the Scrotum and Tefficles, which being torn, a small quantity of extravalated moissure in time produces them; or also, as I have often observed, from an Aqueous Rupture of a long continuance, where the Lympha growing thick, at last turned into a fleshy Tumor.

The Cure depends either upon good penetrating Medicines, or a The Cure by Chirungical Operation; though the former feldom prevail, because Medicine. the fleshy Substance will neither be dispersed nor exsecated. Dr. Soultetus highly commends a Drachm of Radices Ononides taken every day in Powder, as an infallible Remedy, and Matthiolus and Munnick are of the fame opinion; but I have known them to obstinate, that this Medicine had no effect; and therefore think the Chirurgion, affoon as he perceives it grow to a fleshy Rupture, had better apply the following Plaifler; for if it does not take it quite away, it will better prepare it for

or not tying it as it thould be comen caules this findtime, becagnition nestord to beil Emplaftr. Diaphoret. Mynfic. Diachylanied waters ban godner cum Gum. dac 3vi. Cera Biifs. Gum. Ammon. 11 , 1700) al butW Man Baellii, Opopan. aa. 31. pulv. rad. Ononid. 11 to millawe gimo V or gasem. Sinap Urtic. ad. 3vi. sulphur. 3i. ing & grote V/ 10 Obfrudions, if chieren Spring da. 3fr. Ol. Laterin. g.fi enouvelles, or any Accident that cautes a Melaxation of the land and

The Cure of People in years is always difficult, and fometimes in-To cure it by section, you must make an Incision of a good length, Cure by Scon the most convenient fide of the Scrotum, and excoriate and separate ction. all the Carnous Substance from the Serotum, Testicles and Spermatick Veffels, so that none remains; for if any part be left behind, it will grow again. This being done, few up the Wound in the Scrotum with Two or Three Stitches, and heal it like other Wounds. This Operation is generally very troublesome and vexatious, for if the Flesh is considerably large, and grown fast to the Testicles and Spermatick Vessels, there is so much danger in hurting them, that the greatest care sometimes cannot possibly avoid it. Sometimes it happens also that the Tefficles are Rotten and Putrified, and then the Operation is wholly in vain, for the Patient feldom or never recovers. Some Operators that are unwilling to take so much pains, make short work with it, and cut away the Testicle at once, nor can I blame them for so doing, if the Testicle is touched, for sometimes the Patient is preserved by it; but if the Tellicle and Spermatick Vessels are found, 'ris a barbarous Practice, and the Operator ought to be reckon'd among the Castrators or Guelders and not among Chirurgions, who are obliged to fave every part in any Man that can be faved.

In September 1679, Christian Sturme a Butcher came to me from Oftenwick, who had a large Sarcoccle several years, which arose from a watry Rupture. The Tefficles and Spermatick Veffels being all found, -quality and - I cut it a made Two or Three Stitches in the Wound, and perfectly over -cured it in Five weeks time.w , watered off ni bonian of route gy, I chy Tumor; they don't grow all at once, but begin in Imall

Veliels, others to the process of the Peritensum, and those may be somer cured than the VXIer. . TA SHas Institute in the Sight and I cel-

Omphalocele, Hernia Umbilicalis, or a Rupture of the Navel,

ing, for the whole Scottans is knotty, twelled, very hard, and painful

tity of extravalated moifture in time produces them; or also, as I have HE Signs of these Ruptures may be easily seen and fels. If the Kall only makes this Rupture, the Tumor feels very loft, and no and and another is to be heard, though it que crush'd very hard; but if the Bowels are fallen into it alto, the Tumor is harder, and will relift the touch of your Fingers. Again, if it proceeds only from the Kall, when the Parient lies down, it will go up again of it felf; but if from the Guts. they cannot be put up again but with great difficulty. The Causes hereof are many, and may be eafily collected from what has been faid of the reft. They often happen to Women after hard Labour ; to Children that are much given to Crying, and to fat and gross bodied Men, Leaving the Navel-firing too long at the Birth of a Child. or not tying it as it should be, often causes this Rupture, because the Peritonaum being then very tender, may be eafily extended or broken. In short, the Cause of these Ruptures is a Laxation, Extension and Swelling of the Navel, upon the Entrance of the Guts, the Kall, Wind or Water; a painful and continual Cough, great straining to Vomit, Obstructions, indurated Excrements, Falling, violent Exercises, or any Accident that causes a Relaxation of the Navel.

The Cure of People in years is always difficult, and sometimes impossible to be performed. In Children they are best and soonest cured; fometimes only with a good flicking Plaister, in the middle of which must be put a small piece of Wax made like a Button, to keep in the Rupture, and over that a good Roller round the Belly; but if the Rupture is large, apply over the Plaister also a piece of Lead beat indifferent thin, and over that again a good Bolster tyed pretty hard, and if that will not avail, make the Lead thicker, and wear a broad Leather Girdle round the Belly to keep it more close. The following Plaister is very proper in this Cafe. ment go much it regard down of

cannot policify avoid it. Sometimes it happens also chat the ni vilod wai Be Emplastr. ad Rupturas Wurte. 3xii. Pulv. rad. and confelia. maj. 311. Bol. Armen. Tragacanth. aa. 31/5. 100 has a Cort. Auftr. ppt. 31. Oliban. Mastich. Myrrhe aa. 3500 018 and I am M. f. c. f. g. terebinth. ad Emplastr. confifentiam.

e Parient is preferved by it a but if Of the following Mass I use to form a Button, and apply it to the Navel, with the abovementioned Plaister over it. no water O and bus

and not among Chirurgions, who are obliged to fave every part an any

boveled asoRetrutial

m

bho convin & Tutie ppt. Bol. Armen, Bis Testarum Over. mastich. Myrrh. aa. 3ii. Alees 3i. Opii 3ii. M. f. cum f. q. Mucilaginis tragacanthe ad Maffam.

This Mass may be also used in other Accidents, as in old Ulcers, Piftula's, and fuch as cannot fuffer a Plaifter there ; for it exficcates admirably, tempers the Acid and Acrid humors, and far exceeds any Olly, Unctuous Medicines what foever. The two following are both of the same nature, and wonderfully ftrengthen the parts, and promote Gurs back. I began the Cure by keeping him Eight da guilland right

applying warm to the Rupture the following Caraplain B. Rad. Ariftoloc. long. Terr. Sigillat. aa. 3ii. Ocal. Cancror. Lap. Ofliocolle ppt. aa. 31fs. Myrrh. Aloes, aa. 311. Sang. Draconis 3111. pracipito alb. 31. M. f. Maff. c. f. g. Mucil. Tragacanth.

as. Bi. Terr. Sigillar, Bvi. M. Re Lap. Oftiocoll. ppt. Terr. Catechu. Tatie ppt. aa. Biifs. Lap. Silic. ppt. Bii. Flor. Antimon. Croc. Enjusted bas Met aller 44. 310 Lap. Hamatis. ppt. I Boli Armen in W bne niege PPt 44. 3vi. Gnec Waner &fs. Flor Cinzergv. ett q ont odi or bound Gum. Elemi, Pracipit. nubr. an gifs. M. f. cum que noils

If these Medicines should want their defired effect, and you have also in vain applied a broad Leather Girdle ; then you must proceed to Manual Operation, in the manner prescribed in the thirteenth Chapter, or with such alterations as your Eyes and Understanding shall dictate, as most proper in the Case before you. M. f. Empl.

Truffes being of absolute necessity in the Cure of these Discases 3 Of Truffes. and yet to few have treated that Subject, with that care and diligence that ought to be employed about it, I thought my felf obliged to deferibe the particular forts of them in their proper Figures, that the Chirurgion may chuse which he thinks fittest for his purpose. If the Rupture is small, and in young Children or older Persons, is only an Extension of the Personaum, there is no occasion for a Steel Trus, one of Leather fluffed as in Tabul. 5. fig. 2. will do your bufiness, with a proper Platter first applied upon the Rupture. But if that should not prevail, take that described in fig. 3. which has only one single Plate A, with a Screw B, and the rest only Leather. If you want a stronger, take that described in fig. 4. which has a Plate that not only covers the Rupture, but also goes round the Hip on the fide where the Rupture is, and the other lide is only Leather like the former. Fig. 5. is yet a ffronger Trus than the other, and of a new Inventions vrig 16. and 7. are two excellent Inventions, for they always prevent the Rupture from falling down, and are so easie that the Patient may follow his Business, or use any Recreations while he wears them. Fig. 8. is the newest Invention. A is the Plate upon the Rupture; B is the Girdle that goes round the Body, made all of Steel, with two or three Joints, that it may bend, and is covered with foft Leather. C is a thick Roll of Lea-

ther.

ther. D is that part of the Truss which is to go between the Legs, if necessity requires it. Fig. 9. is a very ingenious Contrivance, and made for one that has a Ruprure on both sides. So much for Trusses and

Ruptures.

rher

In March 1691, I had a great Nobleman in Cure from Merssen. A. C. U. B. who was troubled with a large Rupture of the Guts and Kall, and his Offices at Court, Travels in Publick Assairs, and being very fat, made it almost unsupportable to him. He had been under the Hands of several Chirurgions, without benefit, and had employed Trusses to no purpose; and when he came to me, had thrown them off, because they only made him fore and galled him, without keeping the Guts back. I began the Cure by keeping him Eight days in Bed, and applying warm to the Rupture the following Cataplasm.

B. Pulv. fol. Verbasc. Malv. aa. Ziist. flor.
Chammomill. Zii. Sambuc Zi. rad. Altha.
Farin. Fabar. aa. Ziss. Sem. Lini, Fan-græc.
aa. Zi. Terr. Sigillat. Zvi. M. f. cum s. q.
Lact. ad Cataple

With this Plaister I had such good success in mollifying and softening the parts, that I easily pur every thing into its right place again, and then applied the following Plaister, and a convenient Truss sitted to the Part, made only of Leather.

Recerat. de Minio, Empl. ad Rupturas wurtzsi

aa. 3vi. pulv. rad. consolid. maj. Scrophular.

Tragacanth. aa. 3i. Putamin. Cancror. 3iss.

Myrrb. Massich. aa. 3iiss. Cera, Terebinth, aa. 9. s.

M. f. Empl.

All this was done, the better to prepare him for the Manual Operation; and it's not unworthy your observation, that the Guts. and Kall being long out of their places, and exposed nearer to the Air, do commonly grow very cold, and therefore ought to be put up again some days, before you attempt the Section : The parts also contract Wind by the Guts having been long down, which must also have time to pals out, before you perform the Operation; and this being done, and the Patient much at ease, I made the Section in the Presence of Dr. Tilesch and Mr. Hans a Chirurgion in this Town, exactly according to the Method prescribed in the Thirteenth Chapter, and that with fuch success, that in Five weeks after the Wound was healed up again, and he returned home in perfect health. ber 13. 1697. As this Nobleman was going to the King of Poland at Crakow, he was pleased to make me a Visit in his way, and told me with great Joy and generous Rewards, that he never had been troubled with it fince. However evaluated small failing down, and are to calle that the Patient may follow his Bulinels,

or use any decreations while he we resthem. The R. is the newell in-

A is the late upon the Auprure 5 & is the Girdle that goes

pily, that we foun found the bottom of the Fifters, which we than Tehete Filtula's are a remodeled by Hammarions, as if the Page

Fistula's in the Lower Belly, Fundament, Scrotum and Privities, their Difference, Cause and Cure.

N attempting to cure these Fistula's, the Chirurgion must first diligently enquire into the state and condition of them, viz. Whether they are large and deep, of what Figure, what Openings Signs and Turnings they have, how scituate, whether only in the Flesh, or into the Cavity of the Belly, or upon a Bone, or have entred the Guts; for till these Particulars are known and well considered, 'tis in vain to undertake the Cure.

Not long ago I had a Nobleman in Cure in this place, who had been under a Chirurgion's hands for the Cure of a Gonorhaa, and he Stopping the course of the Gleet too haltily, it turned into a Buboe, and that into a Fiftula, which he endured a long time, and at last confulting me, I cut the Fiftula to the bottom, and at length cured him, but not without a great deal of pains and trouble, and only mention it here to acquaint the Chirurgion, that unless he goes to the

bottom of the Fiftuta, he labours in vain.

The general causes of Fistula's, are Tumors, Imposthumes, ill cured Wounds, the Pox, Buboes, Gonorrhea's, Ulcers and ill managed Caufes. Ruptures, and sometimes external Accidents and violent Exercises; for Fifula's are cally generated in these parts, because they are Glandulous, Spongy, and apt to generate Cavities, if not timely prevented. The Matter in such Fiftula's are sometimes so sharp and malignant, that they prejudice and putrifie all the neighbouring parts, the Guts not excepted, and then the Case is dangerous. If the Fiftula happens upon a Bone already Carious, the bottom of the Bone will be rough and uneven, and if it runs into a Gut, and you touch it with your Instrument, the Patient suffers intolerable pain, and generally there iffues out an abominable Stink, and perhaps a thin kind of Excrement.

The more Cavities, crooked Turnings, Fleshy and Callous Substances, Rottennels of Bones, and Fungous Excrescences accompany the Fiftula, the more difficult it is to cure; especially if the Patient is of an ill habit of Body, is touched with the Venereal Malady or very much emaciated; but where the Patient is young and vigorous, a Cure may be more reasonably expected. Some Fistula's in the Scrotum will never be cured, as I can speak by experience in two several Patients; one a Merchant in the year 1679, who had a Fiftula in Ano, which went into the Intestinum Rettum: The other was a certain Divine, who had a Fistula in the same place and manner, and all that I could do, was but to make a Palliative Cure of it. But I had better success in the case of a great Imperial General, who had a Fistula between the Scrotum and the Fundament, to whom I having shewed the great danger and difficulty of being cured by Medicines, he refolved to have it cut immediately; which was performed in the presence of Dr. Tielisch, November 18. 1692. and that so hap-

Hiftories.

pily, that we foon found the bottom of the Fiftula, which we Cau-

terized, and perfectly cured the Patient in Six weeks time.

If these Fistula's are accompanied by Inflammations, or if the Patient is Feverish, these accidents must be removed before the Chirurgion proceeds to the Section. While the Patient is in Cure, accustom him to the use of Decottum Lignorum and instead of Beer or Wine let him Drink Tea or the Vulnerary Decoction. If there are several Orifices, without Fear cut them all into one, to bring them into the same Line; but if there is but one Orifice and that of the narrowest, endeavour to make it wider with a Tent made of the greater Comfry Root, or with an Incision, that your Injections may Reach the bottom of the Hillula; or make an Incision to the bortom at once and then Cauterize it as you fee Occasion. There are other ways of performing this Operation, but are all more Troublesome, and less Safe and Certain than the Method already prescribed. You must also employ good Detersieus and Mundiffing Medicines, of which I will present you with the Choicest, and begin with a Water which thrown into the Fiftula with a Syringe, will exficcate and heal to Admiration. I control of to all so and gridgest ring into a Filmia, which he coduced adon

But if you think the Disease is so contumacious as to require one something stronger, make use of the following, which will est causly take away the Callus.

B. Aqu. Calc. viv. 3vi. Effent. Myrrha

3ii. Euphorbii Effent. 3is. Sacchar. Saturn.

3i. Sarcocolla 3s. M.f. ad Injection. s. art.

If by this means you find the Fistula very clean and fit for healing, apply the following Balfam.

Be Flor Voron, Aristoloch. long. Alchimil.
aa Ziis. Nicotian, Mii. concis. coquant. in
s. q. Aqua Mellis f. Decott. Colatur. coque
ad consistentiam Mellis & huic admisce
Mell. Chelidon. Pulver. Aloes Myrrh.
Sarcocoll. Sacchar. Saturn. Zi. f. Balsamus.

Apply it Warm with Lint to the Fistula; which is not only proper in this case but in all manner of Ulcers and Fistula's, for it cleanles and Incarnates, and yet by its Acrimonious Quality causes no extream Pain to the Patient. Licenciate Junken has also given us the Receipt of a very good Balsam in these Circumstances.

Be Succ. ex fol. virid. Nicotian. Succ. Cancror. recent. expr. aa. Ziiii. Mell. Rofar. Zi. Mercur. dulc. Zi. M. ad Balfam. confistentiam.

But fince some Artists are better opiniated of a Mixture or water than a Ralfam, I shall accommodate them with some prescriptions of that kind, which will answer their Intentions, tho I am of Opinion that Ballams are better; because they Continue longer on the part affected. ente, and having made one Incaron more, much larger tha

the Fall, Ruta, Scord. Alchimill. aa Mi. rad. vo boshojni I che Fall ula sand by and by and by and by and by a sand Arifoloch. long. 31. Gentian. 311. herb. Veron. zaw moine 9 ods Mis. f. Decoctio cum Aq. Flor. Prunell. s. q. Colature 3x. adde Tinet. Galban. Effent. Myrrh. aa. 3111. Sacchar, Saturni, Flor. Cinza sa. 311. aq. Regin. Hungar. 31/s. Misce & in loca calid. Serv. pro usus if you look into the Chapter where we treat of Fistula Lachrimalis, you will find more Waters of the same Nature, iw ni biel saw robwo I sid!

In October 1679. I had a Brewer of Halberstadt in Cure Thirty Nine Observation. Years of Age, who was afflicted with a Fiftula in the Lower Belly near the Groines, which had two openings, one a good Diftance from the other. Another Chirurgion in the same Town had him in Cure three Quarters of a Year, and endeavoured by all the ways he could invent to bring both Orifices into one, but could not accomplish it. The next Day after I was fent for, I took him with me to fee the Operation that he might know how to do it another time. I took a Syringotomon, and wi h it at once Cut both the Orifices into one, which he wondered at and thought it had been impossible. This being done, I ordered the Patient a good Decoction; applyed one of the above mentioned Balfams to the Fiftula, and in Fourteen Days it began to Mend and gave good hopes of a perfect Cure; but because I saw him begin to break out in large blotches about the Thighs, Breaft and Posteriors, I pur him immediatly under a gentle Salivation and in Five Weeks time fie was throughly cured.

In September 1689. I had in cure a Burgher and Clothier of this Town 46 Years of Age, who was troubled with an Inveterate Fistula in the Fundament, which several had attempted to cure, but to no purpose. The Patient was otherwise healthful and of a good Constitution, and the Orifice of the Fistula was not circa Scrotum & Anum, but on the left Buttock, about three Fingers Breadth from the Fundament. I bernound often effayed to get a Probe, or a Wax Candle or a Leaden Probe into the Fiftula but could make no Entrance, and yet could eafily apprehend by the Colour of the Matter and the Stink that the Fiftula went into the great Gut, which we found so the next Day by the help of a Speculum Ani. The Patient complain'd of excessive Pain and could hardly a god and w Walk, Sir or Lye Down; for which Reason I applyed a Cataplasin to it Three or Four Days, and endeavoured to Widen the Orifice of the Fiftula with Tents made of Prels'd Spunge, but this availed little, for I always found something hard which refisted every thing that I endeawour'd to put into it; therefore on the Fifth Day I made an Incilion, enlarged the Fiftula, and with a Forceps pull'd out of it a very large piece of Comfry Root about a Fingers length, which might very well Occafrom the Pain and Uneafiness he complained of. And I must Confess that in my whole Life I never met with fuch a Rude Clownish and Horse

The Cure.

Doctor like a Treatment as this was, nor could think that any Man could have been so Ignorant as either to make use of such prodigious large Tents, or be so unskilful as not to secure the drawing them out again. As soon as this Tent was drawn out, the Patient was more at ease, and having made one Incision more, much larger than the former, I injected good detersive and cleansing Liquors to the bottom of the Fistula, and by that means and applying the following Powder to it, the Patient was cured in the space of Six Weeks.

B. Pulv. Gumm. Arab. 3i. Elemi 3ii. rad. consolid. maj. Tragacanth. aa 3is. Sarcocol. 3ii. Mastich. Mirrh. aa 3i. M.f. Pulv.

This Powder was laid in with a little Lint, and over that the Balfam above mentioned. I ordered the Patient likewise a Spare and Drying Diet, and his constant Drink to be a Decoction of the woods; if at any time he was Costive I prescribed him a Clyster, and by this Method in Nineteen Weeks time he was cured; but not without very diligent Care and Attendance.

he might know how to IIVX orb. Q . A. H . D k a Spring tomon, and with a spring tomon, and

Day after I was lent lay, I took him with me to ke the Operation that

Accidents of the Privities and Bladder, and first of the Carunculæ in the Passage of the Tard, next of a Gonorrhæa, Ulcers of the Tard, Cordee's or a Contraction of the Frænulum and a Tume-faction of the Præputium: How Caused, Distinguished and Cured.

Carunculæ

These, vulgarly called the Running of the Reins, or fometimes from an Ulceration or Inflammation of the Bladder; for Matter is from whence very apt to Stick to those Glandules, or the adjoining parts where the they proceed. Sperm issues out. The Matter is Acrid, Gelatinous and sticks so close that the Urin passes over it without washing it away. This Matter at length Corrupts, Gnaws the Skin and causes several exulcerations, out of which if not timely prevented, grow little pieces of Flesh, which which in time harden into Warts and are very hard to be cured. In short,

80 I had in cure a nargher and Clerhier of this Town

Caruncles are small Excrescences or Warts growing near the Neck of the Bladder and the Parastata, and are very painful to the Patient.

In order to cure these Vexatious and Tormenting Excrescences, 'tis necessary in the first place to know how and where they are seated, which must be done with a Wax Candle, for the Patient will tell you when you Touch upon them, and you may also find by your hand when the Instrument or Wax Candle will go no farther. All things that Cleanse and purify the Blood and Juices and Temper the Acrimony have the first Place in curing this Distemper, among which the Mercurialia have the preference. The following Liquor must also be

No. of the last of

The Cure.

injected into the Yard at least three times a Day Warm, and the Pipe of the Syringe must be long enough to reach almost to the place where the Caruncula are.

B. Decott. Alchimil. & rad. China cum Aq.

Rlantagin. Zvi. Sacchar. Saturn. Ziils.

Sarcocol. Zis. Essent. Myrrh. gutt iiii Laud.

Qpiat. gr vii. M. f. Injest a.

This being done you must provide a stender Silver Pipe with a small Head, which must be long enough to pass over the Caruncles, and at the lower end of the Pipe which is put into the Yard there must be large holes, that when you blow with the Pipe the following Powder may fall upon the Caruncles.

Be Antimon. Diaphoret. Zii Ocul. cancred wyllad od at all and all and

Having put this Powder into the Pipe and the Pipe into the Yard, blow in the Powder two several times, and three times a Day; but first let the Patient Urin before you blow it in, that his Water may not wash away the Powder. Some rather chuse the following Powder.

ei enien ed Re Colophon. Ziii. Tutie ppt 3/s. Cort. Austr. ppt rone A
eds benden Lap. Ostiocoll. ppt. aa Ziis. Mercur. pracipie June vincommos
soiul rieds Diii. flor. Cinz. Ziss. Aloes, Mastish. aa. Zinge din mineral
and ellem M. f. ad pulv. Subtilise. To nut yell etter recom eds ni

A Gonoribea how cauled.

You may add or Diminish the Quantity of the Precipitat as you find Occasion: As for the Colophon, you ought to make no Objections against it, for upon Tryal you will find it one of the best Medicines in the World for this Disease, because it stacks close with the other Ingredients to the Caruncles, which is a benefit to be covated in this case. When you have used the Injection and the Powder for some time together; and find that the Urin passes away without Pain, it's a sign the Caruncles are going off, and therefore you must put the following Pastillum or Wax Candle into the Yard, and make it so long as it may reach beyond the Place where the Caruncles are seated.

Pet Tutie ppt. Creta ppt aa zs. Lap. Caliminar. de oldislog ppt. 3vi. plumb. ust. 3i. Myrrine 3i. Croc. Metalicr. V dousem pracipit. alb. aa Diiiss. Misce. f. Massa cum suffer the ow sids ciente quantitate Mucilag. Tragacanth. s. and st 2110 od I

Take a Yarn, double it Three or Four times and draw it once or twice through melted Wax: Then rowl it two or three times in this Mass being first made Liquid, that it may stick the better to the Wax-Candle, and let it dry every time before you rowl it a Second time; then put it into the Yard, let it continue there all Night, and the

Cure of a Co-

hext Night, and Continue to doing till all is well. Another Paftil of the fame Nature follows.

Re Emplastr. de Ranis cum Mercurio 3 vi. Diachil.

Simpl. 3 v. Ol. Amigdal. Dulc. q. s. Liquefac ad Ignem

lent. donec omnia exactissime sucrint mixta, remove

ab igne, adde Test. Ovor. ppt. Tutia ppt. Lap. Ostiocoll ppt.

aa 31. Croc. Metallor. Antimon. Crud. aa 35s. pra
cipit. rubr. Sacchar. Saturn. aa 311. Aluminis 31.

This beingo.p. with a finall Head, which me be long enough to infall the lower end or the Pipe which is put into the large must be large the lower end or the Pipe which is put into the large must be large

This Mais must be Spread on both sides upon fine Linken Cloth, and rolled up Round in the Shape of a Wax Candle, proportioning it in bigness as the part requires. To perform the Cure more effectually, especially when the Caruneles were unwilling to come to a separation, I used the following Balsam, which has often done me great Service where nothing else could prevail, for it Purisses to Admiration. I conveighed it into the Yard with wax Candles in the manner above rehearsed.

bue Y eilt oto Be Ballam. Vulnerar. Hantkii Ziii. Peruvian! tud Znivell but a Copdev. an 3 s. Opii purissim. Ziss. Tutie ppt. of eil in wold word in the P. P. and the first ppt. an Zii. Precipit, alb. In M. f. I elt tel first ppt. an Zii. Precipit, alb. On M. f. I elt tel first com der com s. q. ol. Momordica ad Balsam.

A Gonorrhaa.

A Gonorrhaa or as it's generally called the Running of the Reins is commonly caused by excess in Venery, which having to weakned the Spermatick Veffels and Glandules, that they cannot retain their Juices in the proper parts, they run out involuntarily and continually, but this fort of Generrhea, proceeding only from the Weakness of the semihal parts, and not being got by Infection, never grows to a virulent Clap. But a Genorrhea Virulenta proceeds from an ill Fermentation in the Genital parts, primarily in Women, by harbouring the various kinds of Sperm of Hot and luftful Men, which deffroying one another by their Discord, and diffimilary Parts, soon Grow to Putrefaction, and by this Acid Ferment the Sound parts adjoining Ferment and are Inflamed. Now this Venemous Ferment being drawn into the dilated Pores of the Extended Yard, it immediately railes the fame maligmant Ferment in the Glandules and Genital parts of the Unfortunate Agent, and at length causes Inflammations, Impostumations and Ulcers, especially in the Prostate, where the Spermatick Juices being impossible to be rerained after the Proflate are injured, in whom the Spermatick Veffels have their period, the Sperm Islues out continually, and this we call Gonorrhan Virulenta.

Cure of a Go-

The Cure is either Easy or Difficult according to the Duration of the Distemper and the Disposition of the Patients Blood and Juices. Some I have throughly cured by only giving two Doses of the following Purging Pills, and others I have had Extraordinary Trouble with.

Andle, and let it dry every time before you rowl it a Second time; then put it into the Yard, let it continue there all Night, and the cext

R Extract. Panchymagog. Crollii, Catholicon. an Di.

Mercur. dulc. gr xviii. Præcipit. alb. rite ppt..

griiit. cum s. q. Ol. Terebinth. ad Mass. ex qua

conficiantur Pilule No. xxx. Dosis XV.

opt. an. 311/s. M. cam to a. Terebinth, Vene These Pills are a Gentle Laxative which correct the Acid and Venerial Ferment; they may be repeated the third Day but no oftener, left you. Throw your Patient into an Unnecessary Salivation of the Chicurgion should always begin this Cure with Purging Medicines of The Italians, Spaniards and Exench commonly Pauge their Phrients five or Six Days without Intermission, but to do it by Degrees in my Opinion is much better. Some will only exhibit a gentle Purge, Swear bin once and then Administer Restringents to stop the Glerra, but this is a Thameful Method of Practile, for hereby they often cause Bules in the Groins, great Swellings and Inflammations in the Tefficles and Milerably Pox their Patients, by stopping the Gleet before the Parts are fufficiently cleanfed and the Caufe Removed. Others immediately Bleed their Patients two or three times, but this is as unfafe as the former and produces yery dangerous Confequences. Some will not purge at all, but pretend to cure it at once by their conceited Arcana's, by which the Credulous are often deluded to their Ruin. The fafeft way as I faid before is to begin with Purging, which pacifies the unnatural Fermentation of the Juices and Tempers their Acrimony. When the Patient has been purged two or three times, and his Body is Tufficiently cleanfed, employ the following Powder to mitigate the Pain in the Brethra and Qualifie the Acid Ferment. T. 18 . 1978 And Down 21

okem ad is Coll ppt. Spodii ppt. Ocul. Canexoru or precellator of the object of the ob

This Powder is to be taken three Nights together. Afterward for Four or Five Mornings let him take Balfam. Copaible gr. wv. in the Yolk of an Egg, and abstaining from Wine or Beer, let him only Drink a good Decoctum Lignorum or Tea or Coffee as often as he pleases.

In ttaly especially upon the Hills near Palermo grows an Herb which the Inhabitants call Sanatodos of which i, or Dis. being taken in Powder is an Excellent Remedy in this Disease, which I have often experienced and a long time used as a great Secret communicated to me in the Year 1679, by Pater Sylvius Bucco of the Cishercian Order and the Learned Botanick Professor to the Grand Duke of Florence. This tamous Herb I used to send for by the way of Milan and Mr. Jacob Pine has often brought it me from thence. Good Diureticks may be also used at any time, among which I recommend the following Pills.

Five or Six of these must be taken every Morning, for they wonder-

fully Temper the Acidity of the humor. The following Pills are adapted to the fame purpole. when a samplished

& Extract. Fumaria, Sabin. Gaiac. a 3ii. Balfam. Perwijan. Ocul. Cancr. Lapid. Chrystal. ppt. aa. 311/s. M. cum s. g. Terebinth. Venet. ad Mass. formentur ex 31 num. v. risi Ferment , they

Five of these Pills must also be taken in the Morning, and every Evening two Spoonfuls of Aqu. Quercitani which ought to be effeemed as one of the best Remedies for the Cure of this Dilease, Tinttura Cochenilla. Tinctura Corallorum rubrorum. Tinctura Cantharidum according to Blankards Preparation, and also Balfam. Succinat. O. Terebineb. are all accounted very proper in this affect. When you find every thing well disposed and clean, then proceed to stop the Running if it does not stay of its own accord; for which the following Pills are Excellent.

Re Extract. Sarfaparille 31. Guiac. rad. China, aa 3iii. Croc. Vitriol. Mart. 3i. Terr. Catechu. Troch. alb. Rhas. aa 3iifs. Mastich. Dorg one tong Gumm. Elemi aa Biss. M.f.c.s. q. Ol. Guiac. 1919 1ud . lla 18 VEW Hold of Pillular. Maffam, Dofis No. vi vel vii. ex 30 and only lautenny ad Di. formentur. xi. Bermentation of the lances and

These Pills must be taken both Morning and Evening, the Patient Drinking after them a good Draught of Aqua Plantaginis, in which is mixed Ocul. Cancror. 3/s. The Patient in the Day time may allo Drink good Emulsions appropriated to the Distemper. If you find it necessary to use Injections to allwage the Pain in making Water, make use of the following.

Be Decoct. Rad. Irid. Flor. cum. Aqu. Plantag. 311/s. Aqu. rad. Althe. 31/s. Aqu. Mellis 3/s. Sacchar, Saturn. 311 Opit purissim. 9/s. M. Calida apple

A good Diet must also be observed, especially abstaining from Wine and all Salt and Sower Aliments during the whole time of Cure. Thus much of a Gonorrhea.

· Sianckerts vulgarly called Shankers are nearly related to a Gonorrhea, and seldom come without many Blisters on the Glans and Swellings, Inflammations and Excessive Pains in the Praputium. These Symptoms if not timely remedied will foon procure further Mischiefs, sters will terminate in Corroding Ulcers; the Praputium and Franulum will Tumify and at length grow Hard, and if the Glans is covered with the Preputium, it's Difficult to come at the Shankers any other way than by Syringing, which without the Application of other Medicines are unfufficient, for the Ulcer will foon rot the part, while it's hid under the welled preputium.

The Caule of these Shankers are a Filthy Venemous Venereal humor fettling betwixt the Glans and the Praputium of a Mans Yard, and in namoWer Six of these must be taken every Morning, forthey wonder-

Women round the Vagina and the Neck of the Matrix, where they

first cause Blifters, and afterwards cause painful Ulcers.

The Cure at first is not very difficult, if undertaken in time; but if The Cure the Patient neglects feeking a Cure, till it's of long continuance, the Ulcer grown large, and the swelled Prapatiam has covered the Glans, then fometimes a good part of the Yard rots away, and the Cure is very difficult. Begin with Purging your Patient sufficiently, and wash the Blifters and Ulcers with the following Water, and over that apply my Lac Aureatum, and you need not doubt of fuccels.

Be Decoct. Veron. & Alchimill. cum. Aq. Plantag. 3vi. Aqu. Mercurial. Fallopii 3ii. Spir. Vini Camphor. 35. Mercur. Sublimat. 35. Tutie ppt. 31. Myrrh. 31. M. f. dilig. Mixt. in loco calido servat. pro usu.

If this should be too sharp, and the Shankers not very contumacious, use the following Mixture.

> Be Agu. Plantag. Mellis aa. 3iiii. Mercurial. 3i. Sacchar. Saturn. 311. Tutia ppt. 3/s. Mercur. dulc. Di. Camphor. in Spir. vin. solut. 3ss. M. detur in Vitr'

But feeing I have met with fome Patients, with whom these Waters would not agree, I have therefore inferted a Liniment to be used instead of them, if such a Case should happen.

> Be Mucilag. Tragacanth. liqu. cum Aqu. Plantag. 311. Tutie ppt. 3/s. Flor. Cinza 311. Lythargir. Cott. O Pulverifat. 3iifs. Mercur. dulc. 3i. Croc. Metallor. Aloes aa. Di. M. f. Linimentum.

This must be spread all over the Shankers; two or three times a day, and over that again my Lac Aureatum, and you will foon find the Cure compleated. The following Unguent is inferior to none of the other Medicines, for with it I have cured feveral Persons, where almost every thing was employed in vain.

Re Unquent, de Lithargyr. cum Ol. Amygd. dulc. falt. Ziii. Lapid. Tutia ppt. Cort. Austr. ppt. aa. 3s. Mercur. dulc. 3ss. Ceruss. Calcin. Zii. M. f. Unguent, The Oyster-shells must be a little calcined, to burn the Sea Salt out of them, or elfe they will do but little good alastra robo in this Cafe.

of the parise to Women and the ad Another Companion of a Gonorrhaa, because every thing now adays must have a French Name, is called a Cordee, perhaps derived from A Cordee what it is. the Latin Chorda, which fignifies the same thing. It's a Disease or Malady incident to the Franulum, the Ligament or Bridle of the Praputium, which if it with the Glans is very much swelled, it fo contracts and thortens the Yard, that it cannot be extended to it's usual length, but the Penis is forced to bend, as a Horses head to the Bridle. Zz

Its Cure.

Its Cure is performed after the fame manner as the former; for a Shanker is feldom or never feen without an Inflammation or Swelling of the Franulum, which in time producing abundance of little Pimples and Blifters upon it, and round the edge of the Praputium, at last grow malignant, and utterly spoil the Franulum. In order to a Cure, hang the Yard often in warm Milk or Tea-water; dabble it very well in the following Water, and over that apply my Lac Aureatum warm with double Linnen Rags.

> Be Ceruff. 3 [s. Alum. ufti 3ifs. Tutie ppt. 3ii. Mercur. præcip. alb. 3/s. Myrrh. Camphor. aa. Dii. M. f. Aqu. f. art. cum Aqua Plantag. & Calcis aa. 3viii. & ferv. ad ufum.

Dr. Blanckard's Liniment I have also often used in this Disease,

R Bol. Armena 3fs. Camphor. 3fs. Tutia ppt. 3ii. Spirit. Vini q. f. M. f. Linimentum.

CHAP. XVIII.

Several other Diseases and Accidents incident to the Privities as Warts, Testiculi Veneris, Buboes and the like, their Cause and Cure.

T's very furprizing to confider the many Accidents and Diseases that happen to these parts; and yet generally speaking, they all proceed from one and the same cause, though they are variously diffinguished one from another; so that if the Chirurgion is not well experienced in them, they will grow fo malignant and corroding, that it will be difficult to put a stop to them; therefore you must neglect no time, for what is once loft can never be reftored.

Warts in the Privities.

The Cure.

Condelomata, Varices, or Warts under the Praputium in Men, and near the Fundament, and in the Privities in Women are very troublefome, for sometimes they will not admit of a Restriction, and in other cases it cannot be done. settion cannot be practiced, because of the Their Caufes. violent bleeding it occasions, nor will they be exterminated by Canteries, for being driven from one place, they will rife again in another-The Acrimony and Acidity of the Matter, which continually flows downwards in a Gonorrhea, first causes a Rawness in the tender Cuticula of the Vaginæ in Women and the adjoining parts, and in the Urethra, and round the Glans in Men, after which Rawnels follows an Exulceration, and then little Excrescences, which getting root, grow into Warts. A Gentlewoman of Note came to me and Dr. Ortob, in October 1685, who was extremely afflicted with these kind of Warts in her Vagina in great numbers, and some very large ones; but outwardly near the Pudenda, where they usually happen, had none at all. They being not to be reached or come at, gave me a great deal of trouble;

but at length applying to them Butyrum Antimonii, it took them all away, without the ule of any other Medicine but a Lixivium, to remove the Pain caused by the Corrosive quality of the other Application, which it did effectually, by often washing the parts with it, presently after they had been touched with the Butter. Nothing will totally eradicate them but Correlives, and though I am fenfible that other Chirurgions make use of different Remedies, as Spir. Nitri, after it has been thickened in a Tin Spoon by Evaporation, Oleum Vitrioli, Ol. Antimonii, Aqua Fortis, and some of Spiritus Sulpburis per Campanum; yet I have had fuch good fuccess in these cases with Butyrum Antimonii, that I prefer it before all others, and accordingly recommend it. But if the Patient is more than ordinarily infected, and there are any apparent Symptoms of the Pox, then you ought to falivate him without delay. When the Corrolives have almost eradicated the large Warts: you must apply the following Mixture, to consume the rest, and prevent their further growings and that a sale field no remoral of noil.

B. Lap. Calaminar. ppt. Tutia ppt. aa. 311. Ceruff. ods of putamin. Cancror. aa. 31. Mercur. Jublimat. 100 mois mir Dii. Bol. Armen. ppt. 3if. M. f. Mixtura. c. f. q. to de al Acet. Vini. moo faile erini b'qqoil anied romeM baqueros

With this Mixture wash the Warts twice a day, and they will soon grow dry and fall off. You may also sometimes make use of my Lac Aureasum, to prevent an Inflammation , but if they grow raw and will not heal, take Tutia, mix it with Aqua Plantaginis, and therewith

daub the parts every two hours.

The Swelled and Indurated Testicles are also Companions and Attendants of a Gonorrhea, but they feldom or never appear but upon a Gonorrhea's being stopp'd too foon. This Affect is called Testiculus Vene- Testiculus reus, or Hernia Veneris, being a true extension of the Spermatick Vef- Venereus. fels, and much the same thing with the Herniz discoursed in Chap. xii. Cataplasms are the most proper Medicines in this Case, of which I have already given you two forts in the twelfth Chapter, which if you make use of with the following Pills, which are to be taken twice a day in a convenient Vehicle, the Swelling will quickly vanish.

B. Terebinth. Cypr. 31. Balfam. Copaiv. de Tolu aa. 3 f. Extract. Sabine, Guiac. aa. Dil. Mercur. dulc. gr. xvi. Troch. de Spodio, Albandal. aa. gr. vii. f. cum f. q. Eff. Fumar. vel Ballam. Peruvian. ad M. Pillularum. Dosis Xi. v. Xii. ex gran. XV. deaurentur.

which I have often uled in

The following Cataplasm I have had such extraordinary success with, that I should be wanting to the Publick if I should conceal it: The Preparation is as follows.

> R Micar. Panis cum Latte Vaccin. Misce ad Cataplasmatis consistentiam, huic admisce Vitell. Ovor. Num. ii. Fac. Vint 3 B. M. f. Catapl. S. art. & calide loco affette applicatur. on mool our son and a sould the me your a ni too Atte. For the first three or four days deek it only with

Observation.

In January 1695, I had a Gentleman in Cure, who had been troubled with this Diftemper above a year, infomuch that he could not ride in a Coach or on Horseback, much less use any other Exercise. He had been all this time under the hands of a conceited Chirurgion, who plyed him with abundance of Outward and Inward Medicines to no purpose, for the Swelling encreased more and more, and the Testicles were grown very hard. However, this Gentleman I perfectly cured in Eight days, without the help of any other Medicine but the Pultiss above prescribed.

Buboes where feated. Bubones Veneris, or Buboes are now so well known, that there are few Chirurgions in City or Country, but have some experience in them. They take up their residence in the Groins and the Glands near the Privities. They begin with a stiffness in that part, proceed to a Swelling, Pain and Inslammation in the part, and at last grow to Putrefaction. Sometimes they only happen on one side, and if the Insection be stronger, on both sides; and that almost in an hour's time.

These Buboes as was said before, commonly proceed from an over hasty stopping a Gonorrhea, and the Ignorance or Carelessness of the Chirurgion, who makes speed to stop the Gleet, without considering the ill consequences that follow their unpremeditated Rashness; for the corrupted Matter being stopp'd in its usual course, forces its way towards the Groins in Buboes, and to the Testicles in the former Distemper, which we call Testiculi Venerei; but other Chirurgions take a better course, in endeavouring as soon as they can to bring the Buboes to Suppuration, in which the following Plaister will greatly affist them.

Recerat. de Galban. Zvii. Emplastr. Diachyl. c. Gumm.
Zvi. Resin. Pin. Cera aa. Ziiiss pulv. rad. Althau,
Farin. Fabar. aa. Zi. Sem. Sinapi, Cumin. aa. Zii.
Cepar. Assatar. Carn. Fic. aa. Ziss. M. f. c. s. q. Ol.
Lini Emplastrum.

This Plaister must be spread thick, and repeated three times a day. But if you had rather make use of a Cataplasm, take the following.

B. Pulv. Malvæ Ziis. Farin. Fabar. Zii. Tritic. Zi. Cepar. assatar. pingu. Fic. aa. Zii. Sem. Sinapi, Lini aa. Zs. Vitell. Ovor. Num. vii. Mell. q. s. fiat Catapl. cum s. q. Decost. rad. Althae calide applicetur.

Licentiate Juncken has given us an excellent Prescription of a Cataplasm, which I have often used in this case with considerable benefit, and is made as followeth.

Be Cepar. sub Ciner. assat. 311. Fic. num. xx. Sem. Sinap. 35. Cumin. 311. Fimi Columbin. 3vi. Croc. Camphor. aa, 91. Mellis q. s. ut siat Catapl.

When the Buboe is come to Maturity, it must be opened with a Lancet in a convenient place; but not too soon, nor make the Orifice too little. For the first three or sour days dress it only with a Tent of dry Lint;

Lint ; but after that time, moisten the Tent with the following Ballam applied warm, and over it lay a good Vulnerary Plaister.

Be Mell. Chelidon. 3ifs. Veron. 3i. Effent. Myrrh. 3i. Oliban. Mastich. as. Diii. Aloes 3i. M. f. diligen. Back, which not without abundance of trouble and Ballam.

This Balfam you must use while any Corruption is remaining, and when you find all clean, employ the following to Incarnate and Cicatrize. or see place where the Ribs errow outward, raking care to szirize

Child always in fach a pofture, that the Arm on that lide may not lise Be Terebinth. Cypr. Biiii. Vitell. Ovor. num. iii. Pulv. Oliban. Mastich. aa. 3ifs. Myrrh. Sarcosoll. aa. 3ii. Croc. am all ad Dill. Terr. Sigillat. 3ifs. M. f. Balfamus. 1 de dinne midt.

growing outward, w But some of these Buboes are so malignant and venemous, that they will not be cleanfed, and though the hole is never fo fmall, it ftill grows wider, and the fides very uneven and bunchy, and will not be remedied but by cutting with Sciffors, and the application of that Fistula Balsam of mine which is mixed with Oil of Tobacco: Nor need you fear to make two or three good Incisions in convenient places, as the only way to bring these Buboes to healing.

Ulcers and Blotches which often happen in the Privities of Men and Women, are cured by the application of mollifying and drawing Plaisters, to make the Scabs fall off and draw out the Corruption, if there be any in them, and afterwards washing them with the following

Water.

B. Lixiv. Calc. Viv. 3viii. Aq. Mercurial. Fallopii 3iiii/ Geruff. Tutie aa. 3/s. Sacchar. Alumin. 3ii. Mercur. Sublimat. 31. Campb. in Spir. vin. Solut. 35s. M. diger. in loco calid. & ferv. ad ujum.

Having continued this course for some days together, if you find every thing dry, and only some Scales remaining, apply the following Liniment to drive them all away. and but and the finings one and high Hip: This Accidencievery hard to be remeated in Children

Be Unquent. Lithargyr. cum Ol. Amygd. dulc. fast. Biiifs. Flor. Cinza, Tutie ppt. aa. 3/s. Mercur. duleis, Croc. Metallor. aa. 3/s. M. f. Linimentum. donod son grinnom on the other fide a Crane, which gently afterches the Limbs, while

Method generally face, XIX, P. H. A. P. Wicheld generally face, XIX

but the number of those are very lower for having been ence upon in High Hips and Shoulders, Crooked Ribs, Diflocated Vertebra, how they may be remedied, and Hump-backs prevented.

of fuch as have fuffered is no decorprisentite. Ibs bended outwards, by which the Blade-bone of the Shoulder is High Shoult thrust up, often happens to Children when they are young and ders, their feeble. This fault is not always to be afcribed to the Spine, though if Caufes and

High Hips, their Canfes it be not remedied in time, the Ribs will grow still more crooked, and the Epiphyles Costarum being drawn by degrees from the Spendyle, it leaves a space in which a Callus settles, or elle the Vertebræ following the Ribs bend also towards them, and though they don't wholly remove out of their foints, yet they cause a Cyphosis, a hunched or crooked Back, which not without abundance of trouble can be brought into a

strait Line again.

olf the Chirurgion is called in time to fuch a Patient, he must fwathe the Child with a good Roller, and apply two or three good Bolfters upon the place where the Ribs grow outward, taking care to lay the Child always in such a posture, that the Arm on that side may not lie backward, or bend the Shoulder outwards; but if this method will not prevail, you must cause a piece of Lead to be beaten indifferent thin, exactly of the same bigness and shape of the part where the Ribs are growing outward, which must be sewed to the Roller or Girdle, and bound falt upon the part affected; the whole Back being first well anointed with proper Nerve Ointments, and the following Plainter spread upon Leather, and laid upon the Bunch, which if punctually observed, will accomplish your Desires. All when we had believed flois fishere of mine which is mixed with Oil of Tobacco to Nor need you-

od so soo B ol, Olivar. thin. Lithargyr. this. virid. eris 3i. ad rectam consistentiam Emplastri coquantur, ban com to de postea admisceantur sequent. Cera thi. Magnet. -in saim ppt. 31. Ariflot. long. 311. Maftich. Myrrh. aa. 3fs. www oroda il noi Succin. Bifs. Oliban. Bill. Sperm. Ceti 31fs. Gamm. 21911 nimolol a Ammon. Bdellis aa. 31. Mifce f. diligenter ad Empl. confifent.

High Hips, their Caufes and Cure.

This Affect quite differs from the former, though no Luxation intervene, being only a small moving of the Hip-bone upward, especially the Os Ilium, which too common happens among Children, and may eafily be canfed by a hard, lumpy, uneven Bed, a Fall, a Blow, and a thousand other unforeseen Accidents, which the fost and tender Bones of Infants are subject to. This Accident is seldom perceived in Children till they begin to go, and then you may fee them roll, and fall continually from one fide to the other, and to help themselves they put their Knees one against another, and the weaker side giving way, causes a This Accident is very hard to be remedied in Children, for Medicines will have very little Affect, and a Gloffocomium is too much for Children to endure; but if they are at Maturity, bring them every morning to a Bench, which on one fide has a Windlass or Wheel, and on the other side a Crane, which gently stretches the Limbs, while with your Hands you may put every part into its proper place, and continue the Extension as long as the Patient is able to endure it. Method generally fucceeds in all that are willing and able to fuffer it 5 but the number of those are very few, for having been once upon it, they can feldom be perswaded to suffer it a second time, but rather chule to retain their Deformity, than be freed from it by such an uneafie process. The forementioned Plaister may be applied over the whole Hip of fuch as have fuffer'd it, to strengthen the part, and prepare them for the Gloffocomium. nod obsid on don't

A Cyphosis or Bunch-back, is generally a Dislocation of the Spina Dorsi, or Hump or a Luxation of its Vertebre, and is not always prefently perceived; efpe-Ciaily

Obfervation.

cially if the Diflocation happens gradually by a Relaxation of the Ligamenta Vertebrarum; but if it comes by a Fall, a Blow or the like momentaneous Accident, it's foon perceived, for the Patient cannot stand upright, and the fault is Autopsie. If this Accident is not speedily remedied in Children, they will foon be crooked back'd, the Breast will grow outward, for the Sternum must give way to the Ribs when they prefs forward, and fo the Patient grows more and more deformed and miserable. It also happens very often that this Disease is hereditary, which may very well be, if an Excess of humors particularly oppress the Sinews thereabouts, and to occasion a great weakness in the Nerves and Ligaments, which joining with the propenfity of Nature for like to produce its like, may contribute to the production of a cypholis or Hump-back. Many I know deny this Affect to be hereditary, because fay they it is always accidental, but I am convinced to the contrary; for I knew a great Man in Halberstadt, who was Hump-back'd, and having Five Children, they all took after the Father, and though nothing was unattempted to reclifie that diforder, yet all was ineffectual, except on the youngest Son I. D. who willingly submitting to every thing, I fet him strait with the Gloffocomium and a good pair of Stays.

You must also observe, that the Vertebre do not always dislocate and move one and the same way; for sometimes they move inwardly, and then they are not only incurable, but mortal: Sometimes sideways, but that is very seldom; but it very often happens, that the spondyle (or turning Joints of the Back-bone) move outwards, by reason of the Laxity of the Ligaments which tye those Vertebre together, and the Lympha settling thereabouts in great quantities, so dilates the Tubuli, that the Spondyles separating from one another, causes such a Dislo-

Cation.

If the Chirurgion be confulted at first, before the Callus is firmly fettled, there is a possibility of helping the Patient; but if it be of long continuance, it is better not to attempt it, than trouble your felf and your Patient to no purpole, for nothing will prevail. There are two methods of Cure, where there is any hopes of it, the old and the new manner. The Antients prescribe the Patient to be laid on his Belly upon a Table, and Towels fastened about the Body, under the Arms, and round the Thighs and Knees, which the Affiftants to the Chirurgion must pull very hard both ways, to extend the Back as much as is possible, which has some reason in it; but I never knew Paraus's two pieces of Wood, or Hippocrates's Bench give any relief to the Patient, If the Extension succeeds, and with your Hand you have reduced the d flocated Vertebre into their right places: Then immediately apply a proper Plaister to it, that will not raise Blisters or Pimples, and over i that fine Linnen Rags; over them again apply near wooden Splints or plates of Lead proportioned to the place, and over all Linnen Bolfers, moiltened in warm Wine-vinegar. This being done, bind up all very tire, and if it be possible, let the Patient lie in this manner in his Bed, upon his Belly three or four days, except the time when he cats and drinks, at his Meals, and thus continue for Five or Six weeks, looking after all every Four, Five or Six days, as you find it necessary.

The new way is much easier and better; make a broad Ligature of strong Leather, with holes to put the Patients Arms through, and wide enough to encompass the whole Breast, under the Arms lay thick Bolsters.

vid. Tab. 5. fig. 10.

Bolfters, that the Leather may not hurt the Patient in the Extension. About the Lower Belly and Thighs make fuch another, which must be fastened to the lower end of the Gloffocomium; * and that which goes round the Arms must be fastened to the Beam; then order your Affistants at once to pull gently, to extend the Spine, which is easily performed in this manner, because the spondiles are so far from one another, that they will soon be brought into their right places; which being done, loofen the Extension a little, and apply the Plaister, Plates, Bandage and Bolsters as above directed. When the Vertebra are reduced, I commonly wash the Patient's whole Back with the following Spirit, to strengthen the Nerves, and prevent any ill Accident, caused by the violence of the Extension.

Be Spirit. Lumbricor. compos. Formicar. aa. 3is. Aqu. Apoplett. 3ii. Spir. flor. Lavendul. Rosmarin. aa. 31. Juniper. flor. Sambuc. aa. 31s. Effent. Cafter. 3/s. Opii 9/s. M. f. Mixtura.

This being very well chafed in, I apply over it the following Plaifler, and continue this course till all the danger is past.

Be Emplastr. Nervin. Vigon. de Sperm. Ceti aa. Zvi. Cera Biiii. Succin. Bi. Ol. Lavendul. Nuc. Mosch t. as. 3i. Mastich. Oliban. Myrrh. as. 3is. Castor. 35. old bas ol. Succin. Bii. f. c. f. q. Colophon, ad Empl. formam.

Observation. In July 1690, A certain Nobleman of wohlaw, about Nineteen years of Age, put himself into my hands, for the Cure of such a Diffecation. He had been above Six months under the hands of a Hangman's Wife at Wintzig, who was mightily cry'd up for the Cure of this Infirmity , but this I was unacquainted with, till some time after I had him in Cure. A little below the Shoulders, Four spondiles were diflocated to fuch a degree, that you might move them backwards and forwards, and the furthermost process of the Vertebra, had by degrees pierced its way thro' the Skin, and made an Orifice as broad as a Shilling. The Patient was strangely emaciated and feeble; for the Woman had kept his Lordship to a very Spare Diet, and he lay day and night in a pair of stiff Whale-bone Stays, very titely laced together, which had so squeezed him, being a tender young Man, that his Life was a Burden to him. Affoon as he came to me, I prefently threw away all the Rags and things that were about it, and gave him leave to rest and lie easie for Eight days, without doing any thing to him, that he might gather a little Strength. When I searched the part, I found what I thought very wonderful, viz. that there was no Callus fettled between the Bones, and therefore I gave him Eight days time more, and order'd him the best of Victuals and Drink. Being thus refreshed, I undertook the Restoration of the Spine in the Presence of Dr. Tielische, after the new method above mentioned. The Wound was a great hindrance to me, but I was not much concern'd about that, my great Care being how to restore the Vertebra, which at length was done, in the method above prescribed, and in Eight weeks time the Patient was fully restored to his former health and straitness, and went from me with great satisfaction. CHAP.

CHAP. XX.

Of the Hamorrhoides and the ill Consequences that attend them, with the Method of Preventing and Curing them.

LL Chirurgions know that the Hemorrhoides are scituated near the Hemorrhoi-Fundament, that several Persons are extreamly troubled with des, their Cauthem Spring and Fall, and fuffer abundance of Pain and intolerable fes. Heat in that part; and that if they are not timely remedied, they will produce Ulcers, Fistula's, &c. The Cause of this Disease, is generally attributed to the ill Constitution of the Blood, the thicker part whereof being unable to circulate through those Urins, it Stagnates, becomes Acrid, extends and dilates the Veins, causes Extraordinary Burning and Pain, till by breaking the Thin and Tender Cuticula of the Hamorrhoides it finds a Passage out. Some Persons have them once a Month or Six Weeks, without any Confiderable Molestation, because their Veins sooner open, than others that have them but once or twice a Year; nay some will not break at all, and are forced to be opened with Leeches or a Lancet, to Discharge the Thick and Acrid Blood contained in the Veffels and prevent Imposthumations and other unhappy Accidents. They happen oftenest in such Persons as are given much to fitting, and those that are very Costive and Strain hard to expel their Excrements when they go to Stool; for by that Means the Blood is more press'd to those parts and has Time and Liberty to settle there. However if this Bleeding of the Hamorrhoides does not happen too often nor flow too much at a Time but moderately, it's rather a Benefit than an Injury; but if too much, it not only Weakens the Patient, but in time will grow to Malignant Ulcers and Fiftula's, and very often cause a Dropsy.

There are two kinds of Hamorrhoides, those that are Open, which are called true ones, and Hamorrhoides Caca or Blind ones, which rife them. in great Bumps, cause great Pain and Burning, and if they are opened contain nothing but a small Quantity of a thinn Matter, and therefore are called Blind or False Hæmorrhoides. Sometimes they rise like Warts and little Boils, and you must take care to Distinguish one fort from the other, lest your Mistake should run you into a dangerous Error; as it happened to a Comb-maker in this Town, who being troubled with the Blind Hæmorrhoides, a Chirurgion tyed them with a double Thread, (as you do with Warts) to make them fall off, which cast the Patient into such a violent Pain and Torture attended with Convulfions, as can hardly be expressed; insomuch that when I had took away the Tyes and loofened the Thread, it cost no little Care and Pains to

fet him right again.

To ease the Pain and allay the Heat in this Distemper, make use of The Care. the following Liniment, which will answer your Intentions, and yet not hinder the Ill Blood from Issuing out, if they are running at the same time. It must be spread Thick upon a Linnen Rag and applyed to the part affected.

R. Unquent. de Lythargyr. cum Ol. Amygdal dulc. fact. Ziiis. Tutia ppt. 3ss. Pulv. Herb. Filicis Jeu Linaria 3111 M. f. Linimentum.

The Fat of an Eel, mixed with a little Ceruss and Tutty, is also an effectual Remedy in this Disease: And so is the following Unquent recommended by Dr. Blanckard.

> B. Ol. Rofar. 3ii. Croc. Di Ceruff. 3i. Lithargyr. 3 s. Cera q. s. f. Unquent.

In the Camp I only used the White of an Egg mixed with Oil, and Alum and it generally had fuccess; but if they should not prevail and the Pain still encreaseth, use the following Liniment Warm, and it will certainly accomplish your Wishes.

> Re Mucilag. Sem. Cydonior. 31. Ol. Amygdal. dulc. Bifs. Vitell. Ovor. num. iii. Oliban. Sarcocoll. aa. 3i. Croc. Opii. pur. aa. Dilli. M. f. Liniment.

Ulcers and caufed.

How diftin-guished.

Ulcers and Fistula's are also Attendants on the Hamorrhoides, when Fiftula's how they are too violently and fuddenly stopped while they are running, or if too cooling Medicines have been applyed, which causes the Blood to Stagnate and Putrify; the Humors foon grow Acrid by thickning and want of Motion, and in time Eat through the space between the serotum and Anus, and grow into true Fistula's. These Ulcers must be distinguished according to their Scituation. If they have not touched the Sphincter Muscle, 'tis not so dangerous, but if that Muscle is already ulcerated, which you may perceive by the Matter or the help of a Speculum Ani, then it will be Difficult to Cure, and much worse if the Rectum is also pierced through; for then it is almost incurable, for the part being always Moist, Medicines can not be so efficacious as if the Malady was in another place. They are very often caused by Venereal Distempers, sometimes by outward Accidents and Violent Exercises, How Cured. but generally they proceed from the Hæmorrhoides. The Cure is very Difficult, because outward Applications cannot perform their Offices ; Plasters cannot stick where the part is Moist, and Bandages will signify little where the Part is round and always in Motion. However if you are resolved to try; begin the cure by giving the Patient a good Decoctum Lignorum for his common Drink, and give him every Morning and Evening Three or Four Ounces of the following Decoction very Warm.

> Be Fol. Sanicul. Alchimil. Veron. Aristoloch. long. aa Mii. Beta rubr. con fol. Sarac. aa Mi. rad. Serpentar. Tormentil. Confolid. maj. Aristol. long. da. 31/s. Flor. Rofar 31. Cort. rad. Fraxin. 3 vi. Cort. lign. Sambuc. 3 s. Incidentur contundantur groffe 6. s. q. Aq. Pluvialis bulliantur s. a. postea Colatura addantur Oculer. Cancr. Spermat. Ceti aa. 311. Misce.

The following Ballam being very cleanling and healing must be applyed to the Ulcer Warm, which truly is an admirable Medicine in all Malignant filthy Ulcers, especially the Oleum & Cortice Betule, which is to be wished, that it were better known and oftner used in Chirurgery, being an incomparable Remedy in these cases, yea also in a Cancer and a Noli me tangere. Dr. Graffen and my felf have lately used it with wonderful Succeis.

> Ik Mell, Tabaci, Chelidon, aa. 31, Balfam Copaiba 3vi. Terebinth. Bis. Vitell. Ovor. numii. Ol. & Cort. Betula 311. Effent. Myrrh. 31. M.f. dilig. ad Balfam.

Over this Balfam apply a good Oppodeldoch Plaister; but if the Ulcer is very deep inwardly, then before you dress it throw in the following Injection.

> Re Decoet. Alchimil. & rad. Serpentar. aa. 3vi. Mell. Perficar. Veron. as. 3111. Sacchar. Saturn. 31/s. Alumin. Dil. Aloes 3 [s. Sarcocolle 31. M.f. Injectio.

When the Ulcer is very Clean and begins to Heal, then instead of the former Balfam use the following Unguent.

> B. Terebinth. puris. 3v. Balfam. Peruvian. 3ii. Mell. Veron. 3ifs. Mastich. Myrrh. aa. 3i. Croc. Diifs. M. f. Ungu. this Unguent is more proper to Incarnate than the Balfam.

From these Ulcers I proceed to Fiftula's of the Hamorrhoides, about which a Chirurgion's first Work is to make diligent enquiry, whether they proceed from a Venereal cause or not? How far they reach, upon what parts; how they are feated, and whether they have one or more Openings? For without a distinct Knowledge of these particulars, the Patient can never be cured. The Cure is always difficult, and fometimes impossible; but if you have any hopes, use the Medicines prescribed in the Sixteenth Chapter, for better cannot be prescribed. Dr. Muraltus is of opinion, that neither External nor Internal Medicines can fignifie any thing in thefe Fiftula's, and that nothing will prevail but Cutting, Restringing or Burning; but by his pardon, I have experienced the contrary, where good Medicines alone have done the Work, as I could instance in three several Persons, two in Halberstadt, and one in Magdeburg, who were all cured; therefore when a Chirurgion is advised with in this Disease, I think it better to try Medicines in the first place, before he proceeds to Manual Operation, but if at last he is forced to it, he will find sufficient directions how to perform it artificially in the Sixteenth Chapter, and if any thing elfe be wanting conducing to this Cure, he may fee it in the following Observation.

In the year 1681, Dr. schwelling and my felf were fent for to John N. Observation. a Merchant in Magdeburg, who had been three years tormented with fuch a Fiftula, which went into the great Gur. He was about Thirty nine years of Age, and had used a great number of Chirurgions, with-

out receiving any benefit by their Endeavours. Enquiring into the state of the Fiscula, we found two Orifices outwardly, which went above three Inches deep into the great Gut. The third day I cut both the holes into one, and having Syringed it very well, I applyed the following Powder to it twice a day, to procure a good foundation towards the Intestinum Restum, which succeeded very well.

Be Pulv. Tragacanth. Sarcocol. aa. 35s. Rad. Aristol. long. 3ii. Myrrh. Sacchar. Saturn. aa. Diiss. M. f. ad subtiliss. pulv.

I never fail to apply this Powder, where I find the Guts are Ulcerated or Fistulous, the following Water being first injected warm; and truly I can assure you, it has always done me great service, being an admirable Detersive, and also makes the Powder stick longer and closer to the Gut.

B. Decoet. Alchimil. cum Agu. rad. Consolid. maj. Ziiii. Essent. Myrrh. Sacchar. Saturn. aa. Zi. Opit pur. Diiss. Aloes, Oliban. aa. Di. Spir. vini Camphorat. Ziss. M. f. Injectio.

Pursuing this method, in three weeks time I laid a good foundation, every thing began to heal, the holes in the great Gut closed up wonderfully, and in Eight weeks time he was perfectly cured.

CHAP. XXI.

Several Diseases and Accidents in the Genital Parts of the Female Sex.

Aving already in the Seventeenth and Eighteenth foregoing Chapters treated of Ulcers, Condylomata, and such like Accidents sometimes happening to the Private parts of Women, I will now consider the Induration, swelling and falling down of the Womb: Also Cancers, Tumors, Inflammations, Dead Children in the Womb, Fluor albus, Hurts, and in the last place Blisters, Wheales and other Infirmities incident to those Secret parts.

An Indurated Uterus. The Induration and Swelling of the Uterus, is at first but an Extenfion or a kind of Tumefaction of the part, occasioned by hard Labour in
Child-bearing, or the Unskilfulness and Barbarity of the Midwise, in
violently tearing away the Secundine, which causes an Inflammation,
then a Swelling, and if not timely prevented an Induration and excessive
Pain, which accompanies some Women to their Graves; of which Manriseau and Paraus gives you some remarkable Instances, in Women that
have been opened, who had such Indurated and Schirrous Wombs, as
was to the Admiration of all that were privy to the Dissection.

Francis Mauricean is of opinion, that besides the causes already as-

Its Caufes.

figned.

figned, this Malady often comes by a superfluity of Humors overcharging the Uterm, and obstructing the Vessels through which those Liquids should pass, which first caused an Inflammation, and then an Induration of the Uterus. Cofmus de Viazdel, Dr. welfb and others, ascribe it, to the Midwife's applying too cooling and reftringent Medicines to the Lower Belly, after hard Labour: A diforderly Diet: Obstruction of the Monthly Purgations: Using too many Repellents in an Inflammation, or an excels of Relotvents to a Tumified Belly; for thereby the thinner part of the humor evaporates, and the more Crass remains behind, and causes this Hardening of the Womb, of which see Riverius Cen. 1. Observ. 28. where he relates a remarkable Instance agreeable to what we have been discourfing.

In undertaking the Cure of this Diftemper, begin with a good Diet, Its Cure frequent Bathing in a Bannio, and the application of Emollient Medicines. These things being premised; use every day good Injections and Fumigations, but take care they are fuch as are not Restringent, or have any Acrimony in them. The following Plaister I have always applied with good fuccels, after Emollients had been used over the whole

Lower Belly, for it mollifies and takes away the Hardness.

Re Emplastr. Diaphoret. Myn . 151. Gumm. Ammon. Galban. in Spir. Vini folut. aa. 31. Baellii 311. pulv. rad. Brionii 3 [s. pingued. irin. gallin. aa. q. f. Cera Billi. M. f. Emplastrum.

This Plaister being spread upon Leather, must be applyed to the part, and continued as long as is necessary. The Fumigation is made in this manner:

> B Flor. Rofar. Millefol. Calendul. Cyan. aa. 3ii. Fol. Satureje, parietar. Malve, as. Ms. Succin. Oliban. Mastich. as. 3/s. Lapid. Pyritis 31. Misce fiat pulvis groff. mod.

This Powder must be strewed upon a Fire in a Chaffing-dish, that the Smoak may come round the whole Belly. The Injection follows:

> Re Fol. Alchimill. Veron. Con olid. maj. as. Mj. Flor. Rofar. Malv. as. pug. ii. rad. Althea, ireos flor. Lilior. albor. aa. 3iii. Sem. Carvi Bis. Lini Bil. rad. China, Sarfa parille aa. 311fs. [cind. & contund. grosse coquanturg; s. a. aqu. Communis f. d. Colature Miii. adde Mell. Veronica 3/s. Esfent. Myrrh. Dii. M. f. Injectio. And lo much for this Difease.

Prolapfus Uterinus, the falling down of the Womb, fometimes called a Rupture of the Uterus, is a troublesom Distemper, which creates of the Womb. abundance of Vexation to the Patient and the Chirurgion. Ruisch in his curious Observations, tells us of a prodigious large Prolapsus of the ccc Userns

The Caufe.

Uterus, which was grown quite Schirrous, and with its Orifice hung wholly out of the Pudenda. The Cause is generally too great a quantity of Watry Humors fettling thereabouts, hard Labour, violent Exercife or the like; which weakening the Ligaments and Membranes of the Uterus and Vagina, hangs forwards out of the Pudenda, and sometimes they are broke and torn, and then it looks like a piece of Raw Flesh or a Man's Scrotum.

In March 1685, I had a Wax Chandlers Wife in Cure of about 49 years of Age, who was troubled with a prodigious Prolap [usUterinus, which hung out of the Body, and was as big as a lufty Man's Head; yet the Orificium Matricis being at the bottom, it gave a passage to the Monthly Purgaand at tions. She endured abundance of Pain and Milery, kept her Bed continually, and the Prolapfus had fo largely extended the Pudenda and its Labia, that the was scarce able to Urine. But more remarkable was the Case of Maria N. a Maiden Gentlewoman about 15 years of Age. whom I, Dr. Paulus and Mr. Hane had in Cure; whose Prolapsus was as big as a large Apple, and had so stopped up the Pudenda, that we could not move it; which was a very strange Accident in so young and tender a Creature as the was, AChirurgion whose Advice was asked before us, faid it was an Aqueous Tumor, and would have opened it; but her Relations not confenting to it, they fent for us, and we undertaking the Cure, happily performed it in a few Weeks. The like Success I had with the Chandler's Wife, whole Uterus was brought up again, and afterwards kept up with a proper Instrument, till the Cure was perfected.

The Cure.

The Cure of this Disease you see, consists chiefly in two things first, that what is fallen down may be put up again into its place : and fecondly, that it may be kept there without danger of falling down again; which must be by strengthening and comforting the part. To perform the first Intention, place the Woman in fuch a Posture as her Head and Body may lie low, her Thighs high, and her Legs afunder. Then bathe the Prolapfus very well with warm Milk, and when the parts are very well warmed and mollified, wipe off the Wetness, and with your Forefingers, and the help of a fine Linnen Handkerchief, crush it up gently and gradually, till you have brought it into its place again. But if it be fo much swelled that it will not go up at the first Trial; give your Patient a Clyster; foment it somwhat a longer time than you did before; then make another Effay, and so continue till you have performed it. This being done, let the Patient lie with her Legs across for two or three hours, and with her Hands let her gently press her Belly and Vagina, to prevent its falling down again, Then endeavour to put up a Peffary made of Lint dipped in Wax, and proportioned in bigness to the Vagina; for the first Eight days, there is no necessity of making it hollow. After that time they may be made of Cork, Beaten Silver, or any light matter accommodated to the Vagina. They must be made hollow, in the form of a Circle, or otherwise as the Chirurgion shall think most proper to keep up the Womb, and give a paffage to the Courses: Let the matter of which they are made be what it will, they ought to be covered with Wax, for then they will flick the faster, and not occasion any Soreness or Rawnels. Of these Pessaries it will be necessary that you should al-

REWITTOUS Observations, tells us of a prodigious large Prolapses of the

STREETHE

ways have two or Three in readiness, that they may be clean, when

you think fit to change them.

A Cancer in the Uterns is one of the worst of Diseases, and requires A Cancer in great time and pains to understand what is to be done, when such a the Wombs difficult Case comes under ones hands to be cured. At first it's only a Tumor and Inflammation, which hardens in time to a Schirrus, and then degenerates to a Cancer, which might have been prevented at first, by the method directed in the beginning of this Chapter. These Cancers are not only in the Matrix, but seize also upon its Orifice and Vagina, as may be seen by the application of the Speculum Uterinum.

The Cure of Cancers by Medicines, especially if they are Ulcerated, are generally thought impracticable, because they cannot be brought exactly to the part affected, and if it could, the continual moissness of the place will not suffer them to stick long enough to produce any essect, and the Chirurgion at last must take resuge in undertying and cutting it away, if it be possible to be performed; because no other method will admit of any kind of certainty; And indeed it's much to be feared, whether this will be worth the while or no; or whether it would not be better only to make use of Anodines, and such other Medicines as will hinder Putresaction and make the Patient easie; which if you are enclined to practice, that your Patient may not be destitute of any kind of help; then inject the following Balsam twice a day into the part, which will not only ease the Pain, but perhaps in time mend it beyond expectation.

Succ. Cancror. inspiss. 3iii. Balsam. Peravian.

I have often experienced this Balfam in fuch cases with good effect.

It must be always used warm, and intermixed with the following, proportionably to the emergency of the cause.

B. Decott. Veron. & Sem. Hyosc. & Coriandr. cum

Aqu. Horder 3xx. Sacchar. Saturn. 3iii. Essent.

Myrrh. Opii, aa. 9ss. Succ. Plantag. inspiss. M.f. Injectio.

Take as much of this Water as is necessary to inject at one time, and mix with it as much of the Balsam as will lie upon the point of a Knife. If there is an Inflammation and no other means used to prevent it, but the too cooling Medicines of an Igneramus; which destroyed the few Vital Spirits that were labouring in those parts, then it turns into a Gangrene, and afterwards into a Sphacelas or Mertification of the part. If you think there is hopes, and are resolved to attempt the Cure of these sad Accidents, you will find plenty of Medicines in the Third Book, in the Chapter which treats of the Gangrana and Sphacelus, to which I refer you. In the mean time I will accommodate you with an Epithema, very proper in this affect; which may either be injected, or Linnen Rags moistened in it, and applied to the parts affected.

Be Fol. Alchimil. Savine, Scordii, Charefot. aa. Mi. O rad. Aristoloch. long. 31. Flor. Sambuc. 3v.

Ceruff. Bol. Alb. aa. 31. Tutie ppt. 3vi. Alum. ufti, Vitriol. alb. aa. 3i. Myrrh. Oliban. aa. 3ii. coque in Aqu. Calcis Hiii. & Aqu. Flor. Sambuc. thii. sapius agitando per hor. unam; Colatura adde Spir. Vini Camphorat. 31111fs. Misce dilig. Das James f. ad ujum, al embant rand inflammation, which

A Mole in the Womb.

A Mole or Tumor growing in the womb, is nothing else but a piece of Flesh proceeding out of corrupted Sperm, or resention of the Monthly Evacuations, of which the ill Constitution and cold Temperament of the Uteras is often the occasion. Cosmus de Viazdel is of opinion, that this præternatural Tumor, arose only from a mixture of Female Sperm and their Menstruous Blood, without the addition of any Male Seed : But Franciscus Mauricean denies it, and says no Woman could ingender a Mole, without a mixture both of Male or Female Seed, which are as effentially necessary to the production of a Mole, as of a genuine Conception: And though fuch Moles are fometimes found in unmarried Women, yet if you frictly examine them, they are nothing but a Lump of coagulated Blood, condenfed by the internal heat of the

The Cure. This Difease is cured with such Medicines as provoke and expel the Terms and Secundine, and the' fome pretend to cure it by Adstringing

and Cutting, I know not how they can perform it.

Fluor albus.

and Effects.

Fluor albus or the whites in Women, is a continual Flux of a Viscous or clammy white humor proceeding from the Matrix, and is distinguished from the Matter in an Ulcer, because that has a noisom Smell, causes Pain, and the Patient has no inclination to Carnal Copulation : but in the Whites there is no ill Smell or Pain, and the Female has ve-The Causes hement desires of Coition. The Causes of this affect are generally a Vifcous and Glutinous Blood, and an Obstruction of the Glands in the Uterus and Vagina. If it's not of long continuance it may be easily cured; but if the contrary, it is tedious, difficult, and sometimes incurable; and then it causes Barrenness, the Dropsie, Ulcerates the parts, and finks the Patient at last into a Consumption. Tis a noisom and wretched Diftemper in Women, and a plague and vexation to Men, who must either forbear Coition, or exercise it with loathsomness and abhorrence. Lazy, tender Women, who are full of gross humors and very subject to take cold, are most tormented with this filthy Distemper.

The Cure. The Cure must commence with Rarifying and Mundifying Medicines among which the following Infusion is interior to none.

> too cooling Medicines of an Lourannes while B. Pol. Meliff. Veron. Menth. aa. Mfs. Summit. Artemiss. Absinth, Rorismarin, aa. Mi. Mechoac, El. Rhabarb. Ver. aa. 3/s. Fol. Senne 3ifs. a laint world Sem. Anifi, Fanicul. aa. 31. rad. Jalapp. Sal. vel Chrystal. Tartar. aa. 3v. Sal. Menth.) Meliff. aa. 3ii. Misce scind. & contund. gr. modo. Infundanturque in vini generols Mensur. 111. per 4 aut 5 dies, jerv. ad ujum.

Of this Infusion give the Patient three, four or five Ounces every Morning, according as you find it operate downward. Let her also drink

drink a good Decoction of Sarsaparilla, &c. and every day take five or fix of the following Pills.

> B. Extract. Guiac. 3/s. Balfam. Copaibe 3ii. Terr. Catechu. Biiis. Ocul. Cancr. Bis. Oliban. Mastich. an. 3i. Mercur. dulcis Bii. M. f. pulvis, & cum Terebintbina Masa Pillularum dof. gr. xv. If you want others, look into the Chapter where I treat of a Gonorrhea, for what is fit for the one, is also generally proper for the other Disease.

CHAP. XXII.

Of a Lues Venerea or the French Pox, with its Diagnosticks, Causes and Cure, especially by Salivation, internally or externally raised.

Hough I have discoursed of this Disease in a particular Treatise, yet I could not think this Work so compleat as it ought to be, without giving a full account of it in all its various Appearances, it being a Difease of which one cannot say too much, because such numbers of Persons are infected with it, and that it often sculks under other denominations, to the ruin of many Patients, that if it had been known might have been cured by Salivation. It would be but loft time to thew how and where it began, and the feveral Advances it has made in later times; therefore I shall proceed to acquaint the Chirurgion, with what is more necessary for him to know, viz. the Causes, Diagnoflicks, Differences, and other Circumstances of this venemous and de-

sperate Disease.

Now, though some Persons have been infected with it, only by Cause of the drinking after such as have been tainted; by lying in the same Bed, or Pox. as others affirm, by the power of Imagination, yet whoring is the principal Cause; to which an over hasty stopping a Gonorrhea does not a little contribute; for it nurses up the Disease in the Body, instead of expelling the Contagion. The Signs of its Approach and Increase, are symptoms. fometimes an Itch, running and spreading Tetters and Blotches in several parts; the Seurvy, a fore Throat, perhaps Ulcerated; Ulcers and Nodes upon the Head, breakings out in the Face, and intolerable Itching and Heat in the Privities, which in time break out into filthy ulcers. This Disease as I have said already, proceeds from Immoderation in Venery and Copulation, with infected and unclean Persons. First, this Venom feizes on the Yard, and infinuates its Poison into the dilated Pori, then breaks out into a Gonorrhes, attended with violent heat and pain in making water, and by degrees railes a Swelling, an Inflammation, Rawnels, Blifters and Ulcers in the Privities, which if neglected, or the Patient, falls into unskilful hands, the Juices are infected; the Blood, Lympha and Succus Nutritius become Acid and Acrid, and growing thick, not only obstructs the Glands, Muscles and tender ddd

parts, but also corrupts the Nerves, Bones and Ligaments. I say this venom consists of Acid and Acrid particles, which first possesses the Glands of the Privities in Men and Women, and after Coition when the Pores are closed, intermixes with the Sanative Juices thereabouts, and in a few days, raises a Fermentation that produces a Gonorthea. But if this Venom is not powerful enough to put the circulating Juices to a stand, and raise a Fermentation to soon, then it spreads further into the neighbouring parts, yea, through the whole Body, causing many ill Accidents, and at length a perfect Pox.

O,her Signs.

There are other Symptoms of this Disease, as a Pale Face, a Sallow Wan Complexion, great Pains in the Head, Aches in the Limbs, chiefly between the Shoulders, and along the Shin-bones, which are more apparent and troublesome in the Night than by Day, insomuch that the Patient is utterly deprived of his Rest, and is wearisome and uneasse in all his Labours and Exercises. Now if all these Symptoms concur with those abovementioned, as a Sore Throat, Blotches in the Face, Ulcers in the Privities, Buboes and a Gonorrhea, you may certainly conclude that your Patient is Pex'd, and the Disease is at the height; for these Signs are manifest Declarations of what Pond he has been fishing in, though his own Confession is also necessary to a more speedy and solemn Cure.

The Cure by Unction.

The Methods of Cure are various, for every one has some particular Nostrum that he seems to rely upon, beyond the common Practice: However, I shall accommodate you with the best Directions, either for Inward or Outward Medicines to expel this Venemous Insection; both which ways are performed by Mercury, particularly prepared for this Encounter, which is the only Medicine that can be depended on, in order to a successful Cure: Let some Men rail against it as long as they please, they do but discover their own Ignorance and want of Experience; for when all is done, nothing but Mercury is an absolute Conqueror of this Disease. I will begin with the External Cure by Untition, which in the Learned Dr. Sydenham's * Opinion also, is the best and

p. 36. most certain way of all that are practiced.

When you have resolved upon Fluxing your Patient, first give him a good Purge, and next day anoint the Joints of his Hands and Feer, Morning and Evening with the following Unguent.

Be Mercur. viv. 3vi. Terebinth. pur. 3iiii.

Strain the Mercury through Leather, and then incorporate it with the Turpentine in a Stone Mortar, till they are perfectly united, to which add the following Ingredients.

Axung. Porcin. Ziss. Unquent. Nervin. Zi.
Ol. Lign. Rhod. gutt. xv. Misce exactissim.
ad Unquent. s. a.

After this, I think it needless to insert other Formula's, because it may be depended on, I having tryed it above an hundred times in our Hospital of St. 306, besides what use I have made of it in other places. With this Ointment let the Patient rub himself very well near a Fire, but let him not use above an Ounce or two at a time, and remember

to cover the Joints with Paper or Linnen Rags. The second day, if the Patient is very much infected, you may anoint the Joints of his Arms and Knees again, Morning and Evening as before. The like you may do the third day, and if he does not begin to spit, repeat it the fourth day, and then it will operate. In all this time you must diligently watch your Patient's Mouth, to fee when the Flux begins to rife; for in some it begins on the second day in the Evening, and in others on the third day in the Morning, and affoon as it rifes give over anoisting him ; but if he doth not flux till the fourth or fifth day, you must continue it till that time. When it's long before it begins, you may affile it, by giving your Patient Mercurius dulcis gr. xv. or as I use to do, 4 or 5 grains of Turbith Minerale, which foon procures a Flux. The Chamber where the Patient is kept, must be close and tolerably warm, that no cold or tharp Air may injure him; his Drink must be a good Decoction of Lign. Guine. &c. and his Food of easie Digestion. The Flux going on well, take care you do nothing to check it; Syringe his Mouth with a cleaning Gargarism, and keep the Teeth and Gums clean with a Pencil. If he is troubled with Ulcers, you must not plaifter them up, but only wash them with the Decoction which the Patient drinks, or some proper Vulnerary Water, for they will go off with the Flux. If you apprehend that the Flux continues too long, give the Patient a gentle Purge; let him drink Beer again; use an Aftringing Gargarilm, change the Sheets of his Bed, and then it will cease. However, though the Flux has gone off very well, yet the Patient must be purged well afterwards, and sweated sour or five times in Balneum Laconicum with Spirit of Wine, that none of the Mercury or the Difease may remain behind. This being done, let the Patient change his Room, his Bed, and not put on his Cloaths till they are well cleanfed and aired, and if the Ulcers are not perfectly whole, apply a good Oppodeldoch Plaister upon them. But if the Bones are foul or rotten, you must scrape them well, and then cleanie them well with Phiegm of Vitriol; for before this is done they will never heal; and so much for Unation.

In the next place I am obliged to treat of the Cure by Inward Medicines, but first I must declare my Opinion, that Unition is much the Salivation by furer and fafer way, and does better cleanfe the Blood and Juices, and dicines. fooner heal the Ulcers and other Accidents than Inward Medicines, not to mention the Dangers which occur, if the Mercury is not well prepared; besides, Turbethum Minerale, Arcanum Corallinum, Mercursus duleis and Pracipitatus albus, though never fo well prepared, and their Acid and Corrofive Quality meliorated and edulcorated, they will never raise so kindly a Salivation as the aforementioned Unition, but will rather cause violent Purging and Vomiting. However, that the Chirurgion may know how to treat a Patient that is prejudiced against a Cure by Unction, I will accommodate him with the best way of rais fing a Salivation by Inward Medicines.

Re Extracti Helleber. nigr. siccat. 31. Spec. Diarcos Dii. pulverisentur & admisceantur, Turbith Mineralis 311. Mucitagin. Tragacantin. q. f. f. Massa Pilularum E qua formentur Pilula num. 128. O exe I will furnish you with the fleedige of

Of which give the Patient three or four the first time in the Morning, and the next Morning give him the following Bolus with Water-gruel.

Re Mercur. dulc. gr. xii. Conferv. Rofar. q. f. f. Bolus.

The third day give five or fix Pills again, and the fourth day let him rest. If you see no appearance of a Flux the fifth day, give him seven or eight Pills more, and if yet there is no signs of it, the sixth day in the Morning give him another Bolus, mixed with two Grains of Arcanum Corallinum, and then you may be certain a Flux will rise, if it be possible to Salivate the Patient: If you find the Turbith will work no other way but by Vomiting and Purging, endeavour to prevent it, (though not too hastily) by giving him now and then Nutmeg powdered and mix'd with Sugar, and let him often smell to a piece of Toasted Bread steep'd in Vinegar, on which Nutmeg has been grated.

He that will use nothing but Mercurius dulcis, ought to mix it with a little Cinnabar, and give at least a Scruple the first day, for in a lesser quantity it will not work. The second and third day you must encrease the quantity. Sometimes I mix it with two Grains of Turbith or Arcanum Corallinum, and find it always works the better. During the whole Cure, great care must be taken to Syringe the Patients Mouth and Throat, if any Ulcers are broke out in those places. I know that Mercurius Pracipitatus is often used in this case; but I am so far from recommending it, that I advise every one to forbear the use of it, having observed many Tragical Events occasioned by it. And since this Cure so much depends upon the genuine Preparation of the Medicines, I will shew the best way of making the Turbith Minerale and the

Arcanum Corallinum : And first of the Turbith.

Take Mercurii Sublimati 3ii. dissolve it in a sufficient quantity of Spring Water, which has first been mixed with a few drops of Spirit of Vitriol; close it up in a Vial, and let it stand in a warm place, often shaken for ten days; then put to it drop by drop an Ounce of Oleum Tartari per deliquium, and at the bottom you will find a red kind of Powder precipitated thither. Take this Powder out of the Vial, and pour upon it good clear Water, thirty times or more, that it may be perfectly Edulcorated: Dry it and keep it for use. The Dose is from sour or sive to seven or eight Grains. There is a way of making it rellow, but the Colour adds nothing to its Vertue.

Arcanum Corallinum is thus prepared. First procure a good and true Caput Mortuum of Aqua Fortis, made of a like quantity of Sal-Nitre and Vitriol; from this Caput Mortuum extract its Salt with Rain Water. Of it take six Ounces, rub it well with two Ounces of Mercur. viv. in a Stone Mortar; (the Mercury having sirst been strained through Leather) till none of the Mercury can be discerned: Sublimate it in the usual manner, and you'll see, first a Yellow, and after a Red Sublimate ascend; take out the last only for this purpose; Wash or cleanse it three times with Rain Water, and your Work is done. The Dose is from four or five to seven or eight Grains.

Next I will furnish you with the Receipt of the English Blue Pill,

which has been formerly in very great request; though now it is not fo much in fashion; nor I think scarce deserves it, for the Prescription is so ill composed, that one Ingredient spoils another.

> R Gumm. Guiac. 3 s. Arabic. Zi. Specier. Diatragacanth. frigid. 3vi. Camphor. in Ol. Juniper. Solut. 3ii. Cremor. Tartari, Ocul. Cancr. aa. 3ifs. Mercur. Current. 36. Terebinth. Venet. 31. Turbith. Miner. rite ppt. 3i. Extract. Rudii 3i. Pill. ex duobus 3ii. Resin. Zalapp. 3is. Diagryd. Ar. troch. Alhand. aa. 31. Mithridat. 31. Ol. Lign. Guaiac. gutt. XX. cum f. q. Syr. de Spina Cervina ad Maff. Pillularum f. pill. ex 9i. 2111m. X.

The English Blue Pill.

Of these Pills ten are to be taken in a Morning, with a good Decott. Lignorum; but in my opinion they will fignifie little, if there is not alto raised a small Salivation.

It commonly happens in a Flux that the Almonds, the Tongue and Ulcers in the Gums are much inflamed, Swelled and Ulcerated by the Acrimonious Throat. quality of the Mercury, when it forces its way through the Duttus Salivales, which cannot be totally prevented; all you can do is to temper its violence with a Gargarism, which at first must not be restringent, and therefore take only Decott: Veronica Plantaginis, mixed with Syrup. of Wild Poppies; or only warm Milk from the Cow. But when eight or ten days are past use the following.

Be Fol. perforat. Hyper. Veron. aa. Mi. Herb. Vinc. per Vinc. Plantag. aa. Mifs. Flor. Rofar. Mii. Sambuc. Malra Mi. rad. Tormentill. 3 fs. Cort. Aurant. 3ii. M. feind. & contund. coquanturq; 1. q. Aq. Pluvial. f. Gargari [ma.

This may be used in the time of the Salivation to gargle the Mouth, to which you may add if you please Mel Rosarum or Mel Chelidon, and to the Ulcers the following Mixture.

> B. Mucilag. Sem. Cydonior. cum Ag. Mell. & Plantag. Ziiss. Ziss. Syr. Moror. flor. Tunic. aa. 3ss. Mell. Rosar. Biii. Chelidon. Bifs. Aq. Rubr. benedicta Bi. Sacchar. Saturni Alumin. aa. 31. Misce f. Mixt. ad usum.

But sometimes these Ulcers are so dangerous, that you must only take Aqua Benedicta rubra, mixed with a little Mel Rofarum. Ulcers in Body. other parts of the Body must be often washed with Aqua Calcis, mixed with a little Saccharum Saturni, and applyed with Linnen Rags dipped in the Diet-drink, by no means use any Ointments, but if they should prove very contumacious, use the clear of the following Water.

B. Fol. Solan: Chelidon. Hyffop, Salvia, Rute, Alchimill. as, Mi. rad. Ariftoloch. long. Tormentill. aa. 31. Bulliant. Parisms

parum cum Lixivio thiii. fit Colatura, & in hac immisceantur pulv. subtilissim. Aristol. rotund. 31.

Lixiv. è Calc. viv. 3vi. Mercur. duscis 3is.

pracipit. alb. 3s. Essent. Myrrha 3ii. digerantur in vase bene clauso per 8 dies sape agitando, & calide postea Ulceribus applicetur.

Rotten and foul Bones.

Rotten and Carious Bones, as I said before, must be scraped till they are clean and white, or they will never heal; but if they are so rotten as to Splinter, take them quite away; for neither the Salivation nor any other Medicines, can restore rotten Bones, or bring them to healing. Phlegma Vitrioli is certainly an excellent Medicine to cleanse rotten Bones, and render them white again; but if it happens near the Eyes, a more careful course must be taken, or for bear tampering with them at all.

Tumors, Knots and Bunches. Those hard Tumors called Nodi and Tophi, which visit the Head, Neck, Joints of the Arms, and especially on the Shin-bones in an Inveterate Pox, are very hard to cure; for often when they heal in one place, they break out in another, and no parts of the Body are exempted from their Invasions, which resisting all ways of Cure, render the Patients miserable Spectacles to all Mankind, and torment them till they die; but if you are so happy as to make them ripe and fit for opening, crush out the Matter, cleanse it with Lixivium è Calce viva, and apply the following Balsam warm upon the Orifice.

Re Mell. Persicar. 3,3. Balsam. de Nicotian. virid.

Mei 3iii. Copaio. 3iis. Essent. Myrrh. Sarcocoll.

aa. 3is. Sacchar. Saturni Diiii. M. f. Balsamus.

This Balfam is defign'd to temper the Acrimony and Acidity of the Humor, and be affured it will answer your Defires, if you apply the tollowing Plaister over it.

B. Emplastr. Diachyl. simpl. Artaphan. aa. 3vi.
Saturnin. Myn. defensiv. alb. aa. 3viiii. de Ranis
cum Mercur. 3x. pulv. Succin. Tutia ppt. aa. 3is.
Testar. Ostreor. ppt. lap. Ostiocoll. ppt. ad. 311. Croc.
Metatlor. 3i. Sacchar. Saturni 3iiii. slor. Antimon.
Lap. Chrystall. ppt. aa. 3ii. cum s. q. Olci e Corticibus
Betul. Malax. & f. Emplastrum.

When they are thus well cleanfed, heal them with a good Digeffive. To some that were very pertinacious, I applyed the Mercurial Water, described in the beginning of this Chapter, which has sometimes succeeded, and other whiles failed; for in truth it is a milerable Distemper, by which a Chirurgion has abundance of trouble and vexation, and in the opinion of those that think an able Chirurgion must necessarily cure every thing, gains but little Reputation.

Other Concomitants to this Disease, are virulent fetters or Red Spots on the Forehead, and sometimes on the Breast and Privities, causing a violent Itching, and if scratched, spread surther and surther. Not long since I had two Noblemen in Cure, who complained of no other

Virulent Tet-

other Distemper but these Red Spots in their Foreheads, and one of them on his Breast, but I knowing they had not been over chaste in their Youths, had room for a farther Suspicion, and therefore ordered them to be anointed with the Unguentum Lythargyr, made with Oleum Amygdalorum and Tutia; first to take away the Scabs, that two or three days after, my Agus Mercurialis might better temper and take away the Acid and Acrid Humors residing there; besides, I ordered them a good Diet-drink to cleanse the Blood, by which means they were both cured in a short time. But if this Method should not succeed in some of your Patients, they must be Salivated as the surest Remedy.

Pains in the Joints and Limbs, which are intolerable in the Night, Pains in the are other Attendants on this noisome Disease, proceeding from Sharp Joints. and Soure Humors, which by reason of their thickness cannot pass the Junctures, settle there, oppress the Nerves of that Joint, cause those tormenting Pains, and if not removed in time, seize the Periostium, and make the Pain intolerable. However, you must not always conclude, that these Nocturnal Aches constantly proceed from the Pox, for Rheumatick Pains, or Arthritis Vaga Scorbutica are also most violent in the Night, only with this difference, that if they stay two or three days in one part, they will afterward remove into another; but Pains proceeding from the French Disease, never shift their Quarters.

Begin the Cure with Emplastrum de Ranis cum dupl. Mercurio, which being applied twice a day, will much contribute towards it; especially it you sweat your Patient twice a Week, and ply him with a good Decoction of the Indian Woods. If this will not prevail, sweat your Patient in Baln. Laconic. cum Spir. Vini five or fix times, and every time he comes out of it, bathe the grieved parts very well with the fol-

lowing Spirit.

B. Lumbricor. comp. Formicar. Rorismarin. Flor. Sambuc. aa. 3i. Ag. Anhaltin. Spir. Vini Camphorat. aa. 3vi. Spir. Salis Armon. 3ss. Essent. Opii, Castor. aa. Dii. M. s. a. adusum.

Spiritus ad juncturarum dolores.

This being done, apply the following Plaister and the Pain will cease immediately; but if the Periostium is injured or corrupted, it must be nicely observed and managed after another manner.

B. Emplastr. Arthrit. Myns. 3vi. Vigon. cum duplo Mercurio 3vii. Emplastr. Oxycroc. Myns. Diaphoret. Myns. aa. 3iiii. Artaphan. 3vii. M. Malax. cum s. q. Ol. Laterin. ad Emplastr. form.

If you defire it should be stronger and more penetrating, you may add Flor. Sal. Armoniac. 3iiii. to it. If an Inflammation should happen; yet you must by no means use any Cooling or Repelling Medicines to it, lest you make it worse, by causing a greater Stagnation of the Liquors, and rendring them more Acrid and Malignant. The other Medicines will do your work, with the Exercise of a little Patience.

MAP. 22. Centiment (steriora) The state of the s other Difference but their field out in that forebooks, and out of the mate be about a water the Ma waters a selection with Classes condition of their second discontinuous or the property of the manufacture of the contract of days often, tax the Aremore and be bearing a mixty and take away Bells the crois ? and Sogre Hamors which by reason of their third nels cannot pais the the mine Party : and figure removed in the section before the regiment, the first the chartest Achtemosphisely proceed hell and fox, examineral Cycles, or swhem Page Sections are alternal violen. dry mone part, they will all strated remove into another a but Pains Him one and boo and the control of the Page with and the party of the state of the few to the state of the state of and door necessary 5 to the day for Over the Right Budgeleyt, Myre, an at all a comprehence of the state of the latter than the state of the latter of server med by a means meany wooling of Servilling Medicine and the TINITE TO A STATE OF THE STATE

CHIRURGIA CURIOSA

Blood was wiped off, he apply'd to the Wounds only time double

Chirargia Cariola

Or, the Newest and most Curious

would will; infomuch, that they appeared quite whole; thou be-OBSERVATIONS and OPERATIONS

upon the Stage. By which it appears, that this Man knew how to care Wounds in a days time without the thiotes method of bringing them to Supparation T. R. A. slodw anton Indian by felling this

Medicine, and the it must be suppoted he made the

camforaneus, for fix Reichs Thalor, which I here communicate to the

Treating of Manual Operations on the Extream Parts of the Body, and what is to be observed from them.

wholoever practiles, will find fach Benefit by it, that he will never

of Wounds in general, in the Arms and Legs, Elbows, Knees, Fingers and Toes. worning was two thin

Calcine Fitriol after the plust manner. TINCE, as I have already faid, and I hope fufficiently proved. that Wounds may be cured without the use of Suppuratives. fuch as Plaisters, Ointments, Balfams, Digestives, &c. It ought to be the first and chiefest Care of a Chirurgeon, to take all things out of the Wound that hinders its Healing; draw the Lips of the Wound as near together as possible, and then dress it artificially, that the circulating Liquors may not go out at the lacerated and wounded Ramuli, and to prevent its Healing. This is the chiefest Point; and if you diligently observe it, and let the Patient rest for a days time. that it may keep together as you left it; you will infallibly arrive at your defired End speedily and fafely. The Wound being drawn together as near as you can, spread the following Plaister upon Leather, and apply it over the Wound, to keep it in that posture.

Be Mumice Subtiliss. pulverisat. Zij. Succ. rad. Consolid. 3j . Tere-Most W mbinth. Cypr. 3j. M. f. Massa ad Emplastrum, a no nwarb aved When the Veffelsare

Let one Plaister continue on five or fix days, and you will have no occasion for above four or five of them, before the Wound is perfectly cuted. In the year 1667, I faw a Quack or Mountebank at Glogan, cut thirteen Wounds in the upper part of his left Arm, and after the Blood

Blood was wiped off, he apply'd to the Wounds only fine double Linen Rags moistned in a warm Mixture or Liniment, and then rolled up the Arm very Tight with a broad Roller. Next Morning coming again upon the Stage; according to his promise, he shewed the People his wounded Arm, which I affure you was as good as healed, without any Inflammation or Swelling, and as neatly joined together as one would wish; insomuch, that they appeared quite whole; tho' I believe he was forced to give them another Drefling, tho' he did it not upon the Stage. By which it appears, that this Man knew how to cure Wounds in a days time, without the redious method of bringing them to Suppuration. He got a great Sum of Mony by felling this Medicine, and tho' it must be supposed he made those Wounds in the most convenient places for healing, and tying the Lips close together; no body ought to blame him for it, fince he performed his Promife. At the same time a young Chirurgeon lived with me, who being very defirous of the Receipt; bought it after great folicitation, of the Circumforaneus, for fix Reichs Thaler, which I here communicate to the Reader.

R Pulv. rad. Consolid. maj. Sarcocoll. ana 3 . Bol. Alb. 3jss. Miste fat Mixtura cum Luti Fabril. s. q. in Linteolum, illinatur & Mont Loco Kulnerato applicetur.

This Method may be truly call'd Glewing Wounds together-; which wholoever practifes, will find fuch Benefit by it, that he will never change it for the Ancient Greafy tedious Applications. There is also a wonderful Remedy invented by Mountieur Bouches, Chirurgeon at Chamberi, and communicated to us by Mounsieur Blegni, in his Monthly Observations, which cures Wounds fafely and speedily.

without any Suppuration, and is prepared in this manner.

Calcine Vitriol after the usual manner, put two third parts thereof into an Earthen Retort well luted and closed up. Set the Retort into a Reverbetory Furnace and put a large Receiver to it. First make but a gentle Fire till the Phlegm is come over, which put away into another Phiol; lay the Receiver again to the Retort and close it well where they join. Increase your Fire by degrees, and when you see the Receiver is fill'd with clouds go on with your Fire, till the Receiver grows cold again. From that time push on the Fire to the utmost. and continue it for two whole days and nights; then let the Fire go out and the Vessels cool. Open the Receiver, take out the Spirits that are in it, and put it to common use: but the Matter you find in the Retort grind upon a Marble, and, with the like quantity of Rectified Spirit of Wine, fet it into digestion, sealing up the Phiol very close. This being done, put it into another Retort well luted, and the Retort into the same Furnace, and when you have gradually warmed the Retort, give it a strong Fire, and continue it four days and nights, till you have drawn off all the Spirits and that which is called Oleum Vitrioli. When the Vessels are cold, separate the Spirit of Wine from the Oily Subflance in Balneo Maria. But this Oil being yet too corrofive, put it into a Retort with half an ounce of Lymatura Chalybis to four ounces of the Oil and destil it over again. This Oil will stop the bleeding incomparably, and heal a Green Wound in two days time, if withal Blood

you give the Patient three drops of it inwardly in a glass of Wine or other proper Vehicle. Stroke the Medicine into the Wound with a Feather, so as it may reach the bottom of it; then tye or roll up the part where the Wound is, pretty tight, that the Lips of the Wound may lie close together, and you will find the Operation performed to a Mi-

Wounds in the Elbows and Knees are much the fame; for neither Wounds of the of them (but very rarely) can be hurt without injuring the Ligaments, Knees, Nerves and Tendons; and if the Lasion is large and upon the Joint, you must not be too hasty in curing it; for here are many Nerves and Lymphatick Vessels, which will not be so easily stopt up, as in other places, where is more Flesh, because the ends of the wounded Veins cannot be healed by the above prescribed Medicines; but if the Wounds are not very large, it will do very well, especially on the Knee, if the Chirurgeon comes before it is swelled or inflamed; but if the abovefaid Method cannot be put in Practice, you must find out a Medicine that will not keep the Wound too long open and breed abundance of Corruption, which will corrode and putrify the Nerves, Téndons and Ligaments; for which purpose I will present you with a Balsam and a Plaister which seldom fail to cure Wounds in those tender parts.

R Terebinth. Cypr. Zuijs. Mell. Veron. Alchimil. anna Zis. Succ. Apit. Flor. prunell. inspiss. ana 3j. Vitell. Ovor. num. ij. Aloes Myrrh. Sarcocoll. ana 3/sij. Balfam. Copaibæ 3iif. Peruvian 31. Camphor. Biiij. M. f. Balsamus S. a.

This Ballam will foon stop the current of the Lympha, and affist in healing the Wound, which you may perceive in two or three days time, and then you must draw the Lips of the Wound as near together as as you can: then lay afide the Ballam and use nothing but the following Plaister, which is out of the road of your ordinary Prescriptions; and will do more in one day, than another shall do in ten, as you will find by making tryal of it. then tye both ends of the filk in

Be Ol Amygdalor. dale, thiij. Lythurgyr. thiss. Minit this to see sme?

The Lytharge and Red Lead must first be very well powder'd and boiled on a gentle Fire, to the confistence of a Plaister; to which add Ceræ albæ Bis. and when it grows cold put in the following Powders; but not the Gums, for they must be dissolved by themselves, and put in last of all; when the rest have been mixed well together.

Flor. æris 3j. Magnet, ppt. Aristol. long. Consolid. maj. ana 3viijs. Mastich. Ziij. Myrrhæ, Oliban ana Zij. Gum. Galban. Ammon. ana 3111. Opopan. Bdellii anna 3p. Sarcocoll. 31/s. M. f. ad Emplastri consistentiam.

If there should happen any great Inflammation, make use of my Lac

Aureatum to allay it.

Wounds in the Fingers and Toes, tho often flighted, require a dili- Wounds in the gent and experienced Chirugeon; for where feveral Veffels, as Nerves, Fingers and Arteries, Veins, Tendons and Muscles occur, and where there is so little

Flesh that every Wound reacheth to the Bone, many ill Accidents must necessarily happen upon their being inartificially treated; therefore if you are called to Wounds in the Fingers, before there is any Inflammation or Swelling, make use of one of those Waters described in the first Chapter of the Second Book, or one of those lately mentioned, which apply warm with a fine Rag to the Wound, and tye it up tolerably fast with a Fillet or Roller. Some in this case use Dr. Bontokoe's Vulnerary Balfam, and others that of Poterus, which I shall produce in this place, Bontekoe's being inferted already in the fecond Bood.

By Succ. rad. Hirund. Jiiij. Aristol. rotund. Valerian. anna Jij. Foli. or. Consolid. Plantag. Serpentar. Sanicul, Alchimil. ana 31/5-Saxifrag. rubr. Consol. aur. Succ. Juniper. Summit. Hyperic. ana 3j. Ol. Chamom. Spicæ ana 3jss, Lumbricor. 3x. Hypericon. Bvj. omnibus bene mixtis & per Retortam destillatis, adde Myrrh. 3jfs. Mastich. Oliban. Vernicis ana 3iij. Terebinth. Picis Naval. and this. M. f. Balfamus. The Oils must be made has another with Oil of Sweet-Almonds, and not with Oil of Olives,

If there is an Inflammation and Swelling in the Fingers, bath them with a good Ointment, of which you may find variety in this Treatife, and apply a Stiptick Plaister over it, and if that Course does not reduce it, ule my Lac Aureatum. The French have a Cataplasm, tho very common is very good in this Cafe.

Be Mica Panis Tritic. 3iij. Vitell. Ovor. Num. iij. Croc. Orient. 3fs. M. cum S. q. lac. Vaccin. ad Cataplasmati form. calide loco affecto healing the Wound, which you may perceive in the rutapilique days time and then you much draw the Lips of the Wound or near roughest

If the Nerves are cut afunder, they may be stitched together again in

Thrust an ordinary crooked Needle with a double filk in it, through each end of the Nerve, and fo bring both ends of the Nerve near together; then tye both ends of the filk in a Knot and cut the rest of the filk off. Some are of opinion, that this is impracticable and intolerably painful; but I can aver it in the presence of God Almighty, that I have done it above twelve times and always with good fuccess; but here let it be remembred that the Stitches must not be set too near together. lest they fend afunder: wolfol eds ni to grows cold put in the follow and when it grows cold put in the follow.

Ther weis i. Mornet. II pt. . P. A H D on aird maj. and Svinife

ust not the Gums, for they must be disloyed by themselves, and put

Mastick. Till Algeba, Old wara 30. Com Galban. Ammon. Of Wounds made by Gun-shot, and how the Bullets may be drawn out, and the Wounds cured.

Groundless

Elefte

OUNDS made by Gun-shot, differ much from others in their Figure and in themselves; for they are generally round and others long; besides, they are always made with a Laceration and Contusion of the Flesh, but those made with a Sword or other cut-

ting Weapons, only divide the part without Bruifing or Tearing it. The Ancients were of opinion that a Bullet conveyed into the Wound both a burning Heat and a fort of Poyfon, and therefore used to cure fuch Wounds with burning Oils, and fuch like Medicines, made very hot, which put their Patients to intolerable Pains and kept them fo long a time under their hands, that the Cure was a greater Punishment than the Wound; but the Opinion and the Practice are equally scandalous; for the Bullet flying with a Force communicated to it by the Powder, may carry with it peices of our Cloaths, or what is nearest into the Wound, yet the Bullet cannot burn the Flesh: And as for the Notion of Poylon which they thought accompanied the Bullet, I could never find any, nor can I imagine how they should go to work to make a Bullet so Poysonous that the subtil Fire of the Gun-Powder would not spoil the Effects of it; and how many are there that carry Bullets in their Bodies several years without any danger of Poyson.

Bullets in the Body must be drawn out as soon as possibly it can be How to draw done without danger, in order to fet upon the Cure of the Wound Bullets out of caused by it. Formerly Chirurgeons made use of a Scrue for that purpole, which I used to carry with me at my first going into the Camp; but to no purpose, for it is impossible with that Instrument to take hold of any Bullet that lies in the Body. Forceps which have a round Hollowness forward, and some sew Points or Hooks in that hollow part are the most convenient Instruments that can be used for extracting Bullets out of Wounds : But if the Bullet should move and settle out of its right Line, the Instrument must be made accordingly and the Patient put

into the same Posture he was in when he received the Wound.

The Cure of these Wounds must begin with Mundifying Medicines, cure of Wounds and taking out such things as hinder their healing; for which the made by Gunfollowing Balsam put into the Wound with Tents and small Pledgets for. is very proper.

R Terebinth. Cypr. 3vj. Balfam. Peruvian. 3fs. Vitell. Ovor. No. ij. Pulv. Myrrhæ Oliban. ana 3ij. Sarcocol. 3js. Croc. Oriental. 3j. M. f. Ball.

This Balfam will foon bring the contufed Parts to Separation, cleanfe the Wound, and generate good and found Flesh in the place of it. The Plaister to be apply'd to the Wound is to be made as followeth;

R Fol. Rutæ Auricul. Muris, Scabiof. Confolid. maj. Aur. Alchimil. Veronic. Sanicul. Beton. Malvæ ana mj. incisis, coquantur per hor. dimidiam cum Ol. Olivar. tbiiij, colaturæ huic adde Lythargyr. Minii ana thj. Lap. Calaminar. It ss. Saponis Venet. 3111]. omnia ad rectam confistentiam Emplastri molli, coquantur hinc ab igne, remove & Agitando immisce sequent. pulveres. Pulv. Succin. rad. Aristoloch. long. ana 3j. Lap. Ostiocoll. ppt. 3vj. Myrrh. Mastich. ana 3ss. Bacc. Laur. Consol. maj. ana Biijs. Sarcocoll. Camphor. ana 3iss. M. f. Empl.

The Tent must be made of nothing but Lint, proportioned to the Bigness of the Wound, that the Matter and Corruption, of which these Wounds breed abundance, may have Liberty to iffue out; if it be a thorough thorough Wound, and you have an Orifice on both fides, put a Tent into each opening, but not so long as to reach one another in the middle; for you must always give this fort of Wounds sufficient Vent, that they may sooner and better come to Suppuration. When the contused Flesh is separated, and the Wound clean, continue the use of my Balsam, to incarnate and cicatrize the Wound, and as it begins to mend, make your Tents lesser and lesser. If there should happen an Instammation and Swelling, use my Lac Aureatum. Some Authors are of opinion that these Wounds may be cured without Suppuration; but if those Writers had known that Wounds made by Gun shot cannot be cured without a Separation of the Contused Flesh, they would not talk so wildly or prescribe Impossibilities.

Obsetvation.

In August 1693. Captain Brown came to me for Cure of a Wound in his lest Thigh, a hands breadth above the Knee made by a Pistol Bullet, which lodged near the Os Femoris. I dressed the Wound for some days in the usual manner, and finding the contused slesh might be separated; the sixth day I drew out the Bullet with a Forceps; the seventh day a piece of Paper; and the ninth and tenth days, some small pieces of his Leather Breeches; and Fourteen days after he was well enough to ride on Horse-back, and pursue his Journy to his Regiment.

CHAP. III.

Venomous Bitings and Stingings, their Causes, Accidents and Cures.

HE Stingings of Bees and Wasps cause a very sharp and sensible Pain, and raife Swellings and Inflammations, by leaving their Stings behind when they have forced them into the Fleth; which Stings being full of little Hooks (as may be feen by the help of a Microscope) they cannot draw them out again, but there they remain to the prejudice and wounding the small Capillary Vessels. Biting of Dogs are not Venomous, unless in very hot weather when they are mad; and then according to Dr. Willis's opinion, they Poylon the part they bite, by communicating the Foam of their Mouths into the Wound which they make with their Teeth, and that acid and acrid Humour fermenting, causes a Stagnation and Coagulation, which if not suddenly remedied turns to a Mortification, and intolerable Pain will follow. That the Bitings and Stingings of Vipers, Snakes and Scorpions will envenome the part they feize on, is known to every one, and often comes under the Chirurgeons hands; but that, according to the opinion of the Ancients, Vipers and Snakes sting only with their Tongues, I utterly deny; for they also wound with their Teeth and so communicate their Venom, which lies in the Froth of their Mouths, in the same manner as I have faid already concerning Mad Dogs, and but little differing from it. But Scorpions sting and pinch only with their Tails, which if you view in a Microscope you will find full of little Hooks and pointed like a Fork.

In order to cure these Envenomed Wounds, you must first wash them very well with the following Spirit, and when that is sufficiently dryed in, scarify the part about the bigness of a half Crown piece, and ap-

ply to it a large Ventosa or Cupping Glass. The Spirit is thus prepared.

Be Spir. Roris marin. Theriacal, Lavendul, and 3ss. Vini Camphor. 3ij. Sal. Armoniac. 3j. Croc. 3ss. fiat mixtura s. adusum.

Hildanus and L. Junkers extol the following mixture; which I have often used with good Success; but I lest out the Vinegar.

Bt Aq. Regin. Hungar. 3j. Spir. vin. Camphor. 3ij. Theriac. Androm. 3ij. Scord. 3j. Sal. Marin. Diijs, M. f. Mixtura.

Some cauterize the part, especially if the Chirurgeon is not prefently called, and the Wound is also very deep, which is not amiss. some apply a Vesicatory, and others the Moxa, which they burn to Ashes upon the part; and after two or three times cutting the Escar with a Lancet, they apply three times a day the following Spiritus Matricalis of Dolaus and Overkamp to it.

R. Oliban. Myrrh. Succin. Mastich. ana q. l. Spir. Vini rectificat. ut superemineant digitos iiij. stent in loco calido per viij. dies, Dein abstrabc in MB. Dos. 3ij.

Now, tho the Escar is separated, yet you must keep the Wound open some time longer with my Wound Balsam, and take care to apply no unctuous Medicines, but always the following Plaister;

Re Empl. Stiet. Crollii, manus Dei, Diachil. c. Gum. ana zvij. Ceræibs. Resin. zij. Terebinth. zs. Succin. zij. Oliban. Myrrh. Mastich. ana zs. Sal Armoniac. zis. pulv. Spinar. Viperar. zj. Malax. c. s. q. Ol. Scorpion. M. f. ad Emplastrum.

This Plaister is of great virtue in the case we are discoursing of; but if Sal. Viperar. 3is. and Campb. 3s. were added to it, it would be much more effectual. Dr. Emanuel Konig has given us the R of a Powder, which I have often used with admirable success, which is made as follows.

R. Pulv. sem. Card. Fullon. 3ij. Corn. Cerv. Philos. 3ij. Lap. Bezoard. gr. xv. Herb. Card. Benedict. Scord. ana Terr. Sigillat. ppt. 3j. rad. Tormentill. 3j. Ocul. Cancr. ppt. 3j. Antimon. Diaphoret. 3ss. Lap. Percar. 3ij. Cort. Citr. 3ijss. M. f. ad subtiliss. pulver. Dos. 3ss. vel 3ij.

To be a little more particular, the Stinging of Scorpions are generally cured by the application of its Oil, or the Scorpion itselfaster it has been squeez'd. Theriac. Venet. may also be given inwardly. For the Stingings of Bees and Wasps there can be no better Remedy than Robus Sambuci mixed with Camphorated Spirit of Wine immediately applyed. Some Rub the part with Fresh Earth, and lay a peice of it upon the Hurt. Others make a Cataplasm of Rue, Bay leaves, Mallows, and Roots of Marsh-Mallows, mixed with Oil of Olives and Vinegar, to the consi-

consistence of a Pultis. Some use a Cataplasm of Theriaca, Cepæ, Scordium, Caro Viperina & rad. Cyper. Others apply Stercus Bubullinum mixed with Thyma & Meliß. And Blanckard only applies a Plaister made of Lin Seeds, Salt and Vinegar. In the 17 Chapter of the 2d Book I mention'd an Italian Herb called Sanatados, and here I cannot forbear acquainting you, that that Herb will cure the Bitings or Stingings of any Venomous Creature whatfoever, in a short time and to admiration.

In August 1696. the Lady L. being in her Garden was bit by a Mad Dog which made three great Wounds in her left Leg, which pierced into the Os Tibiæ. The second day I was sent for and saw the Wound in a miserable condition, much Inflamed and Swelled, which hindred me from Scarifying the Wound. A Country Chirurgon was with her, but had applyed nothing but Emplastrum de Ranis. I presently ordered the Wounds to be washed with the above mentioned Mixture; to the Inflammation I applyed my Lac Aureatum, and over the Wound the following Cataplaim warm;

B. Fol. Alchimil. Ruta, Scordii, Malva, Auricul. Mur. ana Miss. Farin. Hord. Fabar. Orobi ana 3j. rad. Althææ, Terr. sigillat. ana 3vj. Fic. No. xvj. Theriac. Androm. 3ij. Rob. Sambuc. 3j/s. f. Catapl. c. f. q. Lactis vel Lixivii dulc.

These Applications had such good Effect, that the Inflammation and Swelling wore off, and the Wounds began to be clean, and came to Suppuration; but the mightily complaining of Heaviness and Faintness, I gave her the Simple Mixture three times, which put her into a Sweat, and gave her Eale: besides, she took Dr. Conig's Powder twice a day. Things succeeding so well, I then apply'd Vestcatories, afterwards my Vulnerary Balfam, and an ordinary Plaister over that; by which means this young Lady, under feventeen Years of Age, was perfectly cured in fix Weeks time.

CHAP. IV.

Oedemata, or cold Phlegmatick Tumors of the Limbs, their Signs. Symptoms of Manager and the Manager of Causes and Cure.

Tumors.

His Tumor, commonly called Oedema, is cold, without pain, of the same Colour with the rest of the Skin, and if you press it with your Fingers, will leave Dents for a confiderable time: They often happen to People in years, and fometimes to the younger fort, after a great fit of Sickness, or a Quartan Ague: They sometimes feize upon the Legs, and fometimes on the Arms, according as the Lympha stagnates. The Persons afflicted with this Distemper, have weak Stomacks, their Bloods are thick, crude, and stuffed up with an ill digested Chile; they are very irregular in their Meats and Drinks, and devour abundance of foure things, which will not be brought to a regular Concoction; they drink very much, which hinders the Preparation of the Lympha and Chylus, and turns to nothing

thing out a phlegmatick and noxious Moisture, which is apt to settle in the Legs, and cause an Oedematous Swelling; so that the offending Humour being nothing but a tough Slime, or a thin Gelly, which causes no Fermentation or Effervescence, but only extends and fills up the Vessels, it produces no considerable Pain, unless by some Accident it turns to a Mortification.

The Cure is something difficult, especially in elder People, because they stay long before they seek a Cure, in hopes it will go off of itself, since they seel no Pain; and in the mean time the Materia Peceans is grown so thick and viscid, and the part so injury, that rarifying and dissolving Medicines can have no effect upon them; therefore the Cure must begin, first by hindering the continual gathering of the Matter near the Part; and secondly, by dispersing the Humours which are already settled there. The first may be done by observing a Regular Diet, and exhibiting such internal Medicines as strengthen the Viscera, attenuate and meliorate those Humours, open Obstructions, and promote the Excretions and Secretions of the whole Body; and then proceed to the outward Cure in this manner. If you find the Humours are tough and viscid, apply the following Cataplasm every three Hours, for some Days together; but use no unctuous Medicines, for they will constipate the Pores, and render it more difficult to be cured.

B. Pulv. fol. Malvæ, Verbasci ana zij. Salviæ, Rutæ ana zjs. Rad. Althææ, Bryon. Cucum. Asinin. ana zj. stor. Chammomil. zjss. stor. Sambuc. zvj. Farin. Fabar. zijss. Cineris lign. Quercin zij. Stercor, Vacc, recent. zvj. c. s. q. Lixiv. dulc. s. Cataplasm.

This Cataplasm will attenuate and resolve the Tumor, and open the Pores; but take care that your Ashes are made of true and sound Oak, the Cow-Dung fresh, and the Lye be made strong; for with these three things only, and rolling the part very well, I have cured many Persons in this Hospital. When this Cataplasm has answered your Intention, employ the following Fomentation, with which I have done wonderful Cures in these Cases.

Bol. alb. Ceruss. Calcin, ana ziss. Tutiæ ppt. zi. Vitriol. alb. Alum. ust. ana ziss. Myrrh. Oliban. ana ziss. Nitr. puriss. zi. Fol. Theæ. mj. pulv. slor. Samb. zij. Savin. zss. Ciner. Lign. Fraxin, Quer. ein. ana ziss. Stipit. Fabar. sarm. vitis ana unc. z. Rad. Bryon. zss. contuss & mixtis, cum sequent. aquis & ebulliant semel ac iterum, aqu. Cheresol. Plantagin, ana thiss. slor. Sambuc. this. fol. Salv. ttj. Lixiv. fort. thiiij. siat Fomentatio, & Linteis calide parti assection imponitur.

With this Fomentation I have cured several Patients that were in a dangerous Condition, and but a while since the Honourable Gentleman, Mr. Fisher, whose Legs were swelled as high as his Belly, and was forced to keep his Bed, to which I added nothing but a good Roller. Scultetus made great use of the following Cataplasm, the Virtues whereof I have frequently experienced.

B. Lixiv, e Calc. viv. ex Cineribus farm. Vitis, and fij. Sat. comm.
Nitr. puriff, and zis. Acet. vin. opt. unc.j. M. f. Epith.

thing out a phiegmatick and noxious Moiffure, which is agt to fetcle

It must be apply'd with double Linen Rags three times a Day, as the former; but if you had rather have a Plaister, the following will do your Business; and me are a seal vedt aroled good was vedt ar

Be Emplaker, Diaphoret, Mynf. zxij, de Flyoscyam, Scropbul. Vigon, and zvij, Gumm. Galban, Bdell, and zij, Ammon. zi, Oliban, Manienta flich, and zs. Succin, Tart. purif. and zijks, flor. Salis Armon. zij. Ceræ ziij, Terebinth. zi. Ol. Philosophor, tartar. Fætid, and yd 2000 g.f. Misce s. Emplastrum.

This Plaister must be apply dover the Tumor, and renewed every twelve Hours, and the part from the Foot to the Knee must be swathed with a very good Roller. Doley has also prescribed a very good Plaister for this Purpose, in these words.

Ceræ 3xj. Golophon. Resin. Pin. ana 3ij. Gum. Galban. Ammon. ana 3js. Elemi 3j. Labdani 3iij. Ol. Laurin. 3iij. Axung. Porcin. 3ij. Cerw. 3j. Storac. Calam. 3ss. Rad. Irid. stor. Bryon. ana 3ij. Sem. Cumini 3j. Bacc. Laur. 3vj. stor. Chammomit. Melilot. ana 3ij. Herb. Sabinæ, Thymi ana 3ss. M. f. Empl. s. a.

In July 1692. I had a Person of great Quality in Cure, who was afflicted with such Oedematous Legs, mightily swelled, and besides the Patient was fixty two years of Age, when Dr. Tielisch, Dr. Peruse, and my self, were sent for. I first applyed the sollowing Plaister, and rolled the Legs very well with a Linen Bandage.

phur. Ruland. unc.vj. Succin. tartar. albiff. and unc.vj. Malax.
cum s. q. Ol. Laterin. ad Emplastrum.

Now, tho this Plaister made the Legs sweat very well, and something abated the Swelling, yer, sceing it would be a tedrous piece of Work, we applyed Goats Piss and Sheeps Dung to the Legs, eight Days together, which succeeded very well; but since it made the Room nasty, and the Patient was obliged to receive many Visitants, we lest it off and applyed the soldowing Formentation round the Legs, with double Linen Cloaths mollened in it.

R Herb, Cochlear, Theæ, Trifol, aguat, Sabin, Cicut, ana Miff. Rad.

Ship of Bryon, Ebul, and Is. Summit, Ablinth, Rute fee, and mj Sal.

Ship of Tartar, Ammon, and slif. Nitri slifs, cum. f. q. Spirit, Vini & Urin, Ovin, coquantur f. a. postea Cola. V Vhich succeeded so well, that in a Month's time the Patient was perfectly cured.

you may affine your felf that this Medicine will cure it. tents whereof is as followetly CHAP.

Of Phlegmonous hot Tumors in the extreme Parts, their Differences, min. Anif. Lesures, and Cures, and Signes, and cures. fol, Thece, Savin, and 3]. Flor Sambuc, 3/5. M. f. Palois, Tlujus

The Author's Lac Aurea-

HE very Learned and Ingenious Dri Overkamp, calls these Tu- How a Phleg-mours the Mother of many Diseases, and well he might, for more differs from other Tuif they are not Aggressors; in they ingenerally affociate themselves more, with all kind of Hurts and Maladies. They are very inconfiderable at their first Appearance, but soon grow Redder accompanied with a violent Heat, Burning, Tension of the part, and Intolerable Pain. Our modern Writers call it Phlegmone, and the Ancients an Inflammation. They are in some particulars distinguished from an Eryfipelasand other inflammations, but in the whole are much the fame, with respect to place. If they happen in the Throat, it is called Angina; in the Eyes Opthalmia; in the Side between the Membrana, Pleura and the Diaphragma, it is called Pleuris; in the Lungs Peripueumonia; on the Fingers Panaritium; if in the Face, Arms, Legs, and other

parts of the Body an Erysipelas.

The genuine Cause of a Phlegmone has caused great Debates, and causes, many have puzzel'd their Brains about it to very little purpose; for when all is faid that can be, our late Physicians having founded the Caufe upon the veritable Authorities of the Cartefian Philosophy, few will discover their Ignorance by assuming a Confidence to oppose it. Nothing is more plain, than that every Inflammation proceeds from Acid and Acrid Humours, which corroding and opening the Tender Vessels and Ramuli of the Nerves, &c. the Liquors run out, Stagnate, Caufe an Effervescency, and easily occasion Hears, Swellings and other Accidents, which may arife from inward Gaules; but this may also happen from an outward Hurt, whereby those Vessels and Tubuli being broken, the Juices and Liquors, as was faid before, being extravalated, Stagnate, become Acid and Acrid, and at length produce an Inflammation or Phlegmone. Mish D suns de life rodgent Tutie ppt. 51.

This being the Cause, a Chirurgeon will easily perceive, that his The Cure. first work is to stop the Flux of these Humours; because if not timely prevented, the Tumor will foon turn to a Gangrene. If they can be resolved and discussed by Atenuating Medicines, proceed in that Method; but this must be done speedily, for if the offending Matter grows putrid and indurated, it will foon cause a Gangrene and at last a Mortification. If these Tumours have neither Wound nor Opening, they must necessarily putrify for want of Vent, and then it's the best way to open them with a Lancet, in the part where Nature shall indigitate. But take care that you use neither uncluous nor repelling Medicines; for the first will stop up the Pores, hinder Transpiration, and delay the Cure; and the second will prevent the Circulation, and so Stagnate and thicken the Juices that they perpetuate the Malady. Aftringents must also be avoided, for they hinder the Discussion of the peccant Humours, and increase the Heat and Pain. My Lac Aureatum, so often mentioned, is an incomparable Remedy in this Case; for if the Inflammation is so desperate that you see it growing to a Gangrene, yet cale

you may affure your felf that this Medicine will cure it. The Contents whereof is as followeth.

The Author's Lac Aureatum'

Be Ceruff. calcin. 3iij. Bol. alb. ppt. Tutiæ ppt. Lap. Calamin. ppt. 3j. Myrrh. Oliban. ana 3111. Sal. Tartar. Armon. ana 3/s. Sem. Cumin. Anisi, Levist. ana 3v. Baec. Lauri, Juniper. ana 3vj. Pulv. fol. Theæ, Savin. ana 3j. Flor. Sambuc. 3jss. M. f. Pulvis. Hujus Pulveris zvj. Lixivii opt. zxvj. Aq. Plantaginis, flor. Sambuc. ana 3xx. Chærifol. 3xv. coquantur leniter ad tertiæ partis buand 20 miditatis consumptionem; hinc remove ab igne, & immifce Spirit, vini Campbor. Siij. Sperm. Ceti. 3/s. fiat Lac. Aurea-, Redder according ed with a part toon a

ention of the part, and Intolerable Pain This incomparable Medicine must be applyed warm to the Phlegmone, with three or four double Linen Rags, and repeated fix or feven times a day, as you find it necessary. If the Tumor is very large, mighty Red and Hard, apply the following Cataplasm for two days; which will rarify the Matter, open the Pores, and the Lac Aureatum will penetrate more powerfully, and effect more in one day, than other-

Be Fol. Malvæ Alchimili ana Mils. Scord, recent. Ruta recent. Cicul. 101 ana Mj. Farin. Fabar. 3j. pulv. herb. Charefol. Petresolin ana 3vj. Sem. Cumin. Anif. ana zip Summit. Abfinth, Baccar. Laur. ana zis. Concisis & contusts coquantur S. q. Decedi Althan ad Cataplasmatis consistentiam, cui semper applicando aliquid sequent. mixti immisceatur. Campbor. in Spirit. vini solut. 3/5. Myrrhæ in pauca vin. folus. Bijs f. Cataplant

A Phlegmone parts.

If a Phlegmone should happen to the smaller parts, as Fingers, or in the leffer Toes, and should come to be a Wound; you must apply Emplastrum Artaphani to it. and over that double Linen Rags moistned, in the following Water, which will certainly take away the Inflammation.

B. Tutiæ ppt. 3j. Campbor. 3iij. Cerus Calcin. 3js. Effent. Myrrb. 3ij. Alum. usti Bijs. Sacchar, Saturn. Siss. Sal. tartar. Armon. ana Diiij. Misce cum Lixiv. dulc. Aq. Rosar. & Plantaginis ana 3x. Coque ad Cataplasm. Formam.

Hifficrical Ob-Jeruation.

In August. 1685 a great Princess was my Patient, living about four German Miles from this Town, who had a violent and dangerous Inflammation in her left Arm, caused by being let Blood by a Bath Keeper about eight days before, who had push'd his Lancet through the Mediand into the Nerve that lay under it, which to inflamed and Iwelled the whole Arm, that we thought every Moment it would have Gangrened. The Philebotomist to mend the Matter, apply'd Emplastrum Oxycrocium over the whole Arm, which, as eafily might be guess'd, made it much worse. When first I saw it, I was frightned to see such a Prodigious Tumour and Inflammation. The Princel's complained of intolerable Pain, and sometimes of Hot and Gold Fits, like those of an Ague, and her Breaft on the fame fide was greviously swelled. In fine, it was as dangerous and deplorable a fight, as ever I faw in that

case in my whole Life. Upon the place where the Vein was so unluckily opened, I applyed every two hours the following Cataplasm, always as warm as she could suffer it.

B. Pulv. Fol. Malvæ ziij. Althææ, Scord. ana zij. Flo. Chammomil.
Sambuc. ana zj. Farin. Fabar. zifs. pulv. terr. Sigill. Mithidrat.
ana zj. Sal. Tartar. Armoniac. ana zvj. M. f. Pulvis & f. q.
Lactis ad Cataplasm. consistentiam Coquatur.

With this, every time it was applyed, I mixed some Spirit of Wine Camphorated, and over the whole Arm and Shoulder I applyed, with double Linen Cloths, my Lac Aureatum, and repeating it every two Hours; I sound it was at a stand for 24 Hours, and then it gave evident signs of Amendment. The sourth day I opened the place with a Lancet where the Nerve was wounded, out of which came abundance of Matter, which afterwards was let out twice a day to the great Ease of the Princess. At length her Highness in five Weeks time was persectly cured: only it was sometime longer before she recovered the right use of her Arm, Here you may observe what Mischief attends an ignorant or careless Phlebotomist, and so much the worse, when he knows not how to remedy an ill Accident of his own procuring.

CHAP. VI.

lowing Cataplains.

Subdu'd by this Medicine, you must endeavour by all means to being

Pterygio or Panaritio, vulgarly called a Whitlaw, its Cause

THIS painful Tumour and Inflammation on the Joints and Prognosticks. ends of the Fingers is also called Paronychia, and seldom happens on any other Joints. Its Pulsifick and penetrating Pain is sometimes so great that the Patient has no rest or appetite to his Victuals. It first appears like a Bump with a little Blister on the top, but is followed with an Inflammation, and, if not timely remedied, spreads over the whole Arm, with a violent Pain proceeding from the Sinews, some of which end in the Elbow, and others in the Shoulder, which hereby are very much extended, and the Periostium also suffering, often throws the Patient into sainting Fits and a Fever.

The principal cause is a very sharp and almost Corrosive Acid, pro- The Cause. ceeding from a Stagnation of the Juices, which prey upon the Veins, Arteries and extream Fibres of the Nerves that end in those parts, and if they continue long, not only injure the Periostium but spoil and corrupt the very Bones themselves. The Antients attributed this effect to a Worm which they thought resided in the Tumor, and by its gnawing and biting caused this violent pain. The Hollanders call it a Vyt, say it has Teeth and Eyes, and Rombertus Dodonæus thinks he has seen some of them; yea, he is so very idle and impertinent, as to say, one must not call this Worm by its Name, for if we did, it would immediately be more enraged, and bite, and torment the Patient D d d

more than at other times. Now, that the Vulgar Fry should talk at this idle rate is pardonable, because they know no better; but that Men pretending to Learning should believe and vend such Nonsence is abominable.

The Caufe.

Abundance of superstitious Cures accompany this Distemper; for the ignorant People having imbibed the opinion that it is a Worm, think themselves obliged to tie some living thing upon the part affected, which must continue there till it die to take away the Cause; and therefore apply Frogs, black Beetles, Mull Worms, Crabs, Crawfishes, small Snails, Sc. to it; but Dr. Munick talls this Child by its right name, and says it is downright Foolishness. Licenciate Juncken gives us an admirable Elixir to be used in this case, which by resolving and attenuating the stagnated Liquors, puts them again into their orderly motion.

R Rad. Angelic. Imperator. Zedoar and 3(s. Cubebar. 3ij. Caryophill.

3j. Croc. 3(s. Castor. 3(s. Gumm. Galban. Assæstid. and 3j.

Benzoe. Storac. Calamit. and 3j. Myrrh. 3iij. Mumiæ. 3j(s. Camphor. 3ij. Tincturæ Sulphur. 1bij. Misce & Serva in vase vitreo bene clauso ad usum dictum. f. Elixir Balsamicum.

But if the Distemper has already proceeded so far that it cannot be subdu'd by this Medicine, you must endeavour by all means to bring it speedily to Suppuration, and instead of the former apply the following Cataplasm.

Re Micar. Panis Zviij. pulv. fol. Malvæ rad. Althææ Zj. Farin. Fabar.
ana Zj. Vitell. Ovor. num. iij. Croc. zjs. coque in lack. Vaccin.
q. s. ad Cataplasmatis confisentiam.

This must always be applyed warm, and repeated five times a day, to bring the Matter to Maturity and mitigate the violent Pain. If you find it ready for opening, make an Incident where you find the Matter lies nearest the Skin, large enough for the thick Corruption to go out; but in that observe a Medium, for if the Orisice be too wide, it will give the Air too free an accels to the Bone, which will soon do it injury. Nor must you be too long before you open it, less the contained Matter grow so Corrosive and Malignant, a to rot and spoil the parts adjoining, and perhaps the Periosium and also the Bone it self. When it is opened dress it three times a day to give vent to the Peas, and with Lint apply to the Wound the sollowing Decoction warm; but use no unctuous Medicines, unless you design to ruine your Patient.

R. Fol. Alchimell. Veron. Cheladon. maj. ana mij. Quercin. mj. Aristol. long. mijs. Rad. Aristol. long. ij. Misce scind. & cont. Grosso modo & Coque cum s. q. Aq. Veron. & Mellis s. artem s. Decoctio.

With this Decoction you may mix a little of the foremention'd Elixir Balfamicum, in such a Proportion, as you think convenient; which may also be used in other cases, as Fistula's, Ulters, &c. It the

the Hand and neighbouring parts are much swelled and instanced, then lay over the Finger, the Cataplasm, and over the whole Hand, my Lac Aureatum, and you will sooner accomplish the Cure. When the Symptoms are abated, tye the Finger somewhat hard with a Fillet, that it may not be missinged, or grow too big, as it commonly happens: Besides, solling the Finger will promote the Cure, especially if you begin at the Hand, and so drive the Matter to the Fingers end, where it will issue out; unless there is more than one Orisice, for for then you must govern your self accordingly. But to be more particular in the Cure, I shall give you the Practice of others in the present Case; Dr. Munnick obliges his Patient to hold his Finger for some time in the following Spirit, to abate the Pain.

By Spirit. Vini Bij. Theriacal. Campb. ana 3j. Opil 36s. Misce.

When they had held it there a little while, he applyed the following Cataplaim round it, as warm as the Patient could endure it.

R. Herb. Rutæ, Salviæ ana mís. Flor. Chammomil. Sambuc. Melilot.

ana mj. Sem. Cumin. 3j: Coque omnia simul in Vino & Aqua,
ad remanentiam Pultis, postea adde Farin. Lini, Hordei, ana
3j. pulv. Sabin. 3iij. Butyr. rec. 3j. M. f. Catapl.

As foon as Blankardus perceived a Panaritium growing upon the Finger, he prefently ordered the Finger to be laid open to the Bone, and the Wound to be drefled with Lint, moistened in the following Lavamentum;

By Spirit Vin. 3ij. Theriac. Venet. 3ij. Mell. Chelidon. 3j. Misce. 184

Over this again, he applyed a good Cataplasm, and so proceeded to a Cure. Dr. Overkamp prescribes the following, which being made warm, the Patient must hold his Finger in it three Hours together;

Be Elixir Vitæ 3ij. Spirit. Theriacal. Matrical. ana 3s. Myrrb. 3iiij.

Campbor. 3j. Tinctur. Gastor. 3ij. Opii 3j. M. f. Mixtura.

This being done, he applyed the following Cataplasm warm, and repeated it every three Hours;

Be Herb. Rutæ mss. Salv. pj. Roris marin. Summit, Cumin. Fænicul.
ana 3 ss. Macif. Nucis Moschat. ana 3 sij. Sabin. 5 vj. Croc. opt.
3v. Ol. Mac. 3ss. Panis biscoct. q. s. cum vino Gallico ad Cataplasm. Coquantur.

Muraltus fays, he had cured many, only by holding the Finger in hot Milk, wherein Sage had been boiled, and also recommends Ol. Saturn. as a present Remedy; and Dr. Bontekoe prescribes the following Plaister;

R. Empl. Diachyl. Simpl. Diapalm. ana 3vij. Gumm. Ammon. 3vj. Galban. Ladan. ana 3j. Myrrh. Mastich. ana 3vj. Croc. 3ss. Sperma. When

Ceti 3v. Succin. 3ss. Sacchar. Saturn. 3iij. Pulv. Cumin. Bardan. band ana zis. Campbor. zijis. Malaxatur cum f. q. Ol. Saturni f. Empl. dilamopas ramol live noy bas , muses

This must be spread thick upon Linen, and so applyed, after the Finger has been held a while in Warm Milk. Monsieur Rivet the French King's Chirurgeon, fays he has cured more than a Hundred, by applying Moxa to the End of the Finger. Some order the Finger to be put into a Stale Hen Egg boiled fost. Some put the Finger into the Fundament, others into Vulva, and others again Cow Dung,

Hogs dung, or apply to it Dogs and Rats Dung.

in it three Hours together :

In October 1686. Maria Richters, a Widow, about 48. years of age, had such Tumors and Inflammations, on every Finger of both Hands, except the left Thumb; but especially the Right Hand and Arm was swelled and violently inflamed as high as the Elbow. She attributed the cause of this Affliction, to her often washing in hot; Lye, which was very likely, for thereby the Vessels were hurt, and the sharp Lixivium drew the Humors into the Fingers. It is impossible to express what intolerable Pains the poor Woman endured, and as the thought, found ease in Nothing put putting her Fingers into hot Vinegar, in which I found her holding them when I first came to her. I immediately ordered Venice Treacle, Mitbridate and Diascordium to be well mixed with Vinegar, in which the put her Fingers again, and faid it gave her abundance of Ease. Afterwards I laid round the Fingers some of the Mixture above described, and round the Hands and Arms, I applyed my Lac Aureatum as usually; fo that in Ten days time there was a mighty change; for only one Finger on each hand came to be opened, all the rest growing well by virtue of the first Medicines, insomuch that in a months time the was perfectly cured. I have known feveral ill confequences attend the use of Vinegar in Inflammations but here it did a great deal of Good, non a bayiggs oil niego sids ano to a Cure. Dr. Overstamp preferibes the following, which being mad

E Elixie Vita Ti, AlVir J. Qr A. Hel Prical, and St. Myrrh. Shill

Atrophia, or Wasting and Decaying of the Limbs, from whence it This being done, '. don' warm and bow cured. onob gnied shift repeated it every three hours

Mong the great number of our late Authors, I don't remember any that have treated upon this Nice Distemper; possibly they forgot it, or had to little knowledge of it, that they were unwilling to expose themselves, by discoursing a Subject they were Stangers to. It is a deplorable case, and often happens upon a great Hurt, a Contustion, Fraction or Dislocation in some part or other, where the Chirurugeon has Tyed the part too hard, or employed disagreeable Medicines; both which contribute to the Wasting the Muscles, exhausting the Fat and and decaying the Flesh; but sometimes it comes of itself, and is the Consequence of other Accidents and Diseases, insomuch that the Arms, Legs, and certain other Parts, so sensibly waste and decay, that nothing remains but Skin and Bones; like Trees whereon some Boughs

are dry and withered, while others look fresh and Green. In short, the Skin grows brown, hard, and tough, the Muscles stag and decay, the flat evaporates, and the Vesiels that should convey Nutriment into the weakened parts, grow small, narrow and shrink together, which drys, decays, and whithers the Limb till at length it becomes wholly useless.

By which you may easily discern, that the Cause of this Emaciating Distemper, proceeds from a desect of Nourishment; for the Juices and Liquors which would sustain those parts, being obstructed in their passage and regular Circulation, the Part must needs decay into a state

which we call an Atrophia.

CHAP.

In order to a Cure, you must observe that no Medicines are useful in this Distemper, but what are of very subtil and penetrating Parts, and withal retain a Balsamick Moissure; but all Greasy Unctuous Compositions must be carefully avoided. The part affected must also be well chased with a hot Cloth to make way for the following Fumigation to open the Pores.

Be Fol. Aurant. Citr. ana mís. Flor. Cartham. Rosar. Balaust. ana 3jíse Calend. Cyan. Violar. Citr. ana 3j. Sem. Nigell. 3ijís. Nuc Mosachat. 3ij. Succin 3j. Sacchar. Cant. albi 3iij. slor. Lavendul. mj. Gumm. Sandar. 3is. Mastich. Oliban. ana 3ij. Tachamahac. 3vj. flor. Calamit. Benzoes ana 3vij. M. f. pulvis.

When the part affected has been well warmed with this Fumigation, rub it all over with the following Mixture, which the somewhat dear will recompence the charge; especially it you take Care that the Spiritus Lumbricor, and the Spirit of Angelica roots be truly prepared; for they have a Secret virtue in strengthening and restoring decayed Limbs. The Spiritus matricalis Overcampii and the Elixir Balfamicus Junckenii you will find in the soregoing Chapters.

ge Spirit, Lumbricor. comp. formicar. and zij. rad. Althææ zj. Spirit.
rad. Angelic. ziiij. flor. Lavendul. Roris marin. and zijss. Mastich. Benzoin. and zij. Elixir. Balsamic. Junckij zijss. Spirit.
Matrical. Overkampij. Nervin. Myns. and zss. Balsam. Peruvian.
zss. Essent. Castorei ziij. Myrrh. zjss. M. pro usu servatur.

This Mixture has such extraordinary virtue, that it cannot be exceeded, scarce equalized by any Prescription that has yet been communicated to the World; and this I say exprimentally, for I never found any thing like it. Next follows the Balsam to be used in the Evening, after the Part has been well chased with a Cloth.

Be Succ. Betulæ recto tempore collecti, Ol. Amygddalr. dulc. ana sije Suc, rad. Angelic. Zviij. lento igne usque ad consumptionem humiditatis coquantur, postea admisce agitando Terebinth. Cypr. Zxv. Ceræ alb. Zv. Ol. Hyperic. cum Ol. Amygdal. fact. Ziij. Juniper. Ziss. Sicæ, Petræ, Mastich. ana Ziij. Caryophill. Nuc. Moschate expr. ana ziss. Sangu. Dracon. opt. Zv. Olibon. Myrrbæ ana zijss. Gumm. Galban. Ammon. Elemi. Sandar. c. s. q. Spir. vin. depur. ana Zij. Storacis Liquid. Ziij. Misce diligenter ad Balsamum.

E e e brack The

The Turpentine and Wax must be melted together in another Pot and put to the former. Dissolve the Storax and other Gumms in the Oils, and then add them to the other; and last the Myrrh and Dragons Blood being powder'd, stir them all together, and you will find your defires so far answered in the cure of this Disease, that if you use these two Medicines you will have no occasion to search for others.

Or. Mays has done great Cures in this Nature by the application of Cupping Glasses without Scarification, and after he had employed eight or nine of them for a considerable time, the affected part was rubbed and washed all over with the following Liquor, with which he continued till the Patient was well.

Rad. Sarsaparill. 3j. Cort. lign. Guiac. 3ss. Herb. Rorismarin. Salviæ ana mjss. slor. Lavendul. mss. Baccar. Laur. 3j. Salis Tartar. 5jss. Ammon. 3j. coque cum Spirit. vini thijss. in dupl. vas.

He also used to Sweat them now and then with Burnt Brandy. Tulpius has inserted a remarkable Observation for the Cure of this Disease with small sucking Horns the which I shall communicate to the Reader.

The Ancients used three forts of Cucurbits made of Glass, Metal and of Horns, the two first forts draw by means of Fire and Flame, and the latter only by fucking with the Mouth, which are now of little use but among the Indians of which I will give you an Example. A young man being troubled with the Cholick in that Country, they applyed to his Belly a Horn Cucurbite, and having by fucking at the Horn drawn forth the Wind (which gave him such Pain in his Gutts) through a little hole they made in the Skin, they flopt up the hole again and the Man was cured with little trouble. When this young Gentleman came home, he presented me with one of these Horns. which I tryed upon a wasted Arm, and it succeeded very well. I must say these Horns draw mightily, and after they have drawn up the Skin, they dilate and draw upwards the Veins and Arteries to a wonder, which through weakness were fallen and thrunk together; and to the Spirits and Blood go again into the Vessels, and put a New Life and Vigour into the Decaying parts; for which reason I recommend them as of admirable use in this Distemper, if rightly and diligently applyed.

A Young Shipper having been long troubled with an Imposshumation in his Arm, the great quantity of Matter it daily evacuated had so weakened it, that he had almost lost the use of it; for the Veins, Arteries, Nerves and Flesh were so shurnk, and the whole Arm strangely wasted that there was no appearance but of Bones. To his Arm I applyed these Horns and sound that by sucking them, every day more Warmth and Nutriment was brought to that part, and in a short time his useless Arm came to its former Bigness and Strength. The Figures of these Cucurbitulæ! have inserted for the use of all Ingenious Operators in Chirurgery. Muys has also inserted a remarkable Observation of these Cucurbitulæ, Decad. 4. and Job van Meckern also apply'd these Horns to the lest hand of a Sempstress which was almost quite wasted, and by that means only, perfectly recovered the use of her Hand.

C HAP.

foread it thick upon a peice of Linen clotin and apply it cothe stnewrifus ; upon which lay HIV c. Q. A. H. D it sight with a good Role iter and renew it every times days ; out if this should per please your

Of an Aneurisma or Dilatation of an Artery, Vein or Smew, how it happens, and whether Curable or not.

on Sv. Monte Will Makich, Myrel. and 3Hs. Park

His dangerous Accident often follows Unskilful Blood Letting, How Caufed, when it happens that they cut through an Artery wish the Lancet, for tho' the Outermost Coat of the Artery may in time close again, yet the Innermost Coat being thinner will not so easily submit to a Gure as the other; for feeing it's continually in danger of being further dilated by the Impulse of the Arterious Blood, which finding leffer Refultance there than in another place, it forces its way, and in time extends itself to such a degree, that it obtains the Name of Aneurisma. Dr. Overkamp with good reason says, that these Accidents may also happen to the Veins, Lymphatick Veffels and Sinews, as we find by daily experience; only with this Difference, that the three first Liz quors, tho' they fall as it were into a Bag, yet they may Circulate; but in the Nerves the Chyle can move no further, but flands there and

Causes a great Dilatation.

The Causes with those already mentioned are several, as an Ob-Aruction and Induration of the Neighbouring Glandules, which hinder the passage of the Liquors. A half cut or lacerated Vessel, at which place the Chyle, Blood and Moisture runs out: A Fall, a Blow, or a Push , a Bruise or the like; by which the Vessels are so pressed toges ther, that the Circulating Juices cannot have their free passage through them, but the Wounded Veffel is forced to give way thereabouts, and cause an Aneurisma. Blanckard says it is either caused by the Weakness of the inward Fibres of those Vessels; by an Impostumation or an external Wound in letting Blood, or a Contusion. Juncken says, if the Tu-mor does not proceed from an external cause, then it proceeds from the thickness of the Blood and fuch like Juices, which are push'd forwards in their Circulation with fuch Force, that the Artery may be easily extended near one of their Valvula's, and so the inward Skin tears and causes this Distemper. Dr. Munnick counts sour Tunicles in an Artery, the first and innermost he says is Nervous, the second Musculous, the third Glandulous, and the fourth Vasculous, interwoven with small kinds of Veins; so that if by any Accident, the inward Skin breaks or tears, the Blood runs into the Musculous Skin which being very tender, presently extends and causes such a Tumor or Aneu-

The method in curing these Tumors are various, according as they are of long or fhort standing, for the latter may be cured by Astringent Medicines; but the former seldom, without Manual Ope-

ration. Medicines to be applyed are such as follow.

B. Rad. consolid. maj. Aristol. long. ana 31s. Gumm. Arab. Lap. Caliminar. ppt. ana. Sijls. Vitr. Rom. bene calcinat. 31s. Sangu. Dracon. Aloes, ana 3ij. Myrrh. Mastich ana 3j. M. f. Pulv. Subt.

Mix this Powder with a sufficient quantity of the Whites of Eggs; fpread

spread it thick upon a peice of Linen cloth and apply it to the Aneurisma; upon which lay a plate of Lead; bind it tight with a good Roller and renew it every three days; but if this should not please your Fancy, make use of the sollowing;

R Pulv. Tragacanth. Farin. Fabar. ana 3ss. Boli Armen. 3vj. Colaphon. 3v. Mumiæ 3iij. Mastich.. Myrrh. ana 3ss. Pulv. Rad. Barb. Caprin. 3iiss. f. Pulv. & lut. sabril. vel album Ovorum s.

Use this every way as the former, but if it should not answer your Intention, you must lay the upper and under side of the Artery as bare as you can and the part will callow; then with a Needle you must put a four double Silk under the Artery and with it tye the Artery very fast together, both above and below the Aneurisma, and between the Tylings cut the Aneurisma quite out, and then treat the empty space or Wound, with Incarnating and Healing Medicines, till it is quite cured.

In the year 1680. I had in Cure a Gentlewoman at Halberstade named Anna Peters, about thirty eight Years of Age, who had a large Aneurisma upon her Lest Arm of three Years continua ance the Form and Bignels whereof may be feen in Tabal. 5. Fig. 11. This Misfortune came by a Chirurgeon of Blance kenburg's letting her Blood, who thurst his Lancet through the Vena Mediana into the Artery that lay under it, which caused a Tumor of a vast Bigness. At my first handling the Pulse, I thought the Blood run out of the Artery between the Mufeles; but afterwards I found the contrary, and that it was an Extension and Dilatation of the Artery; which certainly is a very great wonder to think upon, that a Vessel no bigger then a Straw, should extend itself to the Bigness of a Man's head, without breaking the Vessel. This Gentlewoman was not sensible of any great Pain; but her Arm was extreamly wasted and in a manner utterly Dryed up; which was very Serviceable to me, for I could fooner find the Artery ; under both fides whereof I thruft a Needle and Silk, and tyed it close together, and cutting it through between the two Tyings, took it out very happily and quickly, with the Affistance of Mr. Kraue a Chirurgeon at Quedlinburg; and the Patient was cured in a Months time. Here I think my felt obliged to acquaint you, that tho' this Gentlewoman had worn feveral Ligatures, Compressors and Leaden Plates during the first year, yet it took its course and nothing could have any effect upon it. The Atrophia or Wasting of the Arm, I cured with the Balsam and Mixture mentioned in the foregoing Chapter. Is morno'T work going no bodism on ke

they are of long or their flanding, for the latter may be cured by Attrangent Medicines to be applyed are foldom, without Manual Operation. Medicines to be applyed are fuch as sollow.

B. Radiconfolid, maj. Ariflod long, and Sig. Cammo Arab. Lap. Callminar, ppt. ana. Sijis. Vitr. Rom. bene takeisat. 3fs. Sancu, Oracan, Alors, and Sij. Myrrb. Mastick and Sj. M. s. Pulv. Subt.

CHAP.

Mix this Powder with a fufficient quantity of the Whites of Eggs.

e Emplastr. Diaphoretic. Mynf. cam Picc, de Ranis cum Mercurio dupl. and 3x . DX alph P. Au Hai vij. Ol. Tarear per deliqui.

um q. f. Succin. 3). floris Salis Armon. 3ii. M. f. Emp .. f. a. Tumors and Swellings on the Elbows and Knees, what they are, nave no elect upon to eight oays together and the Method of Curing them! I all guild and the Method of Curing them!

Caraplafing of warm, and repeat it every three hours, that the Ma-Wonder why this Tumor, that is generally counted a stubborn and What they are.
Malignant Distemper, is so little taken notice of by our late Authors; but possibly it was because our Writers reckoning it among Tumores Oedemotoff, and imagining it proceeded from the same cause, they thought it unnecessary to treat of it particularly; but I must enter my diffent against that opinion; for the they are of the same Colour, cause no Pain, and are hard to be brought to Suppuration, and so far agree with an Oedema; yet they differ in many other particulars; for they How they are. feize on no other parts but the Joints of the Knees and Elbows are a kind of Excrescences like the Fungi on Trees, soft and moveable; resist the Impression of the Fingers; never shine; Cause little Pain, and yet in time grow fo big, that they hinder the motion of the Knee and Elbow, and make the Patient very Lame or a Cripple.

Several Accidents may occasion it, as often falling on the Knees; Tee Cause. Ariking the Elbows against hard things, and such like Hurts or Bruises; The falling of Humours upon those Joints, as in a Rheumatism; where the Ligaments and Junctures being extended, the small Lymphatick Vessels are obstructed, which if not timely prevented will break those Vessels, and then the Lympha runs out, extends the Skin, and by

degrees caufes fuch a Spongeous Tumor.

These Tumors may be cured at their first coming, by good Medi- the cure. cines; but if you let them alone till they are Old, large and Obdurate, Medicines will fignify little, and you have nothing to depend upon but opening it to let out the Water; of both which Courses we shall treat particularly, and first of the Cure by Medicines, in which I recommend the following Plaister; in the state of its single

Bt Emplastr. Diaphoretic. Mynf. cum Pice 3xij. de Gummat. Sylvif 3viij. Hyosciam. Vigon. 3vj. liquefacta immisce Ol. Tartar. Fætid. s. q. remove ab igne & adde Pulv. Succin. 3j. Tartari. albiss. Bij. Flor. Salis Armon. evj. Nitri Biij. Calc. viv. 3jis. Mastich. Myrrh. ana 36s. Oliban. 3ij. Gum. Bdellij, Sandar. ana 3ijs. Rad. Gonsolid. maj. Ol. Philosophor. Hyosciam. ana q. f. Misce. f. Emplastrum Lege Artis onot convenient age and correfere, in the most convenient and

Sylvius's Emplastr. de Gummatibus, mentioned in the foregoing Predigitates a but this mult never be Fingers breadth below the Patella, ; dtswolld as shem as , noriginal

B. Gumm, Scrapin. Bdellij, Opopan. Galban. ana 3j. Solut. in Spirit. wini, Colatura adde Mastich. Thur. Mascul, ana Biij. Cera alb. Lance they ecnerally use a C. lqm, M. f. Empl.) a she villerong your sound

of to you think the foregoing Plaister too tedious and troublesome to make, employ the following, which I have found very beneficial in out by degrees, left you injure the Majoulus Plant, slet

Be Emplastr.

Daring.

Re Emplastr. Diaphoretic. Myns. cum Pice, de Ranis cum Mercurio dupl. ana 3xj. Diasulphur. Rulandi. 5vij. Ol. Tartar. per deliqui. um q. s. Succin. 3j. floris Salis Armon. 3j. M. f. Empl. s. a.

But if the Tumor is grown to Pertinacious, that these Plaisters can have no effect upon it; eight days together apply the following Cataplasm to it warm, and repeat it every three hours, that the Mater may be made thinner and the Passage easier to be worked upon by the Fomentation.

B. Pulv. fol. Malvæ, Althææ, Hyosciam ana 5j. Semin. Hyosciam. 38s.

rad. Aristol, rotund. 38s. Farin. Tritic. Sem. Lini ana 338s. M.

cum s. q. Lactis f. ad Cataplasmatis consistentiam. hatega mallib

When this has been applyed for the time prescribed, at the following Fomentation applyed with double Linen Cloths, as hor as the Patient can suffer it, and repeat it three times a day.

Re Vitri Puriss. 36s. Alum. crudi, Tartar. puriss. and 3v. Bol. Armen. Ceruss. Calcin. and 3is. Virid. æris. Vitriol. Roman. and 3is. Sal. Armon. 3ij. fol. Savin. Theæ and 36s. Flor. Sambuc. 3v. Misce f. Pulvis & s.q. Lixiv. & Aqu. flor. Sambuc. coquantur. s. art.

Peradventure you may think this somewhat too sharp; but suspend that opinion till you have tryed it; for with these two Medicines I have cured abundance of People, to the admiration of others. My sac Aureatum performs the same good offices, if only some Nitre, Tarrar, and Sal Armoniac is added to it. I have yet another Fomentation to present you with, which has done so many great Cures, especially on three persons in Halberstadt, that I was unwilling to conceal it.

R Pulv. Sabin. Salviæ, Theæ ana zís. Flor. Sambne. zj. Acaciæ zij Cort. inter. lign. Sambuc. mj. Lap. Calamin. ppt. zj. Ceruss. zj. Lythargyr. zjis. Alumin. Tartar. alb. ana zj. Myrrb. zij.
Cum Lixiv. & Aqu. Flor. Sambuc. ana, per dimidiam boram coquantur.

This you may continue in the same manner as above directed, till the Tumor vanisheth.

The Second

The next way of curing this Tumor, is by opening it with a Lancet, or Corrolive, in the most convenient place that Nature and Art indigitates; but this must never be attempted till you despair of curing it any other way. The place generally chosen is about a Fingers breadth below the Patella, where the Water may be drawn out with little trouble; nor will it hinder the Patient in going; not to mention the conveniency in applying Bandages and Medicines, which will slick better in that part than on any other. Instead of a Lancet they generally use a Corrosive made of Silver and Aqua Fortis, and applyed no bigger then a small Pea, that the Orisice may not be too large, and the Water run out at once, nor the Air have too Free an Access to the part; for 'tis better to stay two or three days longer and let it out by degrees, lest you injure the Musculus Plantaris and Solearis.

BE Empl.

The Cauler

lears and cause other ill Accidents. When you have the first time drawn out as much Water as you think convenient, put a Tent into the Wound big enough to fill it up, that no Water may go but but when you please. To the Knee apply a good Defensitive Plaister, and oper the Wound a good Stiprick, till all the Liquor is exhausted and then heal it up again. Make use of Fournier's Bandages de la Main pag. 81. Le Lieu L'Eftrier de la Mainy mand de la Palestre Num. 150 all that a Chirurgeon can do, is but to keep them from growing wester

on In January 1681. Anna Jachman a Brewer's Wife in Halberfradt, a- observation, bout 43 years of age, came to me to be cured of a large Fungous Tumor on her left Knee, which he had had above feven years. At firstit gave her but little trouble in going, afterwards more, and in the last two years the could fearce go at all. She had used abundance of inward and Outward means, but all to no purpose. She had been unider a Chirurgeons hand at Magdeburg for feveral Weeks, who applyed many things to it, and at length Fluxed her, but without effect, as might be eafily guessed, for what could a Salivation lignify to such a Tumor as this was! About a Fortnight I applyed the Cataplaim abovementioned, to prepare it for opening, which I performed in the prefence of Dr. Hafenbein, by Laying a Corrofive on the place as may be Geen in the Figure; which did its work in two hours time; upon which I applyed a finall Digestive, and over that a common Plaister. Next Morning help'dita little with a Lancet, and the Fourth day the Water broke out with a Force, and run above a Pint of a kind of thick Serum, like matter. The fame Evening came out about the fame quantity, and the Four following days came out in all about a Quart; Then it began to cease running, and the Swelling abated every day. For the first eight days I continued the use of the Cataplasin; afterwards I applyed over the Knee Emplastr. Manus Dei, and proceeded with the Wound in the fame manner as I taught above in the Cure by Medicines; by which I had fuch Success that in eight Weeks the Woman was perfectly cured. Wid. Tabul. 5. Fig. 12 imaa as nimero hall to and Billy. Pafful. Min. 1811. rad Liquirit. Billy Conamom. 36.

Having thus made a good beginning, apply the following Plaister

commun. thing, per bor, unam, in olla bene claufa.

Old, Malignant and almost Incurable Ulcers, especially in the Legs; their Causes and Cure.

Emplaste, Nigr. Roder, a Castro Ex. Spermat. Ronar, 2 it. Ol. His kind of Ulcers generally feated on the Legs, being little minded in their first Approaches, are commonly treated with Emplastr. de Rans, or such common Medicine, in expectation that it will foon dry up, or that it conduces to the Patients health to A fond Opinikeep them open; but by this Neglect or fond Opinion, they contract on. more Moissure and grow worse and worse, especially if they follow an ill cured Erysipelas. There is a great difference in these Ulcers, which the Chirurgeon must have a particular regard to. Some are only in the Skin and can no deeper ; others proceed from very SharpHumors, and cause Filthy Ulcers, which corrode and eat to the very Bone. Some are much Inflamed and fwell extreamly, and others not at all. Some

Some void a Watry kind of Johor, others a kind of Bloody Water : 0thers a Milky yellow Whitih Humor intermixed with bloody Matter and others are dry like a Tetter. The Chirurgeon must also observe the place where they happen; for if on the Calves and Fielby parts of the Legs, the Danger and Pain is not to confiderable ; but if they are feated near the Ancie or Foot, where they are many Vellels, Nerves and Ligaments, more Pains must be taken with them, and fometimes all that a Chirurgeon can do, is but to keep them from growing worse. -A thick Matter intermixed with fome freaks of Blood is a hopeful Indication, and an argument that the Matter is not yet very harp and foure 1A but if the Ulcers throw but great quantities of filthy flinkfine Moiftute: you may conclude there is a great Flux of Idamors, and that many Veffels are injured if not utterly spoiled ino on array own

The Caufes.

-nu The Caufes are feveral, fome proceed from the Patients themfelves: in some from the Application of contrary. Medicines, in others from Intemperance or bad Diet, and in some they feem to be Fiereditary for I have feen whole Families, where Fathers and Sons, Mothers and Daughters have all been troubled with fuch Virulent Ulcers in their Legs; but for the most part they proceed from Rent Torn and Eroded Vestels, out of which follow the Lympha and Succus Nervorum between the Muscles, where they Stagnate, grow sharp and foure, and so make the Ulcers from time to time more Malignant and Virulent id w

val If thefeUlcers are of a long continuance, they are troublefome to Cure. but if the Patient is Young, Lufty and Vigorous, and the affected parts are tolerbly disposed, you may hope for a good iffue in attempting a Gure; on the contrary, if the Patient is Old, Unweildy or Cachedieal, it requires a long time if ever he is cured. Where you have good Symtoms and are refolved to make an Effay, order your Patient a good Diet, abstinence from Wine and Malt Liquors, and confine him to drink the following Decoction, and iometimes purge him. band W and cines; by which I had fach Succeis that in eight Weeks the Woman was

R Rad Gramin. Sarfaparillana Zvj. Chine Sij. Lign. Guarac. Saffatras ana Ziiij. Passul. Min. mij. rad Liquirit. Ziiij. Cinamom. 3ss. Cont. & Scind. groffo modo bujus pulv. Ziij. coquantur in Aqu. commun. tbilij. per hor. unam, in olla bene claufa.

Having thus made a good beginning, apply the following Plaister to the Ulcers, it is fomewhat dear and prolix, but will honeffly requite your Coft. their Caules and Cure.

R Emplastr. Nigr. Roder. a Castro Ex. Spermat. Ranar. Itij. Ol. elitii enie Amygdal dulc. i ziij. liquefacta Emplastra cum illo Oleo & Jubthis bor ducto igne admisce. Pulv. Putamin, Cancror. Spedij. ppt. Succin. noise Done ppt. ana 3j. Ofteocollo Tutice ppt. ana 3ij. Cort. Offr. Tifs. Flor. histo had A or rislead & Antimon. Cinza, and Biij. Ocul. Cancr. 3j. Ciner. Nicotian, Bis. Denno V Terr, Sigillat. Matr. Perlar. ppt. ana 31s. Croc. Metall. Mumie ne woll of ana 3j. Myrrha, Aloes Oliban, ana Bijls. Misce f. c. S.q. Ol. Myn-Holder and tim. ad form. Emplastri. sang a zi avod f ill cured Ecylipelus. the Chicargeon must have a particular regard to. Some are only in

> The Emplastr. Grifer mmention d in the foregoing Prescription, and caule filthy Licers, which corrode and enthologono sufficient Some are much instanced and fwell extreamly, and others not at all. Some

B Empl.

Re Empl. Abb. coct. this. Geræ this. Resin. Siiij. Sevi Cervin. Siij. Lap. Calaminar. ppt. Bol. Armon. ppt. Ceruss. and svi. Tutiæ ppt. Lithargyr. and Siij. terr. Vitriol. edulc. Sviij. Sangu. Draconis, Lap. Hæmatit. and sj. M. s. Empl. s. a.

This Plaister is really very useful and Necessary in all these Cases; for it exsiccates, consolidates and cleanseth the Ulcers at the Bottom, which the following Balsam will also much assist if they are very deep.

Phlegm. Vitriol. 3j. Succ. Veron. & Alchimill. inspifs. 3j. M. f.
Balsamus.

When the Ulcers are sufficiently cleanfed by the Balsam, instead of it use the following Vulnerary Water, which must must be put into the Ulcer with Lint.

Re Decoct. Rad. Aristol. long. Veron. & Alchimill. cum Lixiv. è calc. viv. 3xij. Aloes epatic. 3s. Mastich. Myrrh. Oliban. ana 3iij. Vitriol. alb. Alum. usti. ana 3js. Mell. Rosar. 3j. Mumiæ, Antimon. Diaphoret. ana 3j. dissolutis Gummatibus in Spirit. Vin. simul coquantur. in Aqua Theæ s. q. & postea filtratur.

If this does not please you, use the following, which has been very serviceable to me in these Cases.

Be Lixiv. e calc. viva cum pauco sal. Armon. parat. this. Phlegm. Viltriol. Sacchar. Alumin. ana ziij. Mercur Dulcis. zijs. Sacchar. Saturni zi. Flor. æris zij. Ess. Euphorb. zis. M.f. L. a. aqua.

Here follows another mixture, which I have often used with success in these Cases; for it Mundifies, Consolidates and Exsiccates to admiration, and may be used as an Injection in the most Inveterate Fistula's.

Be Tutiæ ppt. 3ij. Antimon. Diaphoretic. 3j. Turpeth. alb. 3ss. Myrrh. Oliban. ana. 3jss. Amalgam. Mercur. 3ijss. Camphor. 3ss. Sacchar. Saturn. 3ss. Misce & coque in Aqua Mellis & Lixiv. & calce viva ana fbij. ad tertiæ partis consumptionem.

Some Chirgeons apply the following Mass to these Ulcers, the bigness of a half Crown, or proportionable to the Wound or Ulcer, and they do very well, as I have found my self by repeated experience,

R. Tutiæ ppt. Cort. Austr. ppt. Ceruss. Calcin. ana 3js. Sangu. Dracon. Mumiæ ana 3j. Aristol. long. rotund. ana 3is. Lap. Calaminar. ppt. Lythargyr. cum Acet. cost. ana 3vj. Mastich. Myrrh. ana 3iij. Sarcocol. 3ss. Aloes 3ij. stat c. s. q. Aq. Tragacanth. vel Mucitag. sem. Cydonior. ad Massam pro usu servetur.

Dr. Muys has also recommended a Mass to us, to temper and correct the Acidity and Acrimony of the Humors, which is thus compounded.

B. Rad.

Observation.

P. Rad. Tormentill. ij. Cupular. Gland. Nucum Gallar. ana 5js.
Mastich. 3s. Bol. Armen. Terræ Sigillat. ana 3v. s. Pulv. subtilissimus. & Vitell. Over. ad Massam de qua formantur Tabulæ &
Olceribus applicentur. I have often used this with success in
our Hospital.

And that nothing may be wanting to the Cure of these Inveterate Ulcers and Fistulas, I must put you in mind of using that Incomparable Plaister prescribed in the second Book, where I treated of Fistulas; and if they are accompanied with Swellings and Inslammations, to use my Lac. Aureatum, and to roll the Leg very tight from the Foot to the Knee, without which all your Endeavours will come to nothing: But if all these things should fail, you must salivate your Patient, and if that does not succeed, assure your self that nothing will, whatsoever

Arcana's or precious Medicines some Men pretend to.

In August 1687. Christopher Smiede, an Inhabitant of this Town about forty nine years of Age, had fuch a violent Swelling in both his Legs , from the Knee to the Foot, that you could not fee his Toes, in his Right Leg were forty two Holes great and small, and look'd as if Dogs had been gnawing at them. In his left Leg were 3 r. Holes or Ulcers, which in the whole made up the number 55. What Pain and Torture this miserable Creature endured, is hard to be express, considering he had been afflicted with these Ulcers above Eleven years, and that not one Medicine, of the abundance he used in all that time did him any good; till I applyed the following Cataplasm, which gave him ease in less than an hours time and always kept the Ulcers clean; I the rather accommodate you with it, because I have used it my felf in these Cases more than a hundred times with good facces; and the it looks but very Simply, I think my felf obliged to aver, that nothing better can be found for these Ulcers, in the whole Republick of Medicine.

Bt Lap. Ofteocoll. Ocul. Cancr. ana 3ij. Lap. Calaminar. ppt. 3j. Chrystall. ppt. 3jss. Fragm. Spodij, Corn. Cervi ana 3j. Putam. Cancr. Svj. Misce siat Cataplasma cum Caseo recente prousu.

If you please you may use the Fresh Cheese by itself, but it's better to use the other Ingredients with it. This Patient I first purged for 2 or 3 days, and then put him into a Salivation, which had good essect. Among the Holes in the Right Leg there were four that went to the Bone, which I scraped, and applyed Phlegm of Vitriol to make them. White again, that the Ulcers had render'd Carious and Black. The Salivation healed up all the Ulcers except two in the lest Leg and sour in the Right; but they were very Flat, and also near the Calves of the Legs; so the Patient in less then eight Weeks time, went from me in very good health, except the six Holes in both Legs, which were so little troublesome to him, that he went cheersully about his business, without any Impediment; tho' it must be allowed, that his good Constitution contributed much to his Cure.

Dr. Mays has also recommended a Mals to us, to temper, and correct the Acidity and Acrossony of the Humors, which is thus compound-

B. Rad.

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When you do this comentment make it very warm; file it well together that the PowdellXiay. AixA Hi 3 and add fome appropriate of the then me then therein deable times tags.

Gangræna and Sphacelus; or a Gangrene and Mortification, its Signs, Causes and Cure.

More dreadful Accident cannot happen to the Bodies of Mankind, What it is. whole Limb, if not timely prevented. And which renders it more terrible, no part of the Body is exempted from this Fatal and supprizing Diseate, tho' it generally seizes the Legs or Arms upon some confiderable Hurt, Contusion, Fracture, Wound or Dislocation. The Greeks call it Sphacelos, the Latines, Gangræna, and the English a Gangrene How they differ or Mortification, which differ only in Degrees; for in a Gangrene, the whole is not corrupted, but in a Sphacelus all is Dead and Destroyed, not only in the fofter parts, but also in the very Bones. If the Inflamed part burns extreamly, Swells and very Red Streaks appear, and the Patient endures intolerable pain; then have a care of your Patient, for these are Symptoms of an approaching Gangrene; but if all these signs increase, and the Red Colour changes into dark Brown or Black, and the Pain and Burning ceases the Danger is still greater, for Mortification is already begun. it will all and situla Puly, Ruter.

The Causes hereof are many, as extream Cold happening suddenthe Causes. It to an Inflammation, or the Application of too cooling or repelling Medicines. A decay or utter Privation of Nutriment to the affected part: Venomous Hurts by Weapons or Poisonous Animals: Pestilential Blains and Carbuncles, if situate in Nervous parts, and Wounds, Contusions, and Cutting of Vessels; A great Inflammation in a Cacochimical body: Too hard binding and rolling the Limbs in Fractures, and a Scurvy when it comes to the height. Dr. Bontekoesays the chief cause of a Gangrene is an excessive sharp and acid Ferment, which becoming Corrolive, like Aqua Fortis, corrupts, stagnates and mortifies all the parts in toucheth. Dr. Muys is of the same opinion, and therefore calls it Fermentum Acido-corrosivum. L. Juncken says the chiefest cause is a Stagnation of the Circulating Liquors, which might be occasioned several ways, but at last assuming a Corroding quality, caused a Mortification.

The Cure of this pernicious Effect, consists in such Medicines as The Cure. have virtue to attenuate stagnated Liquors, temper the Acidity and Acrimony, and prevent Rottenness and Mortification; besides you must provide your self of such things as are proper to allay the Heat and Inflammation for which purpose I recommend the following Fomentation, on which I could always depend, if a Mortification had not already seized the part.

R Fol. Scord. mij. Absinth. Chæresol. ana mj. rad. Aristoloch. long.

Zj. Coquantur in s. q. Lixiv. sort. deinde expr. thij. adde Ceruss.

Bol. alb. ana Zjis, Tutiæ ppt. Zj. Sacchar. Saturni Zij. Myrrh. in

Spirit. Vin. Solut. Ziijs. Oliban. Zijs. Alum. usti Zij. Vitriol.

alb. zjis. Lixiv. e Calc. viv. thij. Aqu. Flor. Sambuc. thj. Plantagin. sol. Quercin. ana Ziij. recoque leni calore per dimid. horam stat Fomentatio.

When

When you use this Fomentation make it very warm; stir it well together that the Powder may mixt with it, and add some Spirit of Wine Camphorated to it, then moisten therein double Linen Rags, and apply them as hot to the affected part as the Patient can suffer, and repeat this process at least every 2 hours, and you will find it answer your purpose to admiration. My Lac Aureatum is also an excellent Remedy in these Cases, and so is the sollowing Water, which I have often used in our Hospitals. It must be used with double Linen cloths almost every hour, if you apprehend any danger of a Gangrene, and as hot as the Patient can endure it.

R Fol. Scord. Quercin. and miij. Betul mij. Flor. Sambuc. ziij. Concisis, coq. Lixiv. e Calc. viv. Mens. iij. Colatura adde Cerus. Lythargyr. and zis. Vitriol. Roman, Oliban. Myrrh. and ziij. Camphor. zs. Tutiæ, Alum. usti and zs. Misce & recoque cum Aqu. slor. Sambuc. thiij. f. Decoctio.

As often as you use this Decoction add a little of the Elixir. Balfamic. Junckii, which you will find described in this Book. Some will rather use Cataplasms; to such I recommend the following as very proper.

Re Pulv. Rutæ, Salviæ ana 3j. Scordii. 3js. Absynth. Rorismarin. ana 3j. Sem. Fænicul. Anisi ana 3s. Theriac. Venet. 3ij. Camphor. 3j. Croc. opt. 3vj. Sal. Armon. Tartar ana 3s. Misce f. Cataplasma Lege Arte, cum Spirit. Theriacal. & Spirit. Matrical. Overkampii.

This Cataplasm is to be used when a Mortification is begun and is an excellent one in such a Case. Some Chirurgeons are for Scarifying the Gangrened part, or its Fore-runners without distinction, but often proceed too rashly, when it may be prevented without so much Torture to the Patient; but if you see there is nothing else to be done, you must endeavour to Separate the Gangrened part from the sound, and prevent the Mortification from going farther; but if it grows too fast upon you, there is a necessity, in order to save your Patients Life, to proceed to Amputation and cut off that Limb before the Gangrene goes surther. The sollowing Balsam promotes the Separation to a great degree, as I have often experienced with wonderful Success.

R. Balsam, è fol. Tabac. Mell. Rosar & Myrrh. Zvj. Mel. Fersicar. Veron. Alchimil. ana Zj. Balsam. Peruvian. Copaibæ ana zvj. Elixir. Balsam. 3ss. Theriacal. Venet. Zj. Succ. Scord. inspissat. Zv. Misce f. Balsamus. Panno loco affecto calide applicatur.

Observation.

When

In the year 1690. Sigmund Greger a Clothier about 23. years of age was my Patient, and in a miferable condition; for having broke his Leg about eight Weeks before, he was not only tormented by a Bungling Chirurgeon that had not fet the Fracture right, but also bound and Rolled it up so hard with clumsy Wooden Splinters that it caused a violent Swelling and an Inflammation in his Leg, accompanied with apparent symptoms of an approaching Gangrene: Several great streaks

or freams of it went over the Knee towards the Belly; the Calf of the Leg and the place where the Fracture had been were Impostumed and the Patient endured intolerable Pain, as may eafily be imagined upon such Barbarous usage. I sent immediately for the following Water having it in readiness, and lest my Servant with him to apply it warm with Linen cloths every hour.

Re Baccar. Laur. Juniper. ana Bis. Nuc. Gallar. Bijs. Alum. crud. 31. Ceruss. Zijss. Sal. Commun. mjss. Armoniac Zjss. Lythargyr. Aur. Bij. Tartar. albiss. Bij. fol. Quercin. Rutæ, Sabin. Absynth. Scordii, Salviæ, Flor. Sambuc. Chammomil. ana mj. Rofar. mj. Aq. flor. Sambuc. Lixiv. fortifs. ana 3xij. Vin. Gallic. & Aq. Plantagin. q. f. Digerantur Vase Vitreo bene clauso per 8 dies, vel coquantur igne lento ut ars est. wed erolered but deported

This being apply'd every hour, for two Days and Nights together, the Gangrene was stopped and went no further. The third and fourth day it began to mend very apparently. The Fifth day I Lanced the Calf of the Leg, near the place where the Fracture was, from whence came a great quantity of Putrify'd Matter, and in fourteen days time the Inflammation and Swelling were wholly abated. Then I attempted to fet the Fracture somewhat better, that the Bones might meet and join in their proper places, which having preformed, I used finer Splints, and bound it up more artificially, and in short concluded the Cure in 8 Weeks, to the Patient's great Joy, and my own entire Satisfaction.

CHAP. XII.

Amputation, how it ought to be performed, and the whole Cure ersport our mile our on war compleated. and drod drive modification

His is a more terrible and dreadful Operation, than any in the wholeArt of Chirurgery, for here a whole mortified and deadMember must be cut off in the found Flesh; all the Vessels, Arteries, Veins, Nerves, Ligaments, &c. must be first cut afunder with a Knife; then follows the tormenting Saw, to tear the Bone afunder, and sometimes Burning Irons to stopt the Bleeding; insomuch, that some are pleased to call it an uncharatable, miserable and cruel Operation; but as cruel is it is thought to be, it is sometimes absolutely necessary, in order to preserve the Patients Life, which cannot be done by any other Method; for if it be delayed or neglected but a very short time, it certainly gives the Patient a Summons to his Grave. Which should admonth the Chirurgeon, when he sees no Medicines will take place, to undertake the Amputation time enough; the sooner the better, for if you stay till the Gangrene is come over the Knee, and above the Elbow near the Shoulder; it's then gone too How and where far, and Amputation will do no good. The place where the Section is must be perought to be performed, is three Fingers breadth below the Knee, and formed. on the Arm a hands breadth below the Shoulder. Higher or Lower you must not go, for there the Vessels are larger and stronger, and you cannot to eafily ftop the Blood. I know there are feveral opinions in the choice of the place, but this is certainly the best, as least subject to Hhh

Britiste.

What Instru- ill Accidents and Inconveniences. The Instruments to be used in this Operation are next to be confidered. Monfieur Pere the French Chirurgeon, has Invented a Machine, which by its great Weight and Sharpness, cuts at once the Skin Flesh and Bones afunder. Others, complying with the Method of Botallus, fasten one Knife under the Member and the other above, and then with a fudden fall of a great Weight cut the Limb afunder. The first Machine I saw used at Wefel, but without success; for it did not cut the Leg through at once, but flopt in the Bone, and was forced to be repeated, which made many Shivers, Splinters, and an uneven Bone. The fecond I faw done by Mr. Crause a Chirurgeon at Quedlingberg, on a Country man's Leg; which, by reafon of its greater Weight, went something better than the former; but the Knives turned, the Os Tibiale was cut uneven, and not quite through and therefore he was forced at last to cut it rightly off with the Knife and Saw. So that, all things confidered, the Ancient way in cutting through the Flesh with a Knife, and through the Bone with a

Saw, is more practicable, fafe and certain, then any of the new Inven-

day it began to alend very apparent

When you resolve to set upon this Operation, having all things necessary in a readiness upon a Table near you; first give the Patient a good Cordial, and encourage him by proper words, to fuffer with patience what will conduce to his future well-being. Then lay the Pa-The Operation, tient cross the Bed ; scrue to the Bed-side the Instrument you see described in Fig. 13. Tab. 5. lay the Ham of that Leg into it which is to be cut off, and Tye the Leg fast behind the Knee with a string to the Instrument, that it may not trouble you in the work, by shrinking up and twitching; place one of your Men at the Foot to hold the Leg faft, behind the Patient place a lufty strong Man to hold him, and other people to hold the other Leg, that you may be no way molested in what you are about. The Patient being thus in a good posture; order your Affistant, with both his hands, to draw up the Skin two Fingers breadth above the place where you defign to amputate, and bind it two or three times round the part with a Silk string, or a strong Fillet, that the Skin may not flip back again; for this will not only prevent too excessive Bleeding; but the Skin which was drawn up may be pulled over the Stump to cover it, and promote the Healing. Then with a sharp crooked Incision Knife, cur (in the place above mentioned) through all the Flesh round the part to the Bone, without any regard to the Periostium or ought else in your way; then immediately with the Saw and long Stroaks, cut through the Bones; but when you are almost through, use it gently to prevent the Bone from Splintering.

Bandages.

This being done loofen your Bandages that kept up the Skin, and that which Fastened it to the Scrue, that you may have liberty to apply your Bandages. Draw the Skin over the Stump and pull it together with good sticking Plaisters, or four good Stitches. If you think convenient you may Cauterize the Veins and Arteries once for twice to stop the Bleeding; or else apply the Fuss ball, with my Blood-stopping Powder, and they will do the Work effectually. Over those Powders apply a large sticking Plaister; over that draw an Oxes Bladder moistened in Wine, and over that the cross Ligature, made fast above with another Ligature, that goes several times round the Leg, that every thing may lye close to the Stump: And last of all that choice of the place, but this as certainly the belt, as feath labject to

d d H

lay some Compressors over the whole, moissened in warm Wine, and Rolled very fast with other Rollers.

Rolled very fast with other Rollers.

Let this dreffing continue on for two days, only on the fecond Morning moisten the Compressors again in warm Wine, and apply Afrier the Open them as at first. Do the same again the second day in the Evening, if you apprehend any Danger; if not, take off the Bladder and the Plaister. Let the Fuss-ball stick on as yet, only apply another good fresh Plaister instead of the former, and leave off the Bladder. Afterwards endeavour to pick off the Fuss-ball by degrees, and apply fresh Plaisters; but the long and small agglutinaing Plaisters you must often renew, and draw them nearer together, that the Skin and Fielh may fooner cover the Bone. Upon the Bone always apply dry Lint, unless it should grow blackish, for then you must moisten the Lint with Phlegma Vitrioli to put it to rights again, that the Flesh may grow over it. For the rest, continue a good Emplastrum Sticticum, and conclude the Cure with Emplastrum Saturninum to Cicatrize the Wound.

In October 1675. Hans Schreyer, a Soldier in Captain Babere's Com- observation, pany, who then Quartered at Soyst in Westphalia, came under my Cure, whose Leg was Gangrened from the Foot over the whole Calf of the Leg, and the greatest part of it already mortified; which was occasioned by the Carelefnels of a Chirurgeon belonging to that Regiment, who suffered a Wound made with a Bullet a little above the Ankle, for want of looking after, to run into a Mortification, and to fuch a violent degree, that nothing was to be done but Dismembring : To which the Patient agreeing, I performed it next Morning with the Knife and Saw fuccessfully, and there was no occasion for an Actual Cautery, for the following Powder stopt the Bleeding very quickly, by being strewed thick upon a good peice of Fuss-ball, rurgeon in the opinion of the Common pe

R Pulv. Luti. Vulgar. Joiners Glue 3x. Gumm. Arabic. Tragacanth, ana Ziij. rad. Consolid. maj. Ziiij. Pulv. Sympather. Zis. M. f. opa Vall Pulvis 1 All tongt na to

This is an admirable Powder for stanching Blood, as you will foon Bond experience by trying it. As I did upon the Patient, who was cured in less than eight Weeks. there is but one Bone; but in the Arm below the Ellion and in the

the other remains wholing of A A H O our swiffere or Giett, fome are broke to that chilly 1. A A H O or of the Bones tirek our

tirue one upon another; fometimes but one of them are bride and

Sometimes they are but just b

Fractures of the Bones in general, and in particular Cases: and how to prevent ill Accidents, that commonly attend such Misfortunes. Wound, Inflammation, or perhaps a Difforestion accompan

Radures are very common Accidents, but to treat them Artificial-Errors in Na-ly and to Set and Restore them gracefully, we find by experience is not every Chirurgeons Talent. Some know how to do it, but their Carelefness or overmuch Indulgence to their Patients, makes them often guilty of shameful Miscarriages. Sometimes the Patients themfelves are in fault, by loosening the Bandages, leaving their Beds too

foon, or using their Limbs before the Callus is confirm'd, and strong enough to endure the Weight of the Body, and from hence comes weak, crooked, and contracted Members. Others also injure themselves by Methods utterly opposite to the other, for they give up themselves to an affected Lazines, and for want of using their Limbs, by degrees after a Fracture, and putting themselves forward, they grow stiff, numb'd, or so filled with Humours descending into the parts by a Sedentary and unactive Course, that they are scarce capable of Motion.

Patients Carelesness of themselves.

In the Year 1694. I knew a certain person, that quarrelling in the Night fell down and broke his Right Thigh Bone short in peices like a stick, about a hands breadth from the Hip. The Bone was fet again by a Chirurgeon, tho with great difficulty, the Patient being a very groß Fat Man; and in twelve Weeks was fo well cured, that the Bones had fettled a Callus, and stood regularly one upon another; so that no Fault could be found with the Chirurgeon, as was teffified by the President himself; but the Patient was a Lazy, Idle, unweildy Mass of a Man, and would not stir, or put his Foot to the ground, whereupon his Leg grew Numb'd and stiff for want of using; which he imputing to the Chirurgeon's want of Care or Judgment difmiffed him. and put himself under the hands of a Woman, a Hangmans Wife, for a quarter of a year, who treating the part with hot Oils fo Shurnk up the Sinews, that the Leg grew horter by two Inches than the other. He could put his Toes to the ground but not his Heel. Upon this, resolving to revenge himself upon the Chirurgeon, he sued him at Law; but could recover nothing of him, for he had Witnesses enow to clear him from any foul Practice; and every Body that understood it. were fatisfied of his fair dealing; but the Patient having an excellent knack in fetting off a Lye to the best advantage, it prejudiced the Chirurgeon in the opinion of the Common people; as it often happens, that Physicians and Chirurgeons are blamed for the faults of the Patients; and what else could be expected, when this Patient left an Able Chirurgeon, to put himself under the hands of an Ignorant, Nasty, Filthy Jade of a Woman.

Difference between Fractures.

There is a great difference in Fractures, in respect of the Part where, and the Manner how they happen; both which ought to be well considered by the Chirurgeon. In the Thigh and upper part of the Arm, there is but one Bone; but in the Arm below the Elbow, and in the Legs are two. Sometimes they are but just broke, and the Bones continue one upon another; sometimes but one of them are broke and the other remains whole; some Bones have only a Fissure or Clest; some are broke to that degree, that the Splinters of the Bones stick out at the Wounds; and others are broke Sleping with a Fissure. The part must also be observed, for the more Noble and nearer a Joint the Fracture happens, the more difficult it is to Cure; and if a Contusion, a Wound, Instammation, or perhaps a Dislocation accompanies it, must be treated after another manner than a Simple Fracture. The last Consideration is, by what Instrument or Accident the Fracture was made.

Accident atten-

Accidents that Commonly attend Fractures, are great Swellings, Pain, Twitchings, Cramps, Heats, Inflammations, and, if not timely prevented, a Gangrene and Mortification; often occasioned by too hard binding up the part, uneasy Lying, and the Applications of

hot

hot Plaisters and other Medicines. Such Fractures wherein the Bones stand upon one another admit of an easy Cure; but when the Splinters flart through the Wound and must be taken out, where the Fra-Gure is near a Joint, accompanied with a Contusion and Swelling, or a Diflocation of the next Joint, which causes such intolerable Pain, that the Fractured Part cannot be extended, it often ushers in

Cramps, Convultions and Death. 181 32

The Cure of Fractures in the Arms, Thighs and Legs, chiefly con- The Cure. fifts in these particulars, viz. In setting the Bones strain their proper places; in keeping them to by good Bandages; in preventing ill Accidents, and laying the part in an easy place and a regular Posture; of all which I shall treat distinctly and fully. First the broken Bones must be set, by extending the part with the help of four strong Men, two of which must take hold and firetch out the part above the Fracture, and the other two the part below the Fracture, with an equal Force on both fides as far and ftrongly as is necessary; while the Chirurgeon in the mean while, purs the Bones into their right places. If you cannot do this with your Hands, as in the Thigh and near the Hip, then you must use large Ligatures, and the Glossocomia, or the Wooden Machine, by which Arms and Legs are extended. When the Bones are rightly Set, which you may casily perceive by the Streightness, Form and Agreeableness of the part, and which the Chirargeon may feel with his hand, or by gently stroaking down his right Thumb in a Streight Line directly over the Fracture; for if he finds nothing uneven under his Thumb, the work is done as it ought to be.

Then extend the Part again very Moderately and Even, and apply After the Bone your Plaister round the whole broken Part, not one fide of the Plaister is fit. over the other, but let it want about an Inchand half of coming together. Over that apply a double Linen cloth larger than the Plaifler, moistened in warm Wine Vinegar, and then wind it round with a Roller 3 Fingers broad, moisten'd also in Wine Vinegar, a hands breadth above and below the Fracture, moderately hard; but by no means exceed, lest you promote unhappy Accidents; for the Wet Cloths will fhrink when they dry and make the Bandage fit closer. To prevent an Inflammation lay upon this Ligature, Splints of Past-board or fuch like matter; if the Fracture is on the Arm three or four, if on the Leg four or five, two Eingers broad, and as long as they may reach a hands breadth above and below the Fracture, being first formed in hot Water, and wrapt up in fine foft Linen Cloth, but leave the space of an Inch between each of them; bind them twice round gently with a Filler an Inch broad; and lastly, lay the Dressed Member in a Case, or on a Leather Cushion made for that purpose; and if the Fracture is in the Arm, let the Patient hold the Thumb of that Hand always upward, and if in the Leg his great Toe of that Foot in the same posture, and it will keep the Part and the Ligatures in good Order. Above and below the Bandage apply a Defensive Plaister, to prevent a Defluxion of Humours, which may Cause an Inflammation or a Swelling. Leave it thus for three or five days together, if no ill Accident causes it to be opened fooner; but take Care to look once or twice a day, to fee your Patient continues in a fitting Posture. If the Fracture is ac- with a Wound. companied with a Wound, leave a space between the Rollers, that you come to drefs it every day, without unbinding the whole Member. The Fracture Plaister which I have so often mentioned, as having done

me good Service, and which till now I have keep as a great Secret, is what follows; and searly Care a but; swhat follows; and searly Care and must be taken out, where the Francisco where

Be Resin. puriss. thiss. Terebinth. 3x. pulv. rad. Consolid. maj. 3iiij.

Banb. Caprin. 3iij. Bol. Armen. ppt. 3ijs. Tutiæ ppt. 3js. Lap.

Osteocoll. 3iijs. Sandal. rubr. 3iij Succin. Mumiæ ana 3j. Terr.

Sigillat. 3x. Misce siat Emplastr. secundum Artem.

In the Camp I always made nie of the following, in all kind of Fractures what loever, and with incomparable Benefit, but fee that your Munice and Sanders are true, rightly prepared, and well powdered. And of the control of the cont

This Plaister will neither cause Hear nor raise Blisters, and if you give it a true Preparation, it will recompence all your Cost and Labour. The Ointment of Turty I have so often mentioned, as a Sovereign Remedy against Heats, Pimples, Blisters &c. is made as followeth; no it a snot a know and dominate and an analysis and the property of the plant of th

and reflix Re Unquent. de Lythargyr. cum Ol. Amyodal, duc. fact. 3vj. Tutia ppi.

But if the Patient cannot luffer a Plaister on the Part, prepare the following Powder, mix it with the Whites of Eggs or Traggeanth water to a kind of Mass, which spread thick upon Linen, and apply it to the Frattured Part.

and of sololo in egebrass od estem bas vib vod nedw saint line to b & Pulv. rad. Confolid. maj. Barb. Caprin, and Zij. Terr. Sigill. Lap. edu no li Chrystall. ppt. and Zijs. Gumm, Tragacanth. Ziljs. Cerus. Zijs. does vem Sangu. Dracon. Zij. Oliban. Mastich. and Zij. Sandal. rubr. Muni bemilo mise and Zs. M. f. Pulvis. woled bas evode sibsend about a confol edu evode sibsend about a confol edu evode sibsend about of

To strengthen the Parts.

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After the Bour

Proceed to the rest of the Cure with the Fracture Plaister, till you are certain the Callus is confirm'd and the Bones united, and then you may suffer your Patient to rise now and then, and try to stand upon his Foot; and if you find the suffering Parts are much weakned, use good Fomentations and Balsams to strengthen them, and instead of the Fracture Plaister, use the following Emplastrum Sandalinum, which will wonderfully strengthen and comfort the Sinews.

Refin. Ceræ ana thij. Terebinth. ft j. Ol. Lumbricor. Laterin. and of the 3ij. rad. barb. Caprin. 3jfs. Confol. maj. 3ij. Aristotech. long. 3j. os si su Mumiæ, Gumm. Arabic. an 3jfs. Sand. Rubr. 3vj. Citrin. 3jj. uov sait Mastich. Myrrh. Oliban. ana 3ij. Lap. Osteocol. Succin. and 3fs. radman Terr. Sigillat. rubr. 3ij. Campbor. 3fs. M. f. Empl. E. Art. 2000 and guivan as banoimem natio of event land with a marie as file.

In July, 1693, a piece of Pillar in a Burgermafters Yard in this Observation. Town, falling upon the right Leg of Maria Dittrichs, a poor Washerwoman, who had been washing in his House all Night; it broke both Bones in pieces, two hands breadth above the Ancle, and from thence to the Knee, those Fociles were much broken and flue tered, and the Muscle of the Calf of the Leg was grievously bruised. The Ande was also broke in two feveral places and Diflocated besides. The Patient had lain in a fainting Fit sometime before, and continued in it when I came, and when the Fit went off was feized with a Tremling and bled abundantly, for many Vessels were torn and bruised in pieces, especially the Vafa Cruralia, the end of the Musculus Peroneus, and on the right fide below the Musculus Sacrocnemius, and upwards on the Calf of the Leg the Musculus Tibialis, were all in a Tattered and miserable Condition. Considering the dangerous case I did the best I could, and fet the Bones and every thing elfe in as streight a Line as as the Circumstances would permit. The great Pains, Swelling and Inflammation would not fuffer me to make a regular Extension, nor could I fet the Ancle and Bones fo well as they ought to have been; for it was the most deplorable case that ever I beheld. I could use no Fracture Plaisters or Splints to it, for the whole was like a Quagmire and funk and shaked if it was but touched. However when the Contused Flesh and some of the Splinters of the Bones were separated, it look'd as if Wolves had been gnawing at it. The poor Woman fuffer'd every thing with abundance of Patience, but not without extraordinary Pain. The Cure lasted twenty Weeks; but with great Pains and Diligence, I brought the Leg into fome tolerable Order; the Patient, to my great Admiration, has at this time fuch good use of that bruised, broken, shattered Leg, that she can go well about her Bufiness and stand whole Nights at the Wash-Tub as formerly . Which should admonish every Chirurgeon not to despair of a Cure, how dangerous soever the Patient's condition is, for Nature works Wonders, when affifted by Art and Industry, as in the case before us, for tho' the Part was exreamly weakned by the loss of so much Flesh and many Splinters, and the Bones bruised and Broken almost into an hundred pieces, yet the Patient came to be perfectly well again. By which you may perceive what the Sanative Conftitutution of the Patient, and the Care and Diligence of the Chirurgeon nion and Reftoration of the lexated Bones. 4. In amorbing of slds si ges to keep them firm when they are joined. 5. in preventing or re-

cines: at each of these in Order. Thirruments used in the VIX es and the Hy Dust it would be imposted to be in the second every one thinks he has the bell and

Luxations, Dislocations, and Sublocations in general; their Differences, Causes, Signs and Cure.

Dissociation is an Accident by which the Head or round part of what it is, the Bone is violently forced out of its hollow Part or Sinus, and thereby rendered unable to perform its regular Motion. There is a great difference between a Dissociation in the Arm and in the Leg. Some have a large Sinus and Head, as the Shoulder and Hip, others are Gib-

bous and joined flat, as the Elbow, Knee, and Ancle stherefore the latter have feveral Bones joined to them for their affiliance, that they may not eafily be put out of Joint. As for example, the Knee has a round kind of Bone call'd Patella or the Knee-Pan. The Elbow Prominentiæ, vel Epiphyses externæ & internæ; by which especially the great and crooked process of the Os Radii contributes much to an a-Give and nimble Motion; and the point of the Elbow has its Os Stylaides. The Ancle Joint has two Knuckles, on each fide one, Malleoli wel ApT pendices externæ & internæ, which help to fortify and Anengthen it At the Joint of of the root of the Hand are the Os Ulna & Rudii, and alfo its Malleali & Epiphyfes. Near the Radia of the Hand and Foot are feveral Bones joined together, which are not eafily put out of Joints the Calf of the Leg the Mufenles Tibialis, we senedged somisemed tight

Two forts Diflocations.

There are two kinds of Dieflocations, viz. Perfect and Imperfect the Perfect are called Luxatio, when the Bones are quite out of their Pla-I ces, and the Imperiect Sublixatio, when the Bones are only moved a little out of their Places, and fit upon the Edges of the Acetabula, for want of Strength to force em quite out. It must alfo be confidered, whether the Luxation proceeds from fome external vice lence or an inward Defluxion of Humours upon the Joints and whether the Head of the Bone is moved out of its Cavity upwards on downwards, because the setting of the Bone again must be ordered were feparated, it look'd as if Wolves had been gna.ylgnibroose

Signs of a Dif-

The Signs of a Diflocation are apparent to one's Eyes, except it be in the Hip, or in very Fat and Gross bodied Persons, for then it rem quires a more diligent Search, tho it may be inspected by the uneafed nels of the Joint and Lamenels that attends it. The Chirurgeon may also perceive a height or rising in the place to which the Head of the Bone is moved; and on the opposite fide a hollowness or dent, which was not there before; you may also know it by the dispreportion of the Limb, if firetched out and compared in length with the others Also from the Pain you may conclude a Dearticulation, for the place! whither the Head of the Bone is forced, is excessively Painful, because it presses upon the tender Veins and Muscles, and the Figure of the Joint will not a little contribute to your information, will me omi florida

The Cure.

The Cure confilts in five particulars I. In the use of proper Inftruments. 2. In a regular extending the Diflocated Part. 3. In a Re-us nion and Restoration of the luxated Bones. 4. In convenient Banda-i ges to keep them firm when they are joined. 5. In preventing or removing ill Accidents, and strengthning the Part with proper Medicines : of each of these in Order.

Instruments to be used.

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Instruments used in these Cases are so many that it would be imposfible to describe them all, because every one thinks he has the best and therefore flights and despiseth others; tho' upon tryal there are few that are fit for use. The new invented Glossocomium at Augsburg and Nurremburg, which they fay a Child may govern: and the hollow and bended Instruments for the Dislocation of the Hip, tho' they cost a great Price; are neither of them comparable to the inframent of Hypocrates and Panaus called Ambi. The Glaffocomium Tabulag. Fig. 16. is the best that ever bused, as well for the Hip as Shoulder if great difference between a Differation in the Arm and in the bely ylangir have a large Sinus and Elead, as the Shoulder and Hip, others are Gib-

If the Diflocation is in the Shoulder, and there is no Swelling or Extension of the Inflammation, use the Instrument called Ambi, Fig 17. if the Head of Shoulder. the Bone is forced downward under the Arms; but it be in the Sides, use the Glaffocomium, Fig. 16. for then the Extension must be more forcible. Reftoring the Head into its right place by the Ambi, is performed by preffing down the Ambi after the Arm is made fast upon it. which will put the Head again into its Cavity, but if the Head is moved fidewards out of the Shoulder, use the Instrument described in Fig. 16. apply it in the same manner; and when the Extension has been well performed, the Operator, with the help of the whole Inffrument, must press it with both his hands on that fide where the Head lies, and to force it into its right place again; withal let him bend the Arm downward with the Instrument, and it will be done more ly on the Joint of the Elbow, the Anele and Heel, ought to vilan

If the Hip is out of Joint you must use the Instrument Fig. 18. which being put between the Legs you must fasten it, and with it extend the Thigh as much as possibly you can, in order to to put the Bone into its right place again. It is a laborious undertaking, but to benefit your Patient you must not grudge the Loss of a little Sweat; tho' if the Patient is not Fat it will be done with leffer pains. But if all your Diligence is unprofitable, and the head of the Bone sticks to fast between the Os Ischiaticum, that it cannot be moved, or the Diflocation has been of feveral days continuance; excuse your felf from attempting it, and the Patient must be contented; for the Luxation of the Hip is hard to be restored, and is often but the effects of mere

The Elbow may fuffer a Luxation feveral ways ; Upward, down- The Elbow. ward, Inward and Outward; but downward is the most dreadful, and that which goes forward the easiest to be restored. The Instrument Fig. Ig is very convenient for the Elbow or Knee, for you may make it fast both above and below; extend it as far as is necessary, and the Chirurgeon may rely upon it, that it will do his bufinefs. Blanckard advifeth to put the Arm about a post or Pillar, and by that means restore the Elbow.

The Knee is reduced almost in the same manner as the Elbow, only The Knee. there is this difference that you may have no Bones backwards or forwards, except only the Patella, and for that reason may be sooner Luxated and Reftored than the Elbow, a redshirt supprist

The Astralagus and the Styliformis, or Bodkin-like Process near the Astralagusand Wrift may be luxated in all the former ways, and happen very often. To both those Joints may also occur an Impersect Luxation, where the Bones stand one upon another, and may be easily rectified; but if the Diflocation is complear, its fo much the worfe. However those Luxations all depend upon stretching and extending the parts very well. which may be done with ones Hand only, without the help of an Instrument, and so may the Diflocations of the Fingers and Toes. For this Fingers end a Chirurgeon ought to be very well skilled in Ofteology, and have Toes, a Skeleton in his Closer, which he should view very well before he undertakes the fetting of any Joint. The regular Application of Ligatures and Bandages, after the diflocated parts are reftored, is also of great consequence, to keep the Bones firm in their places, under the Shoulders, and in Diflocations of the Hips, between the Legs must be placed great Bolfters: In the hollow part of the Ham and Arm thick

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and large Compressors: On the Ancle, the process of the Hand, and sometimes on the Fingers and Toes, you must apply hollow Splints to prevent the Bones from starting out of their places again. Other parts must be rolled with a Ligature about three Fingers broad, and then give the Finger rest, and use it not till it's firmly settled, but then use it by degrees, and anoint it with Nerve Ointment, that it may not grow stiff or clumsy. The Hip cannot well be tyed, but with a broad Girdle you may make the Bolsters and Compressors sit very close to it.

How to Cure the Accidents that generally occur in Diflocations, I have already shewed at large in the foregoing Chapters, and the Medicines prescribed there, may be safely used in these cases: only under the Shoulders in the hollow part of the Ham, about the Hip, inwardly on the Joint of the Elbow, the Ancle and Heel, ought to be amointed with the following Balsam, to strengthen the Nerves and prevent the Stifness.

By Unquent. Nervin. Ol. Lumbricor. Axung. human. ana 3s. Ol. Laelail wendul. Rorismarin. ana 3j. Spir. Sal. Armon. Elixir. Balsam. L. Juncken. ana 3j. M. f. Balsam.

This Ballam applyed warm strengthens the parts, and prevents

Lameness. Over the whole Joint you may apply the following Plain

fler;

Be Succ. Chelidon. Alchimil. Plantag. Veron. Cicut. Aristoloch. long.
ana Zij. Aqu. Vitæ Dolæi, Zvj. Ol. Myrtill. Hyperic. ana
Zij. coque igne lento ad consistentiam Unguenti, postea adde
Ceræ alb. Ibjss. Resin. Its. Mastich. Succin. ana Zj. Myrrb.
Oliban. ana Zvj. Benzoes Zss. Baccar. Laur. Zv. Caryophyll.
Nuc. Moschat. ana Zij. Styr. Calam. Galban. depur. ana
Zj. rad. Aristoloch. long. Consol. maj. ana Zvj. Misce omnia

Dolaus his Aqua vita is thus prepared; mis boother at son?

B. Vini ardentis the Rosar. Melissa Rorismarin. Anthos. Cherisolior.

Utriusque Hellebori. Majoran. and mj. Cinamom. Zij. Nuc. Moslebar. and chat. Caryophyll. Gran. paradis, Piper. omvium, Cubebar. and Zij. Succ. Chelidon. Succ. Tapsi, Melissa and this. Ciner. Fabar.

There yet remains another Plaister, which is very good in all Dislocations.

Be Emplastr. Oxycroc. Sandalin. ana āxij. Diachyl. simpl. zvj. Ceræ
tbj. Pic, nigr. žiij. Ol. Laurin. 3iij. Gumm. Ammoniac. Galban.
Bdell. in aqu. vet. sol. ana žij. pulv. Piper. Zinziber. ana 3ij.
Gran. Paradisis, Laur. Juniper. ana 3iij. Succin. Myrrh. ana 3is.
Misce f. s. artem.

and These Medicines I think sufficient in any kind of Dislocation; and

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therefore will proceed to the v you, that a Fractured Collar Bone, may occasion a dislocated Shoulder, tho' it be restored; and that it will not continue in its place; but upon the least motion the Shoulder, will flip out again; and tho' the Fracture may be perfectly cured, yet the Shoulder can never be restored; as will appear in the following Hiflory. Leonbard Mader a Carpenter of about thirty years of age, falling from a New built House upon some pieces of Old Timber, not only hurt his Hip and Forehead, but broke in peices the upper Process of the Collar Bone near the Joint, and the Shoulder was also Dislocated. The Patient was brought to me immediately, but rather Dead than Alive, and I had no little trouble for half an hour to bring him to himfelf again. I applyed the Gloffocomium to the Shoulder and restored it, and afterwards Set the Fractured Clavicle in good order. I dress'd and rook care of the Forehead and Hip; and left any Accident should happen, I opened a Vein, and gave him a Dose of of the Pulvis contra Casum, upon which it mended; but in the night time he was generally Delirious and knew not where he was; but by the use of good Medicines this went off likewise. In this time I often enjoined the Patient not to use his Arm upon any pretence whatsoever, nor to lye upon it; but notwithstanding all I could say, as soon as he went abroad again, he would no more carry his Arm in a Sling; but thinking all was well, used it at pleasure; upon which the Ligaments grew weak and relaxed, the head of the Os humeris flipt out of its Cavity, and the Diflocation was worse then ever. In this condition I was forced to leave it, till the Clavicle was indifferently well healed again. Then I applyed Emollient Cataplalins to the Shoulder, and the Gloffocomium again; but all to no purpole, for it could not be ftretched or extended : I also applyed Hypocrates's Ambi to it, and used several means, but with no effect, for the Os Humeris was not to be moved, and therefore I was forced to leave it as it was. Thus the Negligence and Obstinacy of the Patient often causes unjust Resections on the Chirurgeon, tho' the Fault is wholly their own, for if one has Ten Patienrs that follows his Advice, he shall have a hundred that will cross him and do what they please, and yet Scandalize the Chirurgeon, for the Patient will never own himself in any fault. Bloody. Anoiativwithele Ungoen neura handsbreedth, and wrap

then lay the Weapon or tuck in a place esther too bor nor cold ; two Im come own to tust C H A P. as V. mione reals synthesistance

the Wound is well. The Parient in the mean name much keep the Remarks upon Cures by Sympathy, and those perform'd by Transgs , noon view boold or so plantation. sill su

I T's very well known to the Learned World, that upon the Invita- Weapon Salve, tion of Paracelsus, who was the first Inventer of the Sympathetical by whom in-Ointment, Petrus Servius, Professor at Rome, and the great English Digby, with feveral Physicians and Chirurgeons, set themselves on work to find out the true Preparation of it; that cured Wounds, only by applying it to the Weapon or Instrument that made it, or to some of the Blood or matter take out of the Sore; and fince their Eyes were witnesses that it did perform these things, their next Enquiry was

how this Medicine came to operate after for strange a Manner? which being a Nice Speculation, many have troubled their Brains to find out the reason of this peculiar Magnetical Quality, but to little purpose, having left it more intricate and perplexed than they found it, for among them all Sir Kenelm Digby has only given tolerable reason to render its Operation intelligible, to whose Learned Treatise I refer the Reader. Others have writ against it, and some think with reason el nough, as Willichius Libavius; but who can contradict Matters of Fact and daily experience ? or how could I have called this Book Chirurgia Curiofa, if I had faid nothing of it? I shall therefore first give you The Prescription the Preparation of the Unquent, and the Sympathetical Powder, and conclude with a remarkable Observation. It is prepared in this manner;

bluo Be Axung. Porcin. Sylv. ana Bij. per dimid. boram cum Vini Rubr. coquantur. nappen all opened as Vein, and gar. Cafeer, upon which it mended; but in the ough

After it has been boiled, pour it into cold Water, and referve that for use which Swims on the top, and throw away what links to the bottom. Then take Earth-worms well cleanfed with Red Wine and Salt, and dryed in a Pot well and close covered. Of these Worms take 3j. Cerebr. Porcin. Sylv. Sandal. Rubr. Mumiæ ana 31s. Magnet. ppt ziij Hæmatit. 3ss. Musc. e Cran. Human. Bij. Misce f. diligent. ad form. Unquent. The Moss of a Mans Skull that was either kill'd or Hang'd, and gather'd when the Star Venus is predominate, or at least two or three days after a New Moon, if it can be had, is thought very proper to be added to the other Ingredients. This Unguent I had always with me in the Camp, and have often used it with good success. Barbette, a French Chirurgeon, omits the Moss, and instead of it employs Man's Fat and Blood, and adds Oil of Linfeed and Rofes to it. I never made use of that, nor of several other Prescriptions which I have seen, being entirely satisfied with the Operation of that above inferted.

Barbette's addition.

The use of it.

This Unquent is to be used in the following manner ; Take the Weapon or Instrument wherewith the Patient was wounded, while it is Bloody, or instead of it a Stick put into the Wound that it may be Bloody. Anoint it with the Unguent about a hands breadth, and wrap it up in a clean Linen Rag or Paper, your hands being very clean, and then lay the Weapon or stick in a place neither too hot nor cold; two or three days after anoint it again, and fo for four or five times, till The Patient in the mean time must keep the the Wound is well. Wound clean, and cover it with a Fine Linen Rag, without applying any Medicine to it; but if it should chance to bleed very much, apply a peice of Fuss-ball to stopt it, and then proceed as before.

Oblervation.

In August 1676. at the beginning of the Siege of Stettine, Captain de Barke, of the Regiment of General Golzich, was wounded upon the Fore part of the Head by the Fall of a Grenado of three pound weight, which made a Wound upon his Skull as large as a Crown piece. It Bled extreamly, and the Grenado being made of Glass, it left Eleven pieces of Glass in the Wound. Having taken out the pieces of Glass, I flopt the Blood with my Powder. This Brave Chevaliere, about thirty years of Age, was fent the next day with others that were wounded to a place called Babne, near Griffenhagen upon the Oder, and com-

mitted to the care of one George Neudeck, Chirurgeon of the Donauish Regiment; but the Captain having a great confidence in me, and knowing what Cures I had performed by this Ointment, defired me to treat him in the same manner, and give him derections how to manage himself. The small peices of Glass, because but little Blood stuck upon them I put into Swines Lard, and put a small slick into the Wound make it Bloody; which I anointed every other day with the Unguent, and wrapt a Fine Linen Rag about it: Fourteen days after I faw him again, and the Wound almost healed, tho' he had applyed nothing to it but a Linen Rag, and that on the twelfth and thirteen days two other pieces of Glass came out of the Wound. In fine he was perfectly cured in a month and in five Weeks came again to the Army. In the year 1677. the same Gentleman, in storming the Poll-Schantze on the Damme was struck upon the Head with an Iron Grenado, at the meeting of the Sutura Sagitalis and Coronalis, which broke his Skull into a great many pieces, fo that as foon as I came to him he Dyed un-

my Hands.

The Sympathetical Powder, to which is ascribed the same virtue with tical Powder. the Unquent; besides which, it also Stanches Bleeding; is prepared of the best Hungarian Vitriol and Tragacanth, ground to a small Powder upon a Marble, each of them by themselves, and not in a Copper or Brass Mortar, lest it should attract some of their Noxious Qualities: When they are Powdered put them by themselves into a Paper, lay them in the Sun about the thirteenth of July when the Sun enters the Sign Leo, and continue it so till the twelfth or thirteenth of August, when the Sun enters Virgo; then remove them, mix them well together, and keep them for use in a Wooden Box. Sir Kenelm Digby takes as much Tragacanth as Vitriol; but I find by experience that the Tragacanth is too much, and binds up the Virtues of the Vitriol; therefore a Drachm of Tragacanth is sufficient for an Ounce of Vitriol. When you defign to Cure a Wound with this Powder, let some of the Blood of the Wound drop upon a clean Rag, upon which firew fome of the Powder. wrap it up close and put the Rag with the Powder into your Breeches Pocket; and to the Wound apply nothing but a clean Linen Rag, which must be repeated every Morning and Evening, and so continue till the Wound is quite healed, and then throw all the Rags into a River. This Powder is also very good in Old Running Ulcers, cures Stitches and Pains in the fides, if the bigness of a Pea be given in Water of Elder Followers, without the Tragacanth. I could mention several Instances of the Virtues of this Sympathetical Powder if it were not for Fear of being to tedious and tirefome to the Reader.

The Cure per Trasplantationem, is only moissening a small peice of the Cure by Wood in the Blood and Matter of the Wound and putting it into the Transplantarisa hole bored to the Sap in a Tree for that purpose, and then they ox. make the hole up again with a wooden Peg or piece of Wax, and Fancy, as the piece of Wood unites with the Tree, so the Wound will heal again. I never tryed it, but have been credibly affured that it always succeeds. They generally make use of a young Ash Tree; a Male Ash for Men, and a Female for Women. Some Dig a hole in the Earth, and put a Rag into it that has been daubed in the Wound, and then fet a young Tree upon it, and as the Tree grows they imagine

the Patient will recover. I know a certain Bath-keeper that has cu-

Etmuller

red many Persons of a Rheumatism and Arthritick Pains after this Manner; for my part, I have but little Faith in these Matters, and therefore leave every one to believe as they please

CHAP. XVI.

Of Chirurgical Infusion and Transfusion, and why they are in no greater reputation in the World.

Insussion and Here has been a great Dispute between Dr. John Daniel Major Transfusion, Professor of Physick at Kiehl, and Dr. Eltzholtz the King of Prusha's Physician at Berlin, who was the first Inventor of this way of Cure; they wrote against one another about it in the year 1664. and continued the quarrel till 1667. But Dr. Etmuller, disputing on this subject at Lipzig in the year 1668. fays that Dr. Wren, an English man, and Mathematecal Professor at Oxford, was the Inventor of it; after him it was practiced and Improved by Dr. Clark Physician in Ordinary to the King of England; and after them, it was foon taken up by Dr. Major; not long after by Dr. Carolus Fraccassatus Profesiorat Pifa, and at last by Dr. Eltzholtz, and Dr. Hoffman Professor at Altdorff. These Ingenious and Learned Men made their first Tryals upon Dogs, and only with Spring Water; afterwards with small Wine and Spanish Wine. Then proceeded to purging and vomiting Medicines, which being Injected into the Vena Cruralis or Thigh Vein, they perceived it to have these different effects. Water caused a cold Shivering or trembling. Wine made them tumultuous and tumble up and down like Drunken Men. Purging Medicines being injected they Purged, and Vomited by injecting the Infusion of Crocus Metallorum. Opium made them fleep, and too large a Dofe took away their Lives. Aqua Chrysulca being injected into their Veins, the Blood presently coagulated, and they dyed like Men in an Apoplexy; and the like they did upon the Injection of Spiritus Nitri vel Vitrioli. Dr. Etmuller fays that a quantity of Oil of Sulphur being injected into the Vena Ingularis of a Dog, he dyed not, and it being repeated he only grew fo extream Hungry that he eat all they could give him Oil; of Tartar being injected into another Dog, he fell a Capering and shewed a thousand Antick Gestures. A Decoction of Arfenic in common Water being exhibited in the same manner, they were reized with Miserable Symptoms and Dyed full of Torments.

Men. Experiments upon Dogs succeeding very well, they made Tryal of it upon Men, injecting into their Veins in a Fever Plantan Water, sometimes mingled with Aqua Cardui Benedicti, upon which the Patient was immediately well again. For pains in the Head they used Aqua Marjoranæ; for the Scurvy Aq. Cochleariæ; for the Stone Snail Water, and at length all things that appropriated to the Diseases they had to deal with. But sometimes Waters being too weak, they made use of more Spirituous Liquors, of which Dr. Major made feveral successful Experiments. He always added some Resura Gialappæ, which purging and Vomiting the Symptoms abated and the Distemper went off. Dr.

Etmuller fays that a Maid being afflicted with a Falling Sickness from her Youth there was injected Refin. Gilappæ gr. vj. mixed with Spirit Lilior. Convalliorum, which gave her but one Vomit, and yet freed her from this Disease for some Months. At Halberstadt in the years 1679. and 80. I injected into two Patients, who had for many years been troubled with the Falling Sickness, Spirit, Grant and Rad. Paonte 31. mixed with Spir. Lilior. Convalliorum, who were both perfectly cured with it. But I had another Woman Patient, whom these Medicines would not wholly prevail upon, for the the Epilepha feemed to vanish for three Months, yet after that it returned again : whereupon I injected twice Agua Hirundinæ mixed with Sal. Volatil. Succin; after which the Woman was never troubled with it again. It was also twice tryed upon my felf; the first time when I was grievously afflicted with a fort of a Leprofie; but then it was not Artificially performed. The second time was at Anzlam, where I was fick of a Violent Fever, and ordered Aqua Cardui Benedicti to be Injected, upon which I was wholly

delivered from my Fever in less then two days time.

The Operation is performed after this Manner. The place being How it is perchosen, which is generally the Arms or Legs, Tye them with two formed. good Fillets, one above and the other below, as the Old Chirurgeons used to do, or as those still do that let Blood with a Flegm. Then open the Vein and let out some Ounces of Blood, to empty the Vessel that it may the better receive the Liquor to be injected; then put the Liquor into your Syringe, and put the Syringe, which must have a handsom crooked Pipe, into the Orifice, and loofening the uppermost Ligature or Fillets inject your Liquor gently and by degree, tell it is all in. When you first put the Pipe into the Orifice apply round it good store of Cotton, to hinder the Liquor from running out again. Your Syringe must be big enough to hold an Ounce; and when you draw out the Pipe, Clap your left Thumb upon the Orifice, and with your right hand loofen the lowermost Ligature, applying first a small and then a large Compressor made of Fine Linen, being both first moistened in Vinegar, and then bind it up as usually. Some instead of a Syringe use a small Clyster pipe and Bladder, which may do well enough, but in my opinion a Syringe is better. If the Vein swells upwards; stroke it gently over with your Thumb, and that will disperse it.

That this Chirurgia Infusoria is beneficial in dangerous Diseases, where the Patient must be speedily helped or all is lost, is very reasonable to believe; because the Injected Liquors presently mix with the Blood, are fuddenly conveyed to the Heart, and fo through the whole Body, without fuffering any alteration by the Stomach or the feveral Fermentative Juices, but works immediately upon the Difease against which it is levelled: wherefore I once again admonish the Chirurgeon to inject the Liquor leifurely, for otherwise it will not mix so well with the Blood as it ought to do, but continue about the Orifice and cause an Apostema; which mismanagement, has not a little contributed to the decrying and disuse of this admirable Chirurgia Insusoria.

What Liquors ought to be injected is the next particular, and in that the Chirurgeon ought to take Advice of an Able Physician, and also to prevent any accidents that may happen. Purging and Vomiting Medicines are to be avoided, because they generally leave a Malignity behind them; and for the same reason, you must forbear the

use of Diureticks and Nephriticks; but Alexipharmicks, Comforting and Sweating Medicines may be used with Safety and Success. For a Sudorifick Dr. Major commends Spirit. Salis Armoniaci 3/s, because it contains a volatile Alkali in it, without any mixture of an Oleous matter. Dr. Etmuller also recommends Cornu Cervi & Spirit, Sangubumani, mixed with Spirit. Vini Camphorati, to revive the almost extinguished Natural Heat, and bring the Patient to a Sweat; but lest those Spirits should coagulate one with another, he mixed two or three Drachms of clear Water with them. He fays further that the Spiritus Salis Elfentificatus Cornu Cervi, made with Camphire, is an excellent Remedy in malignant Fevers, if two or three Scruples for a Dose was intermixed with a little Water. To comfort and Strengthen the Patient, they used Amber, Cinamon and confectio Alkermes, and also Sal volatile Oleosum Sylvii, Sal volatile Cornu Cervi, and Spiritus Cinamomi cum Oleo Succini. Opiates may be also used with great Benefit, if they are well corrected and given in an exact and due quantity.

Chirurgical Transfusion was also for some time in great vogue and re-

Chirurgia Transfusoria.

putation; but fince it could not be always practiced, and that Patients were unwilling to submit to it, it foon grew out of use; but I am of Opinion if Dr. Major, Etmuller, Eltzholtz, Dr. Wren and Clark had lived somewhat longer, it might have been further advanced in the World; but they dying the Operation began to be neglected and dyed foon after them. I try'd it on a Merchant's Son at Berlin, who for feveral years was afflicted with a Leprofie; I gradually drew out a great quantity of his Blood, and put into his Veins the Blood of a Lamb; by which means the Patient was happily cured, to the admi-How performed, ration of several ingenious Persons. Transfusion is performed in this manner. Generally the Legs or Arms are chosen for this Purpose: in the Arm the Vena Mediana, and in the Leg the Vena Cruralis; from whence you must take as much Blood as the Strength of the Patient will permit. The Arm or Leg, where the Vein is to be opened, must be tyed fast below the opening with a strong Fillet. Then you must have in readiness an Instrument which is a kind of a Tube, surrounded with a Linen Cover, in which Cover you must put some warm Water to hinder the Blood from coagulating or congealing, which paffes through the Tube. This Tube must have on each side a fine Silver Pipe, one of which must be put into the Vein of the Man and the other into the Vein of the Beast, from whom the Blood must be transfused, the Hair or Wool of whose Neck must be cut away and a Fillet bound about its Neck, and the Creature tyed fo fast that it cannot move one way or other; then the Vein being opened both in the Man and Beast, the Blood of the Beast will rife into the Tube and empty it self into the Vein of the Arm; and so much for this Operaration.

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ting Medicade are to be avoided, because they proposedly leave a Malightly behind them; and for the tent celes, you much forber the

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What it is,

CHAP.A XVII.

Of Fontabels or Illues, how and where they are to be made ? in what they case are beneficial, and what Accidents may happen in the constant use of them?

Cruel Cauteries were formerly much in use among the Eq. O make a Fontinel or Iffue is no considerable piece of Art; but to fet it in a proper place is all the Skill. The Antients made them between two Muscles on the outside of the Arm, or Leg; but now they fet them in the infide of the Arm or Leg, between two Mufcles finding by Reason and Experience that they run better there than on the outlide. There are leveral ways of making an Issue; but having marked a place and then putting a Needle through the Scarfe Skin, and cutting it off under the Needle with a pair of Sciffors, big enough for a Pea to be put into the Orifice thus made, first put a White Pepper corn for two days, afterwards a Pea to keep it open, and your Work is done, without any greater pain or trouble than pricking with a Pin; whereas Actual or Potential Cauteries are tedious, painful and dangerous. If the Issue runs well continue the Pea, if not, make small Globuli of the following Mass, and they will make it run again. Trees like a Fungus, till

R. Emplastr. Diachyl. simpl. Biiij. Ceræ 3v. Pulv. Cantharid. Bvj. Euphorb. Agaric. ana 3j Myrrh. Diss. Misce f. Massa cum f. q. Auch as Ol. Myrtillorum. and find out to ?

Iffues are made in many Infirmities and Difeases; especially in great what they are pains of the Head, in several Distempers of the Eyes and Teeth, Froper for. Noise and Deasness of the Ears, the Gout, old Ulcers, Fistula's and in all manner of copious Defluxions of Humours to what part foever; for tho' they do not always free the Patient from his Diftemper, yet they give some ease, by carrying off a great Mass of Acrid and Acid Humours. They are used also in Apoplexies, Falling Sickness, Dizziness of the Head, in tumified Legs, Ischiatick Pains, Lameness, and in feveral other Difeases, wherein if they have been of long continuance, they are very Beneficial.

If the Issue is to be made in the Arm, let it be in the Left if the Ma- When lady will allow it, for there it's less troublesome especially to Working ought to be People. Let the place be the infide of the Arm, between the Musculus Tibialis and Garstemnemius. In some cases they are made above the Knee, but this feldom happens, and of Issues in the Neck and upon the Sutura Coronalis, I have already discoursed sufficiently in the first Book, Chapter the VII. amed don't a gava l brawni and the aniamer

appear, like Wool, infomuch that none would ever take it to have been

Of this Wool the Indians, chiefly the lanabitants of Sarawand China. form between their Singers a Pyramia about the bignets of half a Mute meg, nerrow at top and broad at Bottom that it may fland felt upon the Skin; this being placed where it ought to be, they fer it on fire with a Wax Candle, which quickly burns and Smoaks (but never flames) and

CHAP. XVIII.

Some Remarks concerning Cauterizing, and the use of the Moxa they case are beneficial, soon that purpose, happen in the

Ctual Cauteries were formerly much in use among the Egyptians in feveral cases; and so continue to this day among the Indians, from whom we received the Moxa and its use. But now they are feldom applied, unless it be to stop the violent Bleedings of Veins or Arteries, or to gain a good bottom in pertinacious Ulcers and Fiftula's, and chiefly in a Polypus, Fistula Lachrymalis, a Cancer, Noti me tangere,

Ozena, and such like inveterate and contumacious Accidents.

Moxa whence it comes.

What it is.

Moxa came first to us out of India about thirty years fince, and was then mightily cryed up for the Cure of the Gout, Rheumatifm, Pains in the Limbs, Head and Teeth, the Cramp &c. Bishboff first published its Virtues and Use in a curious Treatise : afterwards Dr. Gahema, in another Difcourse; but chiefly Ericus Mauritius in a very ingenious Letter to Dr. Scheffer, which may be seen in Miscelan. German. Curios. Decur. 1. Ann. 6. Objerv. 218. whom Dr. Eltzboltz immediately followed with another curious History. It was first thought to be a Matter growing on Trees like a Fungus, till Dr. Cleyer coming out of India, awakened us out of that Dream; thewing that Mexa was a prepared Wool, from an Herb not much unlike our Artemifia or Mugwort, only it had fomething a Broader Leaf. For the first three er four years it was highly extoll'd, even to a Miracle, and was so very dear, that I gave twelve Crowns for half an Ounce of it, and found that in pains of the Gout and Ischiatica, that had not been of too long continuance, it took them away immediately. Then its Praile began to ring through the World. insomuch that I have sold to some Chirurgeons a small top of it for half a Crown, and that esteemed a favour also, it was so dear; but when it grew more common and Cheaper it began to be abused by the Confident and Ignorant, and seeing it would not Cure all Diseases whatfoever, they thought it good for nothing, and fo the Noble Moxa loft its Reputation by the Silly Applications of Chirurgeons, that knew not where to place it, how to manage it, or repeat it in contumacious cases; for if one top would not do, they seldom attempted farther, but fell to railing against it, when they should have blamed their want of Confideration.

How prepared.

The Herb Mexa is thus prepared; dry the fine tender Sprouts of it very well in the Shade, stamp them with a Wooden Pestle, or rub them between your hands till the Outward Rinde is separated, and nothing remains but the inward Lanugo; which being diligently Kembed will appear like Wool, insomuch that none would ever take it to have been an Herb.

How to be ap-

CHAR

Of this Wool the Indians, chiefly the Inhabitants of Japan and China, form between their Fingers a Pyramid about the bignets of half a Nutmeg, narrow at top and broad at Bottom that it may fland fast upon the Skin; this being placed where it ought to be, they fet it on fire with a Wax Candle, which quickly burns and Smoaks (but never flames) till it is consumed to Ashes, which being blown away, leaves a yellow

ipot

spot in the place where the Moxa burnt, which always continues. though you repeat the Operation several times with new Maxa. Pain of this burning is very inconfiderable and continues not a quarter of a Minute, and then the pain vanisheth also. When the Burning has been regularly performed, apply to the yellow fpot some bruised Gartick and Diachylon, or some other Mollifying Plaister over it, and let it continue on eight or nine hours; then take it off and cut the Blifter if there is one; if not, lay the rough fide of a Plantan Leaf to the burn'd place to keep the Wound open, for the smooth side I know by experience will heal it.

The Virtues and Use of this Moxa consists in five particulars. First, Its Virtues. It may be applyed to any Joint or part but the Eyes, tho' there be a Swelling or Tumor. 2. It not only opens the Pores but takes away the Pain from under the Perioftium, where Arthritick Pains a generally feated. 3. It corrects Malignant, Acrid, and foure Humours, and dissolves and attenuates Oedematous Tumors. 4. It mitigates and takes awy the Malignant and Noxious Humours which are chiefly contained in the Perioftlum. 5. It not only exhales Vapours and Humours from the affected Parts, but also strengthens them to resist the

further Affaults of any Humour. Ilw ow , out out rot again young

The Moxa must always be apply'd to the place where the Patient feels most Pain, except it is in the Eyes, Nose, Ears, and Privy Parts, which must be carefully avoided least you raise a Spirit you cannot eafily lay again. Bishoff fays the Moxa may be apply'd to all places without distinction or danger, yea in the Parts where there are many Arteries, Veins, Sinews and Aneurismata; but you had better believe him than make the experiment. If the Moxa is to be apply'd to a Hairy Part you must shave it off; or if to a place that has been daubed with Oils, you must make it clean before you apply the Moxa, for otherwise it will do no good. o augid brawni and go

In the beginning of March 1692. I was affaulted with a violent and An Inflance in continual Pain in my Left Hip, Malum Ischiaticum, to such a degree that even Life seemed a Burden. Dr. Preuss and Dr. Paulus used their utmost Endeavours to give me Ease, but to no purpose; for my intolerable Pains did but increase the more upon me. At length, after fourteen days torment, I proposed to the Physicians above named, the application of Moxa, to which they confenting, Mr Dietrich Meyer a Chirurgeon here, apply'd it next Morning to the part affected, which was upon a Joint. As foon as the Moxa burnt to the Skin, I felt a burning pungent Pain, which shot like Lightning into the Joint, but afterwards was tolerable enough, till it was quite burned to Ashes, at which inflant the Pain left me, and I felt none all day after; but at Night the Pain returned and feized my Ancle on the fame fide. to that extremity, that it cast me into Convulsions, and God knows I endured a Milerable Night; in the Morning the Moxa was apply'd again a little above the Ancle where the Pain was greatest, the Operation was dextroully performed; the Pain left me, I fell afleep and it never returned again. Upon the burnt Place Garlick und Plantan Leaves were apply'd; but the Moxa being burned just upon a Tendon, it confined me to my Bed more than five Weeks time, and proved a Miserable Sickness; from which I was freed by the Moxa; and think my felf obliged to infert it here, that its due Praises might not be GHAP. stifled by Men of naughty Principles.

The Origins of

foot in the place where the Mona burnt, which always continues, though you repeat the Cortion every times with new Mann. The Pain of this burning is very meoniderable and continues not a quarter

Admonitions and Remarks about Paring Nails, Cutting Corns, and the bard and Callous Skin of the Feet ; to prevent ill Accidents or Mortification, and what is to be done if such Accidents should burn'd place to keep the Wound open, for the smooth fide naddad

OM E rare Examples having occurred in my practice, concerning Nails, was the Motive to discourse somewhat breifly upon them, to the advantage, of the Inquisitive Chirurgeon. I know some will little value what can be faid on this subject; but they only proclaim their own Ignorance of the Dangers which attend the ill management of those parts; two Dreadful Examples whereof we have had, in Major Gruntz at Gaffron, and the famous and Learned Puffendorff at Berlin, who were both fnatch'd away by painful and miferable deaths, which happened by the paring of their Nails. To prevent fuch unhappy things for the future, we will consider the Origine, Use, and Nature of Nails, that every one may know the Dangers to which The Origine of they are Subject. Galen, and many other of the Ancients, were of opinion that Nails were generated out of Crass and Excrementitious Moi-Stures. Hippocrates, Celsus &c. thought that Nails were generated out of a Crass kind of Excrement, but not of such Liquors as passed through the Heart by the Arteries. Bartholinus lays that Nails are bred of that Excrement which was cast off by the Bones and Callous parts, and of this opinion was Vestingus, Riolanus and Placentinus. I wonder why that famous and Ingenious Anatomist Bartholinus has observed nothing concerning the inward Figure of the Nails; fince the Knowledge thereof is of fuch great importance. I was long in doubt, whether it was true which Blanckard fays, that Nails are inwardly hollow, and composed of a great mnay Pipes and Tubes standing near one another; till about four years ago, being called to a great Princess who firiking her hand by chance against a Wall, her middle Finger became much swelled and Inflamed, and a few days after her Nail came off: then to my great admiration, I faw, by the help of a Microscope, that many and almost innumerable small Nervi were contained and incorporated in the small Tubuli of the Nail, which as soon as they drew back caused the Nail to fall off; for by those the Nail was fastened, nourished and fashioned; every small Tube of the Nail having its Nerve, going in a straight Line to the top of the Nail. From whence we may conclude, that the Nails must necessarily be very sensible, subject to various Accidents, and sometimes are the certain causes of Death.

Theufe of them.

Nails,

The use of the Nails are within the reach of every Eye. They strengthen the extream parts of the Fingers and Toes, are an Ornament to the Hand; shew the Costitution, Health, or crazy temper of the Body; and are of such an admirable contrivance, that Vellingus says, their Texture is so wonderful and furprizing, that these alone are sufficient to transport Men into Extasses of Praises, in honour of our Wise and and Omnipotent Creator.

I only mention the Curiofity of their Texture, to flew that cutting

loged by Men of neughty Principles,

of Nails, if not prudently and Cautiously done, the small Fibrie and Vessels are so tender, that if they are never so little hurt, they often cause violent Inflammations, Gangrenes and Death, which more commonly happen to the Aged than to younger fort of people. Once a Quarter I cut the Nails of a great Man and Magistrate of this Town, that are so extream hard and thick, tho fet in warm Water an hour together, a Knife will hardly touch them. As far as his Feet are fet in Water they swell, by the Blood and Juices running to them; when they are out of the Water, and kept in the cold till the Nails are cut, they fwell worfe, grow as hard as a Stone, and cannot be fet to rights again in less than eight days time, to the great Molestation of the Patient now all this came to pass by the Circulating Juices slowing to the Warmth in the Legs while in the Water; but cooling again the Juices stagnated and settled in the parts and caused the Induration and Swelling. Now should one happen to cut any of the small Nerves or Vessels, the Stagnation would increase and dangerous Symtoms would appear. All which confiderations, as I faid before, should arm the Chirurgeon with all the care and Caution imaginable; for if a feeming flight hurt should happen and but upon one Toe, you will scarce be able to prevent it from infecting all the rest, to the peril of the whole Foot and Leg alfo.

From the Nails I proceed to Corns on the Feet and Toes, which are Corns on the fmall Callous Bumps feizing the Joint; have a pointed root with fome- Toes, times grow very deep, and if the upper Skin be cut away shew a little hole in the Middle. In substance and Matter they appear to be the fame with Warts, only Corns are more hard and compact, which proceeds from being continually crush'd by Shoe in Walking; which otherwise without all doubt would have been nothing else than Warts. Now this hard Substance we call Corns, pressing upon the tender Nerves and Vessels which lie under the Skin is the cause of that violent pain which so many persons endure, that are tormented with

them.

If any ill Accident happen in Cutting Corns, you must endeavour to To prevent ill prevent them from going further, and to bring the Stagnated Liquors Accidents. to their regular Circulation; if you find the Accidents and Inflammations are yet in a tolerable condition, apply the following Balfam thick upon Lint to the greived part.

The Carre.

Be Liniment. de Lythargyr. Cum Ol. Amygdal. fact. 3iij. Lap. Tut. ppt. 31s. Balsam. Peruvian. 3ils. Opii puriss. Myrrh. ana Dij. m. f. balfam. cum f. q. Ol. Hypericon.

This being done, apply with double Linen Rags, the following Water very warm, over the Lint and Ballam, and the whole

Be Bol. alb. Ceruss. Tutiæ ppt. ana 3jis. Sacchar. Saturn 3v. Campbor. Myrrb. ana 3ij. Sal. Armon. Alum. usti ana 3j. Oliban. 3ijs. Myrrh. & Camphor. in pauc. Spirit. vini solut. coque in Lixiv. è calc. viv. 3xij. Aga. Plantag. flor. Sambuc. anu. svj. & Cherefol. Zv. por quartam partem beræ & per linteum Cola.

lf the ill Accidents have not prevailed too far, you may be well affured, that thefe two Medicnes will perfectly reduce them into good order again; but if they are grown contumacious and dangerous, you must have recourse to stronger Medicines, and apply the following Balfam inflead of the former. M ban and many a to alial and tur i ret

are fo extream hard and thick, the fet in warm Water an hour toge-W ni B. Balfam. Diafulphur. Rulandi Bij. Peruvian. Bj. Copaiba Wi. vod mil Effent. Myrrbæ Bjls. Emplastri. Oppodeldoch. Bilj. Misce yords aus seum J. Iq. Oleilit Sarcocoll ad Balfamum: Worls lo 100 01 fwell worle, grow as hard as a Stone, and cannot be, let to rights a-

This Noble Balfam must be applyed warm to the grieved part, and over that the following Fomentation over the whole parr, as warm as the Patient can fuffer it. 1 none Work ni olidwaga.

Stagnized and lettiled in the parts and cauted the Industrion and Swell-To 20 R Fol. Thee, Scordii, Cherefol. Savin. Quercin. and. Miss. rad. bluow amo Aristol. long. 3jis. Pulv. flor. Sambuci, Origan. ana 3vj. Tutiæ pot. sit mus b Cerufs. bol. alb. ana 3j. Alum. ufti, Vitriol. alb. ana 3j. Myrprime irbæ Oliban, ana 3iij. Lixiv. e Calce viva Wils. Aq. flor. Sambuc, Hyoscyam, Cherefol, fol. Salicis and 3vj. coquantur slody de comia Simul. per dimid. horam, & Colatura Servetur ad ulum. Mix it now and then with a little Spirit of Wine our the Mails I proceed to Come on the Ebarrodquad, which are

The Gure.

citing upon the tender

Corns on the

fmall Callous bumps feizing the joint; have a pointed root with fome. In the next place I will accommodate you with some choice Medicines to take away Corns, without too frequent Cutting, or the use of dangerous tharp and strong Spirits, which often produce very ill confequences. I will begin with the following Plaister, which I have used many years with good success. Now 1640b Hs 100011W of What Now this hard Subfiance we call (

-oiv B. Emplastr. de Ranii cum duplici Mercurio 3ij. Ceræ rubr. 3ijs. daiw ben capit. Allij, cum pauc. Acet. vini in mortar. cont. No. iij. pulv. folior. Heder. terrestr. 31s. Misce. fiat cum f. q. Ol. We wary of or moves Heder terrestr. ad Emplastrum. 1981 prevent them from going furth

e Stagnated Liquors - When the thick uppermost Skin of the Corn is cut off, chase it well with the following Balfam, and then apply the above-mentioned Plaister, over it as large as is necessary. box and of and nogu doing

Heder terrestr. ad Balsam. f. gr. xv. cum s. q. Ol.

Dr. Blanckard fays that Sope applyed every Night to the Corn, after the hard Skin has been cut off, is an Infallible Remedy. The like L. Juncken says Emplastr de Ranis cum dupl. Mercurio. And Dr. Dolæus recommends the use Oil of Linseed only applyed with Lint to the Corns. Here follows a Plaister and a Balsam for which purpose there can be nothing better. Campber, Phyrrip, and

B. Cerat. de Galban Ceræ. virid. ana 3ij. Sal. Armoniac. 3ijs. . roll Picis Bis. Mercur. dulc. Bij. Succ. Tithymali. q. f. m. f. -od moting Empley Lege artisto out O . We Min ra & per linteum Cola,

11. Sal. Armon, Alum. ulti and 31.

The Ballam is compounded as followeth, and must be applyed as the former, and the Plaister renewed every day. and nov zun't proper Applications or otherwife, to luffer an Inflammation to run

nodw Be Ol. Heder. terestr. Zinj. Succ. Allij. Ziss. Zibeth. Mosch.
be by and gr. zvj. pulv. Subtilis. Cantharid. Zis. Coquantur ad
-neb und Balfamum igne lento. (1949 of on one und discount and one of one of one of the company of the one of

Perhaps you may think that Zibeth and Musk are only added for the fmell fake; but that's a mistake, for they have great virtue in cu-

ring Corns as you will find by experience, if you use them. and amount

In February 1679. Siegmund Konig a Brewer in Halberstadt 58. Historical Ob. years of age was accustomed to have his Nails and the hard Skin on servation. his Foot cut by a Chirurgeon in this Town, who was well rewarded for his pains; but this time, cutting the hard Skin under the Ball of the great Toe, the Knife went a little too near the Quick and made it bleed, which neither Patient nor Chirurgeon regarded at that time; but the Patient from feeling pain afterward, a little Lint was applyed to it, and and over that a common Plaister, was continued to the third day, and then the Patient finding more pain in the great Toe, accompanied with a Swelling and Inflammation, the Chirurgeon applyed Felix Wurtzen's Brown Ointment to it. The fifth day, the Symtoms incrreasing, and the Patient looking on the hurt himself, found it quite Black the bigness of a shilling, at which he was amazed, and shewing it to the Chirurgeon, he faid it was only coloured by the Brown Ointment. On the eighth day, the Patient to his great astonishment, faw his great Toe and part of the Nail was grown Black; upon which he sent for Dr. Hasenben, who searching it, found it to be a Mortification and not coloured Brown Unguent; which the Chirurgeon might have prevented, if he had confidered the Leanness of the Leg and the feveral Ulcers that had been in it some years before; for then he would have taken more care. This Mortification put them into a great consternation, and instead of the former Applications, they now began to employ an Emollient Cataplasm, which made the matter worse, by relaxing the part, which assisted the Mortification. length Dr. Mauritius was also sent for, who advised the great Toe to be cut off, which was done and fignified nothing, for the Diftemper was gone too far, and the Mortification run from one Toe to another. The Patient feeing no help any way, fent for me also; and I immediately employed the following Powder strewing it upon the pieces of Toes, and the perithing Fleth.

R Rad. Aristoloch. long. 3ss. Ocul. Cancr. 3vj. Antimon. Diaphoretic. 3iij. Præcipit. alb. 9jiss. Myrrh. 3iij. Mastich. Oliban, ana 311s. aloes 3j. Sang. Dracon, Lap. Ostiocoll. ppt. ana 36s. M. f. Pulvis. Subtilissimus.

Instead of their Cataplasm, I applyed every two hours the above prescribed Fomentation, and continuing this course, the Mortification went no farther, tho it was eight days before it could be brought to a Separation. I applyed the Balfam above mentioned for the Cure of Accidents happening to the Nails; upon which it appeared much better; but the Patient being never free from the violent

affaults of a Fever, his Strength decayed and he dyed about a Fortnight after. Thus you fee how dangerous it is, either by Negligence, improper Applications or otherwise, to suffer an Inflammation to run into a Mortification, because it very seldom submits to a Cure, when it has made too far a progress in the affected part; which should admonish every Chirurgeon, to be very careful in preventing that danger betimes, lest at once he looses his Patient, his Employment and Reputation.

The Conclusion. Now to conclude my Chirurgia Curiofa, I think my felf obliged to acquaint the Reader, that I am not so vain as to think the Publication hereof will please every one, that sets up for a Judge of other Mens Labours; tho' I am not without to beleive (prejudice apart) that the most curious and nicest Understanding, upon a serious perusal will find many things in this Treatise, utterly unknown to other Authors that will recompence his Cost, gratify his Curiosity and redound to his future Honour and Advantage; for this I can aver with the greatest Reality and Integrity, that I have inferted nothing in all this great Variety of Medicines, but what I have had repeated experience of in my own Practice; having no other design in this Undertaking, but the Glory of God, the Advancement of Art, and the Benefit of Mankind.

> Felix Murragu's Brown Quatment to it. The fills day, the Symtoms increasing on the Patient looking on the hurt himfelf, lound it quite

it to the Chirurgeon, he faid it was only coloured by the brown

few his great I be and part of the wall was grown Block; upon which be tent tor 12t. Majerden, who tenteding it, found it to be a Mortifica-

world have tiden more care. This Mortification put them into a great confermation, and infless of the former Applications, they now

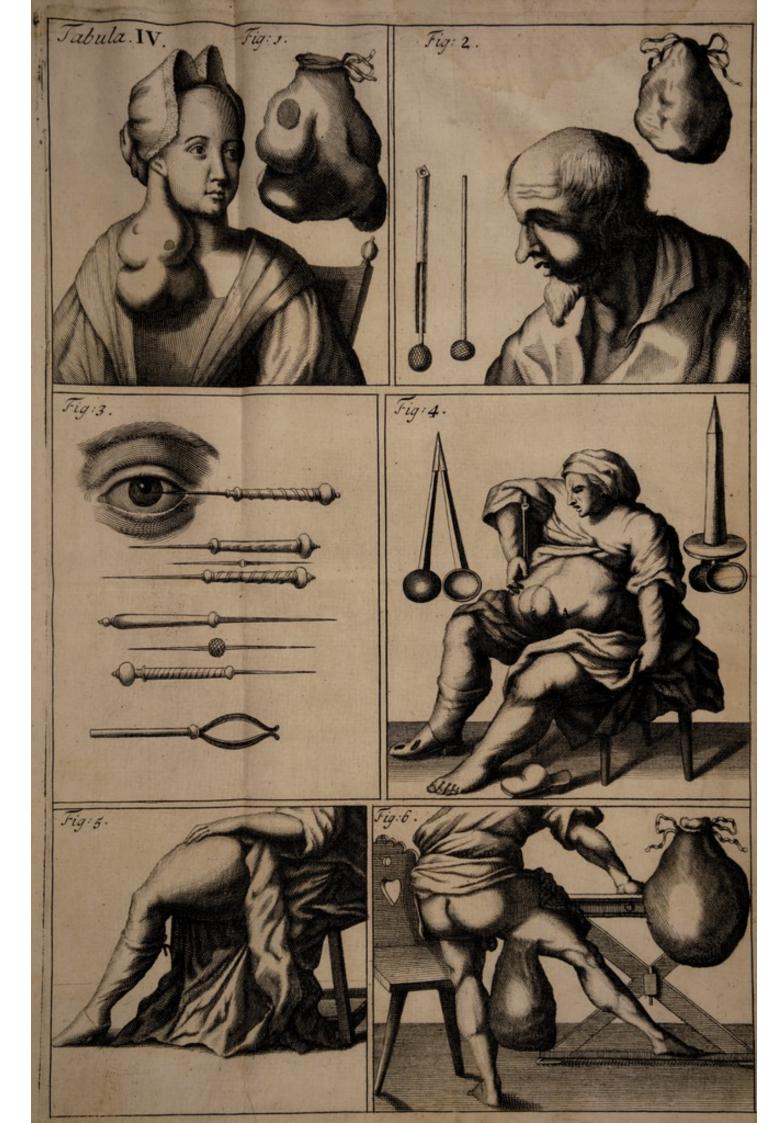
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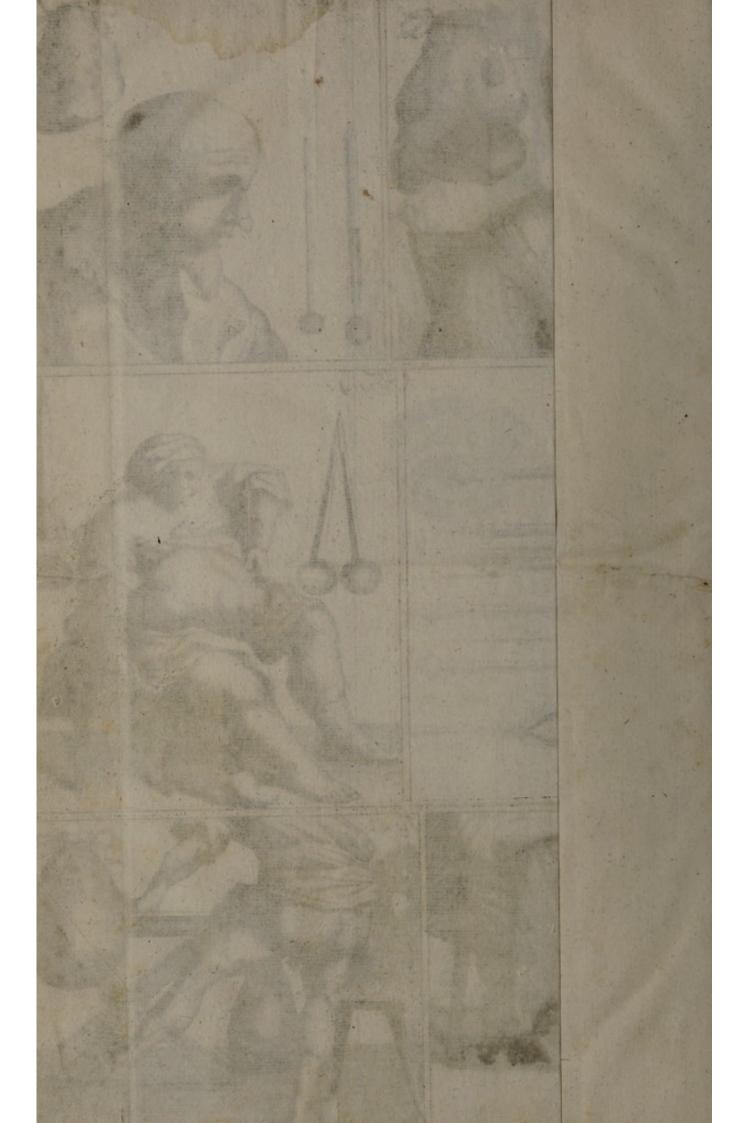
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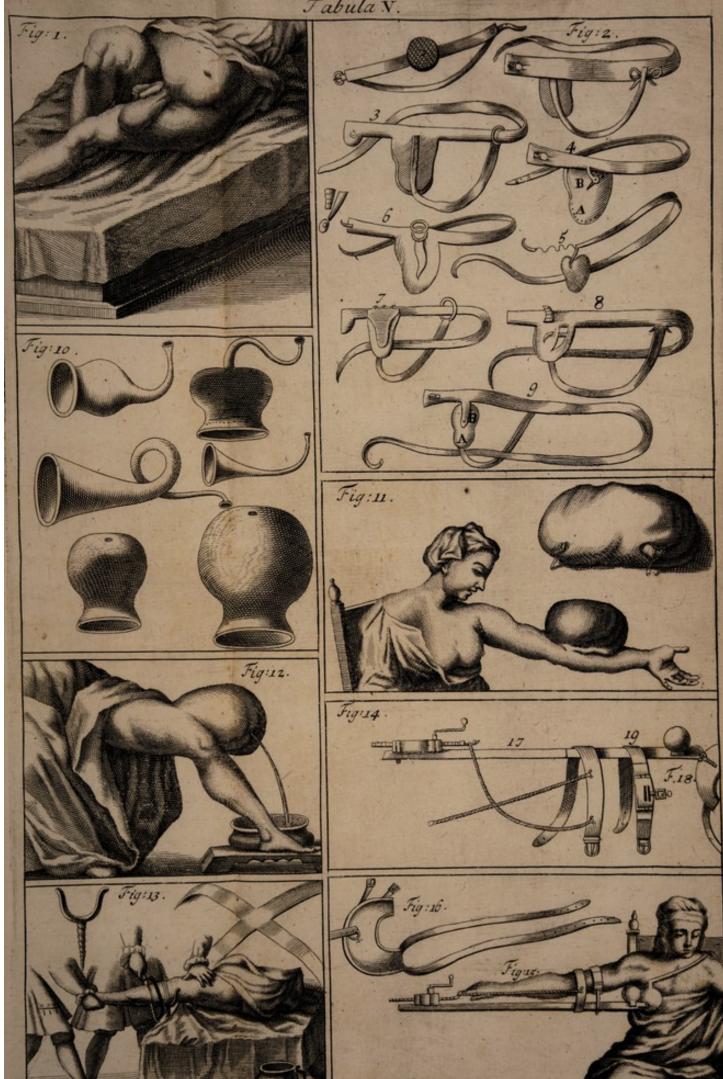
worle, by relaxing the part, which affilted the Mortification. At length Dr. Marrich was allo fent for, who adviced the great Toe to be

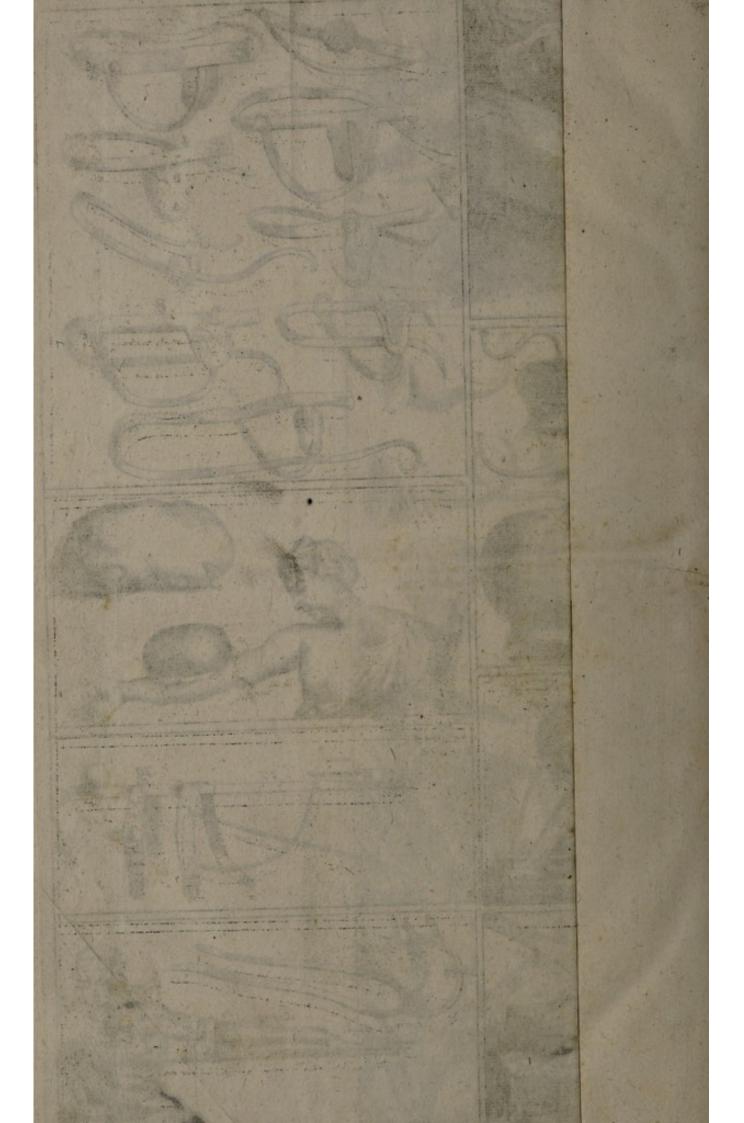
infeed of their Cataplain, I applyed every two hours the above tion went no tarther, the it was eight days before it could be brought to a Separation. I applyed the Ballam shove mentioned for the Cure of Accidents happening to the Nails ; upon which it appenyed much become that the Pagient being never need from the violent





Tabula V.





Natura Morborum Medicatrix:

OR,

Nature Cures Diseases.

WHEREIN

The Energy of Nature is Demonstrated;
Her Operations Explain'd,

AND HER

Various Steps are render'd Intelligible:

In Order to

The Excussion of Noxious Humours, and the Preservation of Human Life.

By Conrade Joachim Sprengell, M.P. Physiodidascalus.



LONDON:

Printed for Dan. Browne, and Rich. Smith, without Temple-bar, 1705.

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by his Ungovernable Passions, and how many Informities does be carry

about him, both in Body, and Mind ; and yet he is continually seeking for more; not AlyH & Ting, Origing, Standing, Walking, Sleeping, Watching, Thinking and Imagining; but his Eves invite

Right Rung his Lar Larken After Milelist his Research Referred to Research Research

Hence the Mind languishes in Commanding, the Body is be-A N is so generally addicted to delight in Novelties, Projects and Disputes, that he puts himself into a contimual Uneafiness and Discontent. His Head blunders upon a thousand Notions, Conceits and Fancies, which some erroneoufly embracing, they are too often published for Truths. This has been, and still is a great Cause of our Ignorance, and of the many different and ridiculous Opinions and Controversies that reign among us; while Truth is incarcerated under innumerable Errors and Perplexities; and is like to continue fo, while we purfue our own vagrant Thoughts and Suggestions, without throughly examining them by a Confirm'd and Unerrable Experience; which, if we could once persuade our selves to, considering how highly necessary it is in the Healing Faculty; we frould not be fo egregioufly Mif-led and Imposed upon, for want of a true Theory, and a certain Method in Curing Difeafes, fince there is no Art or Profession, where the first Faults are so irretrievable as in this. How many, that might have been fer piceable to their Families, are suddenly fratch'd out of the World, or made fo defective, as to spend their days in Mifery. occasioned by the Ignorance and Misunderstanding in Practice. The daily unlucky Examples also sufficiently demonstrate the Rash and inconsiderate Practice, made upon the Artificial Human Structure, by Ignorant and Difingenious Pretenders. If Men would confider how inclinable they are to Corruption; of what tender Filiments they are composed, and how they are perpetually surrounded with innumerable Difeases which threaten their Diffolution, they would certainly admire what mighty Power it is that preferves them; and take the more care of themselves in venturing their Lives, to undergo so mamy ill grounded Trials as are daily practis'd. ma bool some

No sooner is a Man deliver'd from his close Confinement, to breath the open Air, but hundreds of Internal Diseases conspire against him. He scarce receives an Entrance into Life, but is amidst a thousand Preparations for Diseases and Death. Homo morbum gerit, morbum quærit! How many Diseases are contracted

by his Ungovernable Passions, and how many Infirmities does he carry about him, both in Body and Mind; and yet he is continually seeking for more; not only in Eating, Drinking, Standing, Walking, Sleeping, Watching, Thinking and Imagining; but his Eyes invite what is his Ruine; his Ears hearken after Mischief; his Tongue affects what is pernicious; his Nose Helights in bings that are noxious, and his Desires are always harrying him to Destruction.

Hence the Mind languishes in Commanding, the Body is benomb'd and unactive in Executing, and the Supporters debilitated
in sustaining. Tota Civitas tota Calamitas. Here the Bones,
which are the Foundation of the Edifice, grow feeble; the Members
or Streets are everted, and the Fleshy Panicle or Walls are assaulted. Therewhe Head, with its Watchmen the Eyes, and its Scouts
the Ears, is insulted. On this side the Enemy rushes into the Gates,
the Mouth and Nose: on the other side he falls upon the Inhabitants, the Viscera; and so the Royal Palace is invaded, and its
Sacred and Orderly Regiment is destroyed.

What Part or Place in this Microcolm, but has its proper Infirmities? O Hominem Microcolmum Miseriæ! where the Seat of Life, and the Iplendid Palace of the Soul itself is not exempted from Destruction. How easily is the Aolick Filtula stope up, the small Gate of its Entry occluded, the Common Kitchin silled with Nastiness. Virile decus six malorum Specus! The Ubera's of the tender Female Breasts, are indurated and ruined by permicious Tubera's; the Intrails become the Residence of Worms, and the Guts the Gutters of Corruption. Optima sercula pessional Stercora. This is our miserable Condition, and yet how secure and unconcerned we live.

they should so obstinately precipitate themselves into Diseases, by de-bauched and irregular Lives, when they are already menaced with such a multiplicity of Diseases, as constantly attending to their Destraction, it not miraculously preserved by Heaven, and the vigitant Operations of Nature; of which I have sufficiently discoursed in the following Treatise, by shewing First, That by Nature is to be understood an Immanant Principle, or the Soul vitally acting for the Conservation of our Corporeal Machines, and how those Actions are performed? Secondly, That this Internal Agent, Nature, is still endeavouring to free the Body from what is prejudicial to it; and that she performs these Actions by Secretion, Excretion, and Nutrition. That by this means, many Diseases are cured without the

the wfe of Medicines, and their Causes Sometimes expelled, before they can produce their Effects. Thirdly, That Nature externinitter Difeafes by ber various Operations, both in Acute and Chromical Difeafes 30 and that Arthritick, Rhoumatick aid Gouty Pains, are nothing but the Hemorrhagic Endeavours of Nature to expel the percant Humour, and that for want of fuch Guftomary Evacuations, those Diseases are procreated in Fourtlely, That the Body is preferred by a Mechanico-Phylical Operation, or contin ment Local Motion. (How Secretion, Excretion and Nutrition are performed From whence the Recrements in the Body proreed. The Regular and Irregular Motions of Nature wire confit der'd and that the Motion of Humours, and not no phantaftick Wariety of a particular Acrimony, is the Caufe of most dangerous Difeafes, 800. Fifthly That great Benefit will arife from a part tiender Application of the forementioned Doctring That I Theory difagreeable to Practice, wir a Scandal to the Profession of Physick and Chiramer Mat kind of Medicines are to be a fed or avoided in many Cases; with Reflection upon In mpleticks, inand their blind way of Administring Physick.

The Motives that induced me to discourse upon this Subject, was, that I thought it would necessarily bring us back to the Ancient way of Observation, as the right way of Practice. In which the Learned Sydenham has shew'd us so Noble an Example, and to which the Ingenious Bagglivius has so earnestly exhorted us; for then we should be able to discover the true Pathology of Diseases; and not take those for Primary Symptoms of Diseases, which are but the usual Endeavours, and Excretory Motions of Nature, well known to the Ancient Practitioners, under the Appellation Facultas Expultrix, and Molimina Critica. Hereby we might also attain to a True, Expeditious and certain Therapia, which is so passion-

ately wished for. & 1 VI 1 3

The Method I have proposed, and would gladly persuade all PraEtitioners to follow, being nothing but what has been used some Ages
before us, I am very confident would render Men more fit for their
Business in one Year, than otherwise they can attain to in many; for this
Discourse on Nature has no Design to expose or render the Noble Art
of Healing useless, as some perhaps may conjecture from the Title of the
Treatise. No; but rather to make it appear in its proper Lustre,
to convince all Men of its Certainty, and the incomparable Benefit
that redounds to Mankind, by the use of it. For this Reason, I beg
all Ingenious Practitioners, to improve this Notion with all imaginaPPP

ble Industry, and to correct what they find contrary to their own Ob-

fervations, that it may the fooner arrive at Perfection,

I have annexed this Discourse, as a Supplement to the Incomparable Chirurgia Curiosa, that Chirurgeons, as well as Phyficians, might read and comprehend the Operations of Nature, because it will give them a great Light and Knowledge of External Maladies, how they may affift Nature in all her Motions, and no way cross her Purposes, especially in Inflammations; which the always designs for the better and more speedy Extrepation of the Morbifick Matter. Excellent Hints are allo given in this Tract, how Nature may be obliged to a more vigorous Action, in Inpeterate Turnours, Ulcers, wich when the Jeems to flacken her accustomed Vigour: and that Structures inconveniently raised, might be demolifhed by her proper Motions And fince a Chirurgeon, in times of Wax, is sometimes obliged to act the part of a Physician, as well as his own; he will herein find repeated Cautions and Admonitions, how to demean bimself under those Circumstances, to his Patients Benefit, and his own Reputation. A dier : 23 10 4 10 min

way of Administring Physics The Motives that induced me to discentle upon this Subject, was, that I thought it would acceptacily bring as back to the Ancient very of Observation, as the right may of Practice. In which the Learned Sydenham has shewd in so Noble an Example, and to united the Ingenious Bagglivius has forearneftly exhorted us ; for then we thinked be able to different the true Ladiology of Difenses and an experisole for Primary Symptoms of Discuses, which are but the hard Endeavours, and Exerctory Motions of Nature, well known to the Ancient Practitioners, under the Appellation Facultas Expense and Melimina Critica. Hereby me might also actain . to a Time, temperations and corrain Therapia, which is to passion-

FINIS. -ATT in Method I have proposed, and would gladly persuade all Pra-EH one's to follow, being nothing but what, has been used some Ages Thefore was I am very confident would render Men more fit for their Bufine simone Year chan otherwise they can attain to in many; for this Directle on Matture has no Defign to expose or render the Noble Art

of englants tome pertians may conjectione from the Trace of Note but rather to make it appear in its proper Laftre, to convert all Men of its Certainty, and the incomparable Benefit That I lowers to Marsand, by the ufe of it. For this Reafon, I beg all the mone Practiconers, to improve this Notion with all imaginabie 999

and the Spirits were only lastruments to convey and induce Sense and Month Medicatrix Morborum Medicatrix one to Serie, fuch representation one a proper and peculiar Knowledge and Power to set, which were perpetually employed in R.O. cling the abiliteded Notions

above mentioned. Some of late years, retain it as the Ancients left

NATURE Cures Diseases. but the Opinion of the Ancients. The first of these acknowledge a bind of Spirit or Arthur, which differs only in Name from the Anti-

ma Vegetativa of the Ancients, for the Definition is the lame, wir. a live Agent, throughly infirm the Knowledge of acting, without any Dependence upon the Aniversary A. H. Aniversary and of its own ac-

That by the word Nature, we are to understand an Intrinsick Agent, by which the Vital Motions, necessary to the Preservation of our Sentiments, we may collect beminof are ferformed collect beminoted to the from the modern to the from the from

HAT there is something in Human Bodies, by which all the Vital Functions are Ordered and Directed, and by which Secretion, Excretion, Nutrition, Respiration and Reparati-on are duly managed, in respect of Proportion, Time, Manner, Design and End; no Person, endued but with a tolerable Share of Reason can deny; especially if he considers how all these Actions essectually associate, and all manner of ways combine for the Conservation Relief and Restoration of the Body, when by any Accident it has been Impaired.

Hence the Ancients, called that Agent of all these Vital Functions, Nature wby se Nature; not intending hereby to denote any particular Agent, in Ancients. contradiftination to the Soul and Spirits; but under this Notion, comprehend the Soul itself especially, in as much as the contributes to the Vital Operations; for as Nature is nothing but the Soul acting Vitally; Nature what.

Many in former Ages and also in this, have taken abundance of pains to discover what this Internal Agent is. The Ancients were positively of Opinion it was the Soul itself, to which they appropriated several opinion; Faculties, which the Soul put in Action, as often as Necessity required : the chief of these Faculties were the Natural, Vital, Animal, and Rational, and the Pullifick and Respiratory Faculties were only Subservient to them.

Others, with which Galen agrees, have advanced a threefold Soul, The Galenick all differing in kind and Operation, and that are wholly unconcerned Opinion. in any Office but its own, with difregard of the other; and these they called Vegetative, Animal, or Sensitive and Rational Souls. Others again have introduced a Calidum invatum, contradiffinct to the Soul, of which fee Hoffman de Calido innato.

Those that were of opinion there was but one Soul, assign'd Spirits Another Opinifor its Organs, on this manner; the Intention what to act, the Manner nien, how, the Time when, and how long to act, the Determination of the Corporeal Organ wherewith to act, and the End to which that Proportion of an Action was to be directed; all absolutely existed in the Soul

and the Spirits were only Instruments to convey and induce Sense

Another Opini-

Again, fuch Persons as imagine there are many Souls, attribute to every one a proper and peculiar Knowledge and Power to act, which were perpetually employed in reconciling the abstracted Notions above-mentioned. Some of late years, retain it as the Ancients left it, and only change its Name. Others have flarred femething they apprehend to be new; but if throughly examined, it is nothing elie but the Opinion of the Ancients. The first of these acknowledge a kind of Spirit or Archæus, which differs only in Name from the Anima Vegetativa of the Ancients, for the Definition is the same, viz. a Free Agent, throughly instructed in the Knowledge of acting, without any Dependance upon the Anima Rationalis, but wifely, and of its own accord, performs the Vital or Vegetative Actions.

The Opinions of late Authors.

The latter are not agreed among themselves what to advance, but hover in Doubts and Uncertainties; however if we enquire into their Sentimeuts, we may collect, that there is a stupendious artificial Structure, fo neatly compacted together, that from the most minute Impulses, the whole subsults in a perpetual Circle. Secondly, notwithstanding all this, they say the Machine is moved by a Spirit or fome kind of very fubril Matter, which with the Æther, as they call it, or finest part of the Air, ferves for a continual and reciprocal Motion; which being variously impuls'd by the Æther, communicates its Effects also variously to the Body. It would a be vain and fruitless Attempt to apply this Hypothesis to the daily Phanomena's we encounter; and therefore these that are a little more circumspect, suppose that in these Spirits is an Innate Endeavour or determinated Tendency of Motion, which they exercise agreeably to their Original Impression. With this Opinion they flatter themselves to have untyed the Gordion Knot, and removed all the Difficulties which might arife, in Refolving, that those Spirits acted from a Principle of Knowledge, with advice, under an Intention and determined Proportion of acting.

Matter what. The Ablurdity

The Ansients Opinion,

The Galenick

Nature why fo

Ancrence.

This whole Supposition will appear very strange, if we either object of the late opi- against them, the Effects of their false Reasoning; and, on the other fide, if we confider the remarkable Agreeableness of the Vital Actions with the Rational, and how Perfectly they agree in their abstractive Circumstances, and proneness to operate with Exactitude in their Beginning, Uniformity and Constancy in continuing, and in their Equality and just Proportion in their Administration of proper Mediums, their Supposition will yet appear more absurd; but I shall not run into any Controversy about these matters in this brief Discourse, but leave it to those that are more inclined to trouble their Brains about

O It's sufficient that I observe, that the Followers of this Opinion, agreeably to their first imbibed Principles, affert, That all such Actions which are exercised by the Spirits, are wholly determined from their first Impulses to the Conservation of the Body, and continually serve that great End, unless they are interrupted or disabled, by the Interpolition of some unhappy Accident, which obstructs and confounds the Regularity of their Operations.

Nor will I mention here the Impossibility of proving this Opinion a priori, or urge against the Authors of it the Arguments pre-alleged;

but propose and support that Opinion in which we all agree, viz. that The uniting of the Actions vulgarly called Vital, do incline and conspire the Conservation ons.

of the Corporeal Machine.

All those Actions are resolved into one single general Act, viz. Concerning to Motion; for whether they act upon Solids or Fluids, they are particularly perfected and accomplished by Motion, whether they refer to the Tenuity of Fluids: the Nutrition and Reparation of the folid Parts: the continual Secretion of Heterogeneous Substances, as well out of the Fluid as solid Parts, or a full and final Excretion of this separated Heterogeneity from the whole Body, by the several Emunctories. All this I say is performed by a Motion of the folid Parts, which is twofold. I. From the internal to the external Parts, and that equally and univerfally, by the Pulfation of the Heart, and in some measure by the Respiratory Motion. 2. From the external to the internal Parts every where, but partially and unequally by a Tonic-Motion of the Parts, which in some places are vrey often relaxed, that more Humours may penetrate them by the Pullation of the Appulfors; and are also strained, that the quantity which is usually forced into them, may be expelled from thence, and driven back again into the Veffels.

Now while these Motions are regularly performed, the Body flourishes, continues in Health and Vigour, and will remain in the same State, if the Agent is not oppressed by meral Perturbations, nor the Organs or Humours injured; and if it should happen that the Humours and Parts should be prejudiced, and yet at the same time the Energy and constant Vigour of the internal Agent should not be enervated, but observe rather by Art or otherwise exsusciated and stimulated; then we may daily observe with Admiration, how this Agent will rouse it felf, and with a redoubled Force encounter the offending Object; till by its feparatory and exerctory Motion, it has accomplished the Excussion of all

All that confult their own Reasons, and are not byas'd by Fancy and Affectation of Novelty, will foon find themselves obliged to acknowledge the spontaneous and intrinsick Power of this Agent in conquering Difeases and curing Corporeal Hurts, as may be easily observed in the Reparation or Restoration of any of the folid Parts, in repurging and preferving the Fluids, which daily falls under the remarks of Clinick Practitioners, and truly it were to be wished, that they would continue, with the greatest Sagacity and Industry, to confider it throughly, as the best and surest Methodus Medendi, in curing the many and almost innumerable Diseases and Infirmities of our mortal Bodies.

Of this Spontaneous Excussion and Restitution, and how many dangerous Accidents are Cured, meerly by the Intrinsick Motion, without the affistance of any Extrinsick Art or Operation, I shall treat

more at large in the following Chapter.

Now this Intrinsick Agent, by which all these Vital Motions, so abfolutely necessary and beneficial to the Preservation and Restoration of Nature n bet human Bodies, are directed and managed, is that which I call Natura Animalium or Nature. Others may call it Archaus, Calidum Innatum, Anima Animalis, Anima Vegetabilis, Spiritus Vitalis & Animalis, Principiam Vitale, Juxi, or what else they please; the Notion only differs in Names and conceited Terms, without any Foundation, and

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yet have been the unhappy causes of divers Controversies, to no purpole, but wasting Time, Mony and Paper, only to serve a Fantassical Humour, or to erect a fine Scheme that may be turned and applied to every ones Fancy; thinking it a lessening of their Dignities, to adhere to that admirable Axiom of the great Hypocrates in Income μαλιτά καιτά φύσιο έξι, that Art should follow the directions of Nature, and not cross ber Endeavours by a rash adhibition of Medicines; but diligently observe all her Motions and Efforts; gradually and in due time, give her Affistance in her own way and Method of Working a Cure. But instead hereof, too many run on blindly, and grope in the dark for what they are never like to find, without following the wife and fafe Indigitations of Nature. There are few but boast of their own Arcana's and infallible Specificks, which when they come to be experimented, have little or nothing in them, and yet there much be adhibited; let Nature work which way the will, and this without any confideration of Time, Place, Persons, or any other circumstances whatfoever, or the hopeful Symptoms that Nature produces in opposition to the Practitioners Fancies. Others again, make needless remarks and diffinctions, and would lay the whole Foundation of Physick upon every fantastical and finely worded Notion, and in the mean time, drop the true Theory of Diseases, and consequently the knowledge of proper Medicines. Hence it is, that those who have no great inlight into this Affair, perceiving the different Opinions of Such as despise Physicians in one particular Disease, are tempted to think, that this the noble Art noble Science of Phylick is all a Jest; but these are to be pity'd ; for had of Physick.) they read and considered Hypocrates's Aphanisms and Prantitions, and diligently observed them in their Practice; they could never talk so very awkardly. But instead of exposing those that effectually ridicular themselves, let us look a little further into the effectual Operations and Efforts of Nature, that we may follow her steps with greater Ease and Delight, and reap the more Benefit from her Precepts and Examples, to the Glory of God, the Health of our Patients, and our own Credit and Satisfaction, Mointinii bas auconamon of all agbelwonde conquering Difeates and curing Corporeal Hurts, as may be easily ob-

of the foud Parts, in re-

purging and preferving the Fluids, which daily falls under the remarks of Clinick Practition Hs, : Id AuH Dwere to be wifned, that

they would continue, with the greatest Sagacity and Industry, to con-Demonstrates to us, That this Internal Agent or Nature, tends directly to free the Body from all Difeafes, and other ill Accidents that may happen to it, as well with regard to the Caufes as Effeets; and that Nature commonly performs thefe Actions by Seeretion, Execution and Nutrition, without any confiderable Affifeance from the Concourse of Medicinal Arts or Applications-

f be oundation of the Ancient Prastitioners.

His is sufficiently apparent, from the repeated Experiences of Ancient Practical Physicians, who always laid the Foundation of their Hopes of Success in their Practice, on the Efficacy of Nature in Conquering Diseases, and curing Lesions; which made Hypocrates often fay, 6. Epidem. 5. Naturas effe Morborum Medicatrices, Nature is

the

the Curer of Diseases. Galen, in his Comment upon the same Text, alto affirms, Omnia facere salutis bominum causa. Again l. 1. de Natur. Facult. he lays, Naturam suis viribus usam, que Noxia sint expellere, que Utilia usui servare; to which all Ingenious Artists willingly subscribe, among whom Valleriala Olf. p. 36. and lib, 2. 136. deferves to be mentioned, who has done very Learnedly on this Subject. Paraus Lib. 8. Cap. 14. also speaks to the same purpose; It's most worthy of Observa-Cures Difeafes that were thought Incurable.

- But 'tis my bufinels here to demonstrate, How Nature frees the Body from Hurts and Difeases, when its Health has been assaulted by such Accidents. The Act of Restitution I think is so Evident, that it The Act of rewould be superfluous to detain the Reader longer upon that Subject; strution. for who can afcribe the Reunion and Confolidation of Wounds, or the Reftoration of Eroded parts, without any confiderable alteration of the proper Figure, to any thing else than this Intrinsick Energy; where an Adhesion of Nutriment cannot be supposed to happen by meer chance, but that it's the Act of Nature to form and preserve both the

outward and inward Texture of the part in its proper figure.

OlAs supposing a large Muscle was cut afunder, if the same Fibres An Example. which were United before, were not afterwards directly and exquifitely joined together again, with their ends to one another; it's cerrain, fuch a Muscle must unavoidably lose its Motion, or if it has any it must necessarily be very indirect and consused for ever after, which our late Ingenious Anatomists have sufficiently and apparently demonfrated. Now it is not (we know) in the Power of the best Artist in the World, to compleat such a Restitution, and actually join such small and tender Fibres exactly together again, and as they ought to be, without making feme or other unhappy Confusion among them: and yet we fee this Wonder is every day eafily accomplished in great Perfection. by our Intrinfick Agent, Indulgent and Skilful Nature, if not interupted by a Rude Invation of fuch Extrinficals, as diffolye and Ruin the Animal Mixture

That Nature is always folicitous for the Health of the Body, is de- Nature is almonstrable from things that are taken Inwardly, as Meat, Drink or ways solicitous Medicine, Which don't prefently or entirely diffurb the Animal Mixture, of the Body. buccannot be long retained, without being Noxious to the Body : fuch are most kind of Sall's, especially Acrimonious, and some Sulphurend , Salinous and Aromatick particles; Spice, Wine and Spiritous Liquors In extruding These and the like if not timely expunged, and separated from the fuch things a Humors and thrown out of the whole Body, will not only diforder and are nexious to confound the Confisency of the Humors, but also the Connexion of the the Body. Solid pares. Now, to prevent this Dilorder, the Secretory and Excretary Motions are always at hand to Separate the Noxious Portions and Particles, from the Beneficial Mass, and when they are collected, to Eject them through the Emunctories.

11 know there are fome, who imagine thefe Secretions, as well as Excre- The falle of: time, are not performed by a Directing and Moderating Principle; but nion of some. that the wholly depend upon a meer Conformation of the Organs, where the Pores are fo ordered, that thefe Particles can slide and pals through themowithout any Concurrent Directions; but this is Difagreeable with Practice, for it is evident, First that these Secretions and Excretions

An Example.

Imag ination for the most part depend upon the concurrent Fancy and Imagination : As for Instance, A person is drinking in a great company, and is in pain to think where he shall Urine; now it's certain, that upon such a Conceit the Urine gathers together in greater plenty, and urges the person much sooner to the Act than is usual; for the' the Fancy contributes nothing to the quantity of the Urine, or the quality of the Passage; yer it contributes very much to change the Tonick Motion of those Passages, i. e. to cause a Relaxation of the parts, that a greater abundance of Urine may flow through them, and fo concurs with that trembling fluctuation. Secondly, this Aptitude of the faid Secession, differs remarkably per individua, that in the example, where one is drinking somewhat more than ordinary, especially if of Salino acrimonious Liquors there are found such remarkable varieties, that can never be reconciled with that supposed universal Mechanick Disposition of the Body, unless we would take refuge in the most troublesome and individual Variations; and suppose that there were a Variation peculiarly and Individually, in every fingle Individual of this and the like Mechanic Structures.

A further contradiction of that Opinion.

Thirdly, Experience contradicts this Opinion, under the confideration, that the same Person as above-mentioned, will be forced to Urine very often for some hours following, after he has been forced to this Att by the concurrence of his Fancy; which is commonly heard from Stout Topers by their own Observation, that if in their Compotations they once begin to rife to evacuate their Urine, they are afterwards obliged to rife very often; because the Congestion of the Urine is so swift and sudden that it compells them to the frequent repetition of the Action. But if in the first they can but something refift this Action, then the less Urine they will make afterwards and not be so often forced to the said Act. Fourthly, and above all, the Circumstances in their time, the Impetus and Constancy of Acting, &c. sufficiently overthrows the further Doubtfulness: as for instance, a Person has been eating, and perhaps very good Food; neither too much nor too little, and at no improper season; yet if there arises an Aversion or Loathing in the Person, then it is much longer retained in the Stomach than usually, or else is precipitately disgorged, upon no other reason, than because it was imagined to be unlavory. So it often happens in feveral Persons, who out of a meer fanciful Perswasion do often Purge and Vomit, after the taking some kind of Medicines, which are indued with no fuch qualities. In some also a gentle Cathartick will become a strong Emetick, especially if very Nauseous to em. Therefore the Learned Boyle de usu exper. philos. par. 2. Sec. 1. cap, 13. p. 15. reported thus of himself. Sola de Potu impuro cogitatio in me borrorem excitat, cum aliquot corporis mei partium commotione Sensi. bili conjunctiam : Speciatim Stomachum motu quodam constructivo movet, On this Subject you may also read Galen Lib. 3. de locis affect. cap. 7.

But that we may not be too prolix upn this Subject, let us confider, that either those Effects depend upon a Mechanick Necessity, or that they are administred by some Directing Principle, which is always present, and skilful in Successes and Events. Indeed both these Arguments favour our Hypothelis; namely, that those Actions are for Inherent and managed by an Intrinsick Cause, inherent and immanent in the Body, that they directly tend to the Confernation of it.

Principle.

As for the latter, there is no great occasion to concern our selves, whether the Conservation of the Body is perpetually attended by this Immanent Agent, and is to be consider'd as the Scope of all its Actions. which we are now treating of? or whether the most Benign Creator instituted it to that End from the Beginning, and so disposed and conformed the whole Machine, that for the future by a Mechanic necessity, the Successes and Events might unavoidably follow? which opinion I have no intention to dispute at present.

It remains therefore, that I should explain the Circumstances mentioned in this Chapter, namely, that the Causes of an injured or diseased Body, as well as the Hurts and Diseases themselves, are thrown off, and the Body freed by the kind Operations of Nature, but to make a full particular and demonstrative Explication of things of this Nature, neither Time nor Place will permit; but in general we may affure our selves, that there is no actual Disease or Hurt in the Body, but Nature is always provided to relift them; infomuch that fomtimes their Observe. Causes are expelled before they can produce their Estects, or fix any

where to the Detriment of the Body.

Nor is there any necessity that I should mention the Vomiting of a- Indigestibles if ny Meat up again, that will not be brought to an easy Digestion, tho' vomited up in Persons of a strong Constitution, its frequently done to their great gain, good. Benefit; when on the contrary it being retained in the Stomach, it If retained bors lays the Foundation of several Diseases, especially Cardialgia's and Ver- noxious. tigo's, accompanied with great Loathings, Queaziness of the Stomach, violent Belchings, breaking of Wind &c. Besides it surnisheth Matter for all kind of Agues and Fevers; but not to insist on these particulars, an Inflammation is the best Example to demonstrate the Truth and Energy of Nature, in rescuing the Body from the Assaults of Morbi-

If any extraordinary quantity of Blood happens to Stagnate in a Thedangershap Porous part of the Body, it soon Coagulates and runs into Putrefaction, from a stagnawhich is a Dissolution of the Animal Mixture, an irreparable Injury to ted fortion of the Body, and from the beginning is so very Horrid and Cruel, that Blood all the corporeal Actions, and sometimes the principal ones are confufed and destroyed; but to prevent the fad Efforts of this dreadful Enemy Putrefaction, the Vital Acts immediately concur to fall on with a The vital affa stronger and more powerful Motion, in forcing a greater quantity of ions how beneof Blood to the affaulted Part, the Tenfion of the Fibres grow more ri-ficial. gid there, and hence the transient Blood grows more fierce and fervent, tenuates , mollifies and discusses the Stagnated Matter; but if the Stagnated Matter is fo ftrong, that the Diffcuffive Motion cannot overpower it, then the most Subtile and Acrimonious Parts, which from time to time are produced under this Corruption, are carried off and evaporated; that if they should gather they would certainly run into a kind of putrid Fermentation, and by that means diffuse the Putrefadien through the whole Body ; but when the most Acrimonious, Sulphurous and fubtile Parts are gradually evaporated, that which remains is thicker and unfit for Motion, like a Caseous Substance, as being a Grass portion of the Chyle, which generates a Pus or Matter unapt for a subtile and active Putrefaction, but very prone to a slow Saline and Mucid Corruption, which can produce no fudden Injury. Therefore as often as an Inflammation is produced, the Discussive faculty Rrr

ftrengthens

firengthens it felf to drive out what is hurtful, which commonly is performed by rarifying the Stagnated Blood again, before it turns to Corruption, and in abducating its most subtile and active Parts to prevent the harm that might be done by their injurious residence.

An Inflammation very neces-Jary.

But that this Action truly deligns the Confervation of the Body, and that an Inflammation is very necessary, where the Incarcerated Blood is finking into Corruption, may hence be plainly understood; for if an Inflammation did not timely happen, then an absolute Putrefaction, Mortification and Death would unavoidably follow, especially in that Part which is corrupted by the Stagnated Matter. Now this being wholly contrary to Life, Conservation, and the Mixture and Structure of our Bodies, we may justly conclude, that what opposes such a Mortification, must be instituted for the salety and Convalescence of the Body. But above all, this appears with greater Evidence in Fevers. than in any other Sickness; in which, if the actual Effect of its Cause thould be expected, then would the Patient be surprised with a Sphacelus or Mortification of the Entrails, in Malignant Fevers ; Imposthumes, in Acute; and pertinacious Schirrous Obstructions, in Intermittent Fevers. But to prevent these dangerous Consequences, an Intention of the ordinary Motion of the Blood is immediately advanced, that the more active such a corrupted Matter in the Blood is, it might the sooner and more effectually be circumpelled to the Colatoria's and Emunctoria's; yea those that are more copiously collected or infinuate themselves into the Body like Vapours, must be expelled again in the same Form and Manner they enter'd, as by superficial Evacuations, proportionable Sweatings, Measels, &c. but the Crasser Parts are carried off by Vomit, Stool and Urine, which kind of Excretions are frequently observed, especially in Intermittent Fevers, if lest to themselves. Fevers themselves are daily Indigitations, which demonstrate the Motions and spontaneous Endeavours of Nature, and by the usual Vital Motions to throw off what would be prejudicial to the Vital Parts, that it may do no injury by refiding in the Body, and fo is continually separated from the found Parts, and at last by degrees or altogether cast out of the Body.

Demonstrate the Endeavours of Nature.

employs.

There yet rests to be explained what I mean by the usual Actions, tion of the u- Secretion, Excretion, and Nutrition, which are the means that Nature

which Nature employs to obtain her End.

In order hereunto, I presume it is taken for granted, by all Men of any Competent Understanding, that first the Conversation or Life of the whole Body, is freed from the Affault and Injury of Corrupted Matter, by the perpetual Motion of the Blood to and through the Porous Parts. Secondly, That by means of this Motion, partly the Blood and other Liquors are kept in a due Confistence, in respect of Tenuity and Fluxility, by compelling the too fubril and active Fermentative Salino-Sulphurious and Acrimonious parts to the feveral Colatories and Emunctories there to be discharged.

recrements our Body.

The ordinary Thirdly, That these Recrements which either arise from a long Altenuation out of the Blood, or are brought into the Body by what we are assuming, are partly of a Tenuious, Acrid, Salino Sulphureous quality, B. Partly very fubtil, Aquoso vaporous, Halituous and Spumid, C. Others again are of a Mucido Visced and Tenacious Confistence. 4. That the first kind are seperated by the Kidneys and sent into the Bladder; by

the

the Liver into the Gall Bladder, by the Pores to the Skin, and there evacuated. The fecond kind commonly pass through the Skin by Breathing Sweats in the form of Exhalation or Vapours. The third are evacuated through the Guts by Stool; through the Nofe, the Mouth, and fomtimes through the Throat and Lungs by Coughing, &c.

These Motions which indulgent Nature generally employs in time Note. of Health, the always make use of in time of Sickness, to cast out what is offensive and hurtful, and that only by increasing the Degrees of Motion, frequency and continuance as the Disease or Hurt requires. Accordingly, in Sudden and dangerous Cases, Nature acts with greater Celerity, Strength and Constancy; but in Instances that are less menacing, the acts more leifurely and gently with intermixed Reft, re-

collected Strength and repeated Affaults.

Here it must also be observed, that the greater Agreement there is observe well between the Noxious Matter and the ordinary Recrements of the Body in their general confistence, the less trouble there is in separating and expelling it; and the less they correspond in that particular, the more dubious, laborious and anxious is the Administration of those Motions, especially if the Matter should exist of a stupendious Subtility, Agility and Activity, as in Sphacelo-putredinous and contagious Ferments, Kaujuara, or violent Gnawing, Burning and Bilious Inflammations; or laftly, some impacted and immoveable Humours, of which more hereafter.

But the most auspicious and beneficial of all these actions is Nutrition, by which the Solid wounded parts are reunited and restored in Nutritian. due Measure and Figure ab intra, and the dimished Fluid Parts are repared and brought to a laudable Confistence. But fince none doubt the touth hereof, it would be losing Time and Labour to insist longer upon adventure, all things confidered, among an hundred thouland, a M.Ji

finall rarely meet with fuch another Patient. Nor will this feet

and Marks, inordinated ormations, Surcement of Exercicences Sc. the

of never to folid a Contliguer, are vocycey often deliroyed, or gently diffolved and diffipant III to P. A A P. destenest, or the touch

off a dead Blans Hand 3 by which means, in fuch as are Timorous and That innumerable instances confirm us in the Opinion, that our internal Avent, Nature, does effectually operate in the total Excuf-Jion of all Diseases, whether Acute or Chronical.

To this Head appearing allog the Egeds which are frequently ob-Hence arose those common Sayings; I hope my Disease will go Tie common off again, or, let Nature accomplish its own work in her own Me- sayings. thed and if it happens to fucceed according to their Wilhes, they further add : I would take no Physick, because I relyed upon the Goodness of my Constitution on location winds

Nothing is more frequently observed, than that the Poorer fort Nuc. of People in Fevers have recover'd their Health again without taking any kind of Medicinal Prescriptions, but only from meer Rest, Temperance, and Abstinence from indiscreet and rash Refrigerations, in which they have been more happy than others, who at the fame time and under the same Disease, have been cloy'd with a superabundance of costly Medicines to little purpose.

I have already faid, that Nature conquers Diseases by Secretions and

Excretions

In which Left. Now the Affects in which Nature frequently and dextroufly exerts her ons Nature ex. felf, are chiefly, whenever the Lefton diffurbs the Humours themselves, erts her self or where by means of their Appulsion, the Hurt may be cleanfed and carried off; but the affair is otherwise, where the Damage of the So. lid Parts are the Foundation of the Affect, and especially where a confiderable share of this Solid Part is detrenched; for there the wounded Vessels and Passages, dedicated to the ordinary and large Appulsatino of the Humours are prevented from making Solids; because the con-Where Nature tinual use and Transflux of such Humours never rest, but are in continual Motion towards such a part; where any Matter is settled, which effett. cannot be diffolved, purified, or washed away; or where any Solid Excrescences are formed by the intrinsick Intrusion of Violence of such a Body; for in fuch cases Nature is unable to perform any thing by its ordinary Motions and Humours, therefore we must expect nothing from her of this kind. As for example, in De afness, where the Organs are Eroded or Obstructed by too large a quanity of Matter; or in Blindness, where any thing is grown over the Pupil of the Eye, or a Catatact engendred under the Pupilla : nor in large hollow Fiftulous and Cancerous Ulcers, and Stratomatous Tumors : in a Sarcoma, Sarcocele, Bubonocele, or in luxurious and fungious Excrescences. Nevertheless ture cannot be the efficacy and affiftance of Nature cannot wholly be denyed in any of

e molt aufpicious and beneficial of all thefe actions is Nuted

denied in what these Cases, how stubborn and impossible soever they may seem to

ces thereof.

Nor is that the only Example extant, which is given by Bartholinus of a Sphacelus, which had been remakably restrained in its progress, Several infian- the corrupted Part seperated from the Sound, and all by the sole Power and vigour of Nature; for we have plenty of firth inftances, the peradventure, all things confidered, among an hundred thousand, a Man shall rarely meet with such another Patient. Nor will this feem strange, when we consider that the Nævi Materni or natural Moles and Marks, inordinate Formations, Sarcomata's, Excrescences &c. tho' of never fo folid a Confistence, are yet very often destroyed, or gently dissolved and dissipated by a simple outward Amusement, or the touch of a dead Mans Hand; by which means, in such as are Timorous and Credulous, the Imagination is irritated to exsuscitate and force our vital Actions to a more Vigorous and durable Motion upon, or to fuch an affected and disfigured Part, that the might demolish such Structures as were inconveniently raifed before.

Amulets.

To this Head appertain also, the Effects which are frequently obtained only by Amulets; not that they make any great alterations upon any Matter in the Body, but that the Agent In our Bodies, is thereby, as it were, excited to enterprise or omit divers Motions. Hence the effects of Amulers exert themselves in such Affects as should be cured by Motions; but much more accomplish their ends on such Persons as are subject to suffer strong Impressions upon their minds and resign themfelves to the Conduct of Fancy and Imagination; but feldom prevail upon the obstinate, and such as are of a turbulent, violent Teminence from indifferent and rath Refrigerat 199,

Note.

am As touching the forementioned Affects, which folemnly constitute that Subjectum of our Natures they are as well Chronic as Acute Difeases and tho in Chronic Distempers, the Spontaneous Excussions of Nature do not to folemnly and frequently occur; yet in them is cleared the diffe-

Of Chronical Difeafes.

Excretions

rence

zence for which the Actions of our Natures are excited to oppugn the Enemy, fince fuch only as would infest us with a Prefent Mischief, are affaulted with a Vivacious and vigilant Refistance; but such as design Mischief to the Body, and yet are Sluggish, and confist of no very obnoxious Particles, are negligently and leifurely thrown off, or at least

restrained from doing Injury.

Of this we have plenty of Examples, in the Works of feveral Learned Phylicians and Chirurgeons, especially in the foregoing Chirurgia Curiofa; how feveral Persons have endured Ulcers, not only in the Stomach, Midriff, Guts, Liver, &c. but in the Heart and Brain, and being a long time generating, wherein the Patients fuffer'd intolerable Pains, and at last a Ceffation of all Actions gradually followed. It's observe. also to be observed, that the more Genuine Inflammations of the noble parts of the Body always haften to a Pus or Corruption, and are either expelled in a few days with the sharpest Conflicts and universal Febrile Motions; or elfe there happens a general Paule and Omission of all Motions, where there is no more hopes of a Victory and an Abhor-

rence of all kind of Refistance, which we call Dying : 1810 vol 61 61 616

Examples of all their kinds may be found in the Works of the follow- Several Examing Authors; Hildanus cap. 1. obs. 13. gives us the history of a Patient where whole parts of the Brain were taken out, and yet the Patient recovered. Dodonius 1. 2. obs. 3. of a Sphacelus in the Brain. Sculte tus obs. 8. of a deadly Contusion of the Brain and yet the Patient lived nine Weeks. Bartholinus c. 6. hift. 21. of an Exulceration of the Stomach. Valeriola L. 2. obf. 8. of Inflammations of the Diaphragma. Zacutus Lustranus, the chief of all the Medic. Histor. of Tumors of the Diaphragma, whereof some have been sooner or later extremely pernicious. Rielanus of an Abscels in the Diaphragma arising upon a Tertian Ague. Ametus Lustanus of an Ulcer in the Intestinum Ileum, which was perfectly cured. Becker of great Erofions in the Guts. pag. 128. It would be too tedious to recite all the Authors that have written upon Inflammations, Schirrous Tumors, and Ulcers in the Liver and other Affeets incident to human Bodies, especially such as are called Acute and threaten a more present and sudden Danger (of which more anon); and yet there is never wanting a proportionable Resistance and Repulsion in That there is Chronical Diseases, if not a full and vigorous Expugnation and Depul never wanting fion. Hence in Chronic Discases there are rather Endeavours and At- a resultion in tempts, than any perfect and powerful Operations to eradicate the chronical Diswhole Effects. Such are the Spasmodic incompleat Motions, whereby eases. the abounding and more fervent Blood is brought towards the feveral Emunctories, but not wholly expressed and promoted there.

Hence the Arthritis in young people, the Sciatica in Middle aged, Gonogra and Podagra in the Eldeft, where the Arthritic Pains are much Note. the same with the Cephalalgia and Hemicrania, and indeed are but the returns of the fame Difeafes, which endeavouring and attempting bleeding at the Nofe, or former customary Scarifications, Phlebotomies, Sweatings, &c. which ought to have been constantly repeated after grown into a Custom, which is certainly a Miserable Life; I fay for want of those customary Evacuations, the Humours condense and settle in other parts, and in all probability cause Arthritick Pains; but the Arthritis that frequents and molefts the Shoulders and adjoining parts, with violent, pungent and gnawing Pains, common-

ly seize upon such as were Subject to Hamopthysic Eruptions in their younger years. Such as are troubled with the Sciatica and pains of the Loins and Back, the Disease proceeds from the obstruction of Cruent Bloody pissing, Hamorrhoids, &c. which have ceased to flow as for merly; or from the Stone in the Kidneys. Such as are Gouty must attribute their pains mostly to the Obstructions of the Hamorrhoidal Excretions, as the Varicost in them evidently testifie, where the Veins of their Legs are generally Tumissed with condensated and Ponderous Blood.

Pardon my presumption in mentioning the Abstruse Pathology of some of the most Unintelligible Affects, so little considered by many pretended Physicians, tho' diligently observed by the more circumspect and Antient Practitioners; which might admit of a Severe Resection upon a Person of my tender years, unless that piece of Justice is done me, as to consider, that indefatigable Industry and a diligent Inquisition into other Ingenious Men's Practices, and a discreet Application of the Theory, will instruct one better in a Year, than others can attain to in several; especially if, like Diogenes in his Tub, they burk continually in one University, without seeing the Sun shine in other Regions,

However I will venture my Sentiments into the World, in expectation of the Appropriate or Profession of the Appropriate of the A

tion of the Approbation or Refutation of the Learned.

The Causes of Arthritic Pains,

I am of Opinion, that almost all Arthritick Pains derive their Orriginal from one of these three Causes. First, they either proceed from an Hereditary Disposition; or secondly follow upon some Insufficient and Febrile Discussions and Excussions. or Unsufficient and Febrile Discussions and Excussions. or Unsufficient and Febrile Discussions and Excussions. On which Head I am of Opinions that no Person has exceeded, if equalled, the Learned Sydenham de Rheumatismo.) Or thirdly, that they generally happen to those of a Sanguineo-Cholerick Temperament, either upon great Evacuations of Blood, or at such an Age as they should, or in such Persons as were accussomed to such Evacuations.

Observe.

In confirmation of this latter opinion, which I shall chiefly infill upon, tho without neglecting any that is material in the other particulars, it's worth our while to observe, that all Arthritic Pains generally happen in such Places to such Persons, and at such respective Times, in which the Hamorrhagia's were formerly wont to visit the Patrone Hippar pocrates has observed l. 3. Aph. 27. of the Hamorrhagia Marium in Youth, that if they do not readily succeed, the want of them causes the Head-ach, Burnings, Redness of the Face, Inflammations of the Eyes, the Tooth ach, Anguina's &c. And in another place affects libits. Aph. 29. that the Hamopryses happening to young people, between 28 and 36 years of age, if they did not constantly observe their course, and break out kindly, and that a Consumption or Phthisk did not intervene, then the Arthritis Scapularis and Humelaris, the Pleanist, Irequent Coughings, Squinancies and the like, would certain follow.

In Middle aged People, Hippocrates also observes, 1. 3. Aph. 30. and testimes upon his own experience, that if the Hamorrhoidal Exerctions were not duly performed; when Asthmata convulsiva, Hypochondriaea, Colica Hamorrhoidales and Nephritica Nephritico Ischiadica, Arthritides, and at last the Gout both in Hands and Feet, the Cramp, Co. would unavoidably succeed.

The

The same does our great Master observe in Ancient People Lib. 3. Aph. 31. that the Hemorrhoids and making of Bloody Urine, are reckoned very dangerous; and yet if they ceale too foon Nephritic Pains enfue, the Varices, or the Gout. These Indications are collected from Experience, and explain the whole Matter, viz. that fuch Arthririck Affects, are nothing else but Hamorrhagick Endeavours familiar to Plethorick and Sanguineo-Cholerick Bodies which are generally irritated and provoked by turbulent Commotions of the Mind. 1911 81

Now that Nature, in such cases, does not absolutely obtain her defign and end, yet the attempts and endeavours it by her Tonick and Spalmodic Motions, to bring the Tonical Congestions of the Blood to the several Emanctories; which if vigorously exerted might obtain a benealter the define Four da

ficial Exoneration.

Hence those actual Hamorrhagic Disburthenings which happen to Plethorick Bodies, otherwise in good health, are esteemed so much the more advantageous if spontaneously performed, and certainly prevent

many dangerous Accidents in almost all ages.

This is well known even to the Vulgar, that Bleeding at Nofe, does take away on at least eases the Head-ach, and that young People who are accustomed to it, are seldom or never troubled with the Pleurify, Squinancy &c. for which reason all Men of sense esteem such Hamorrhagmis a great behefit of Nature. To which I may also add an Observation, as well known to the Common People as to the most able Praditioners; viz that fuch aged Folks as are feized with the Gout, atrain to a greater Number of years than others; and the realon is plain, because the Noxious Humours, which were opt to cause dangerous Diseases, are leifurely repulled, confumed and congregated in the more ignoble parts: when, on the contrary, young people are fallen upon with greater Fury and Impatience of Nature, by those Excusiory Motions, the they find a more sudden distribution and retrocurring of Mattenthan in those of greater years; but if in the beginning of such an Artbritick and Hamorrhagick Congestion, the Patient has lived too irregularly, or Repelled it by contrary Medicines, then it would be fol- Note. lawed by Internal Inflammatory Affects, which incline to a Hectick er Paralytico Apoplectick Omiffions of the Tonic Motions Will Wandbloom

But thele Aribritico. Hemorrhagick attempts, are not only Examples of Nature, agreeable to what we are discoursing; for Nature exerts her felf in several other Methods in Excussing Chronical Diseases, and tho it does not fo frequently occur, that they come to a perfect Cure; yer we we find some such examples every day. Forestus 1. 19. obs. 21. mentions a Hydrops Anafarca cured by a spontaneous Purging. Smetius Miscel p. 564. rells us of a Dropsy which was excused by Vomiting up the Water Schenkius his obf. apgives us leveral fuch Inftences prone of a Droply cured by meer Natural Sweats, another by continual Motion, without the use of any Medicines. Hildanus con. obs. 50 relates that a Droply was perfectly cured by a Hamorrhagia Narium ne Valleriolant, 100bf. 50. rehearles a remarkable Inflance of a Man that had been Bed-rid feveral years of a Palfie, and was cured by a fudden Fright, an The House being on Fire and feizing his Bedstead, he recollecting all his Strength, excited by the Terror of his Mind, sprung out of his Bed, went out of the House, and had the use of his Limbs always after. Paullinus obf. ad act. Nat. Cur. Dec. 11. Ann. vi. and Camerarius Syllog. Memorial c. 5. part 30. gives us the like relations.

Examples

In the year 1700. I being then at Paris in France, a Gentlewoman of about 40 years of Age, of a Melanchely Constitution, who dwelt near my Lodgings [dans la Rue de Fourc au Fauxbourg St. Germains, aupres l' Hostel Imperiale] had been several years afflicted with two running Sores in her left Leg, which at the Increase of the Moon discharged great quantities of waterish Matter. It happened one day in August the went to Church, and as the was telling o're her Beads, and fitting her left Side near the Wall, under an old Picture of some Saint or o. ther, which suddenly falling down and hitting her fore Leg (but without doing it any Injury) put this poor Gentlewoman into a very great Fright, as the told us when the came home, and as I could eafily perceive by her being something Feverife, which went off next Morning. Four days after the defired me to fee her Leg. which to my Admiration appeared very forward towards a Healing, for I had feen it about three Weeks before in a very ill Condition. when the had a Chirurgeon to dress it; but he and others having done her no good, she now resolved to make no further use of their Media cines, and only applied some Plantan Leaves to the Sores, and in a Months time the Ulcers, which in truth were before very large and deep were both perfectly healed up; and this Gentlewoman fincerely believed, that her Sores were cured by some peculiar Virtue in the Saints Picture that flruck her Leg; nor could I ever perswade her to the contrary, by all the Arguments I could use against that fond Opinion of

Cold Bath.

But we not travel out of England for an Instance, if we consider the Cold Bath, a thing so very useful in exciting the Vital Actions to a more vigorous Motion, in order to open Obstructions, and sorce the Liquors through their usual Passages; or that the Noxious parts of the Blood might by that means be the sooner excussed. Not that there is more virtue in that Water than in others, to penetrate into the inward Parts, and correct the Juices; No, but directly contrary, for Cold makes it unactive; nor is it only the Extremity of Cold that does the Business; but the sudden Immersion of such infirm Bodies, that strikes a Dread, Terror, and Assightment into the Mind, and excites Nature to a more Vivacious Motion, in resisting that, which by it's extraordinary frigidity and sudden Surprise, might produce some corporal Detriment; and for this Reason it is, that Timorous and over nicely sensible People receive the greatest Benefit by it, especially in Palsies and Lameness.

Concerning the Methods of curing amongst the Indians.

The Indians in North America, have much fuch another Method of curing Fevers, and as foon as any of them fall fick of that Difeafer they put the Patient into a Sweat, which they dexteroully perform only with hor Stones, and as foon as the Patient is ima good Sweat; they all of a fudden, and at once, pour upon him from Head to Foot, a great quantity of Cold Water, and if he is of a firong Confliction, they add a fecond Pail full as before; which puts the Patient into a terrible Fit of Shivering and Quaking; but by this means they improved a feel, but this must be done in the very beginning, nor the Cure will be as dangerous as the Difeafe: if it happens that they can Sweat the Patient near a River, they make him run is once due of the Sweat, into the Water over Head and hars. This is their general way of Cure, and the Method they chiefly rely upon; and not with another shift and another shift and the Method they chiefly rely upon; and not with another shift and any of Cure, and the Method they chiefly rely upon; and not with another shift and any of Cure, and the Method they chiefly rely upon; and not with another shift and any of Cure, and the Method they chiefly rely upon; and not with an another shift and any of Cure, and the Method they chiefly rely upon; and not with another shift and any of Cure, and the Method they chiefly rely upon; and not with another shift and any of Cure.

out great Reason; for what must cure us is always in us, if we knew bur how to manage or excite it to Action. A Fire Stone does not make the Fire in the Steel, it is there already, and the Stone does only excite or provoke it. Cordials, Chymical Preparations and great Doses of Decoctions, Powders &c. are not things to be absolutely depended on; but if we have a right Apprehension of the Indigitations of Nature, and affift her accordingly, very finall Matters will relieve her; but let us trace and confider her Preservative Motions a little further.

To many Persons there happen Spontaneous Loofnelles, sometimes The Preservaoccasioned by the change of Seasons of the year, as at Spring and Fall, tive Metions and other whiles by committing Errors in their Diet, eating Far and of Nature far-Greafy Provisions, and drinking after them New, Muddy, Thick, Nuffy Beer or Ale. Now if Nature is once accustomed to relieve her felf by Diarrhæa's, and they afterwards should not proceed as usual, many grievous Pattions will follow; which by the Stafis, Impaction or Corruption of the Crudities are procreated; but if fuch Excussions orderly and timely happen, then the Body is thereby preserved from Injury and further Detriment,

Natural Sweatings at certain Seasons of the year, and sometimes upon Note. change of Weather, tho' they make the Patient Dull and weak, yet they prevent several approaching Diseases; and on the Contrary, when they Omit their usual Visits, the Rheumatifm, Pain and Wearyness in the Limbs, the Erifipelas, Imposthumes, Coughs Asthma's, Fevers, &c. are an Eafy and Secure Method, as Calenoillimo doul to sonsupsinos at

To this Head we may also refer Epilepsia's, and the several Diseases of Several Af-Virgins, which are cured by Matrimony, Child bearing, &c. The Cir-fetts are propositions of young Children when they are Breeding Teeth. may object the The Abortions and Mola's in Women, the many Troubles they encoun-wonderful exter when such a Fetus is Dead : the several Consectaries of the Irrup- Nature. tion Coagulation and Corruption of the Milk : the Hypochondriack Affects which arife from obstructed Terms and Hamorrhoids; to which the the Longings of Gravidated Women, and the Green Sickness in Maids are near of kin to some that are visited with Fevers. But this Head is to copious, that I shall leave it to another time. And so much for Chronical Difeates,

In Acute Diftempers the Trophies of our Internal Agent are more of Acute Diffrequent and conspicuous, and discover a more Vegete and powerful rafer.

As in Fevers, where the Concourse of the Vital Actions are so evil of Fevers dent, that if they should neglect their continual good Offices, irreparable Damages would ensue. Hence it is that a Contagious Disease is then accounted Malignant and Deletorious, when it infinuates itself into the Body unrefifted by any Febrile Agitations of the Humours, but freely acts in the Body concessa mora & Spatio nocendi, under desperate Terrors, Lofs of Strength, Lypothymies, Obnubelations of the Mind, and this without any Help or Relistance; for then not only sudden Death, but a more speedy Corruption of the Cadaver does follow.

On the contrary, where there is an affiduous Febrifick Commotion, Note. Secretion and Excretion does luckily fucceed; there the most grievous Fevers, yea those which they are called Pestilential are subdued, to the great benefit of the Patient; and this leads me to repeat what I have

have said before, viz. That a greater number of People are recovered out of Acute Fevers, yea and out of Contagious and Malignant Fevers also, without the use of Medicines, than are restored by Bleeding, the use of Opium. Vomits, Purges, Sudorificks, and other Common Methods, so much in

Vogue among such as know no better.

Observe well-

secth, may object the

So that by what is already alleged, it is certain, that aPhylician cannot oppugn such Pathemata's in Fevers, which a Vulgar Error has denominated dangerous Effects of that Difease, without Manifest Injury to the Patient. As for instance; to cool the Heat of an Inflammation by holding the part in cold water, will certainly cause a Sphacelus in such a part; nor can I allow the indifcreet adhibition of Opiats to make Restless Patients sleep, unless the Physician has a Mind to cause an irregularity in these Motions, and if it increased and continued, to throw his Patient into a greivous and dangerous Delirium. Nor can a Phyfician hinder Seasonable Sweatings, or extimulate unseasonable ones, without detriment to the universal Decursion; nor must we attempt to obstruct or suppress the Critical Endeavours, especially the Actual Exercises, tho' they cause never so great a Commotion before they break through,

A Physician should rightly inform himself of the Designs and Intentions of Paroxisms, the Opportunities of Evacuations, and as well their preparatory Furnitures as the Value of their Excretoria's, that he may know how to succour them, at least with a proper Regiment or agreeable Medicaments; and then he may happily overcome Fevers by

an Easy and Secure Method, as Casalpinus affirms.

Carpe Cibos faciles, placidamque admitte quietem ; ie Cir fests are from Curabis varias hac ratione Febres.

But if he perceives the Motions disorderly, and no Indicia of Preparation or Concoction, nor that Artificial Medicines or orderly Regiments will avail, in order to provoke them; then he has a fure Foundation to prognosticate, which will shew the Certainty of the Medical Science, and the Excellency of the Medicinal Art ; also if the Physician finds an inordinate and turbulent Concourse of the Vital Motions, and that the most proper Medicines have had no effect. there he may infallibly predict, that there is no further hopes of Life. Therefore a Physician should have care at such a time not to promise any good event out of a meer Inconsiderate Hope, or brag more than he is able to perform, as a great many do, to disparage others who were concerned with the Patient before, and thus only commend their Ignorance by their lying Prefages.

In Acute Diseases, Fevers are the chief, wherein our Internal Medicatrix discovers her Inclinations, for the either suddenly and wholly forbears her beneficial Operations, as in Apoplexies, Catalepfies, Palfies, Syncope's and Death; or with an augmented and invigorated Force, beyond the accustomed and ordinary Degrees of Acting, equals the Proportions of her Motions to the habit of the Lafton, the Cause already present, or the Disease which is but beginning. no Man imagine, from what has been faid at any time in this Difcourfe. as if Nature always acted with such a Mechanical and Mathematical proportion of Motion, that the never fails to encounter or lubdue the

Ob-

Observe.

Object, with which she contends; with an exact counterforce, according to the proportion of the offending Matter: no, the fometimes grows Outragious, and not only acts by an Erroneous Invafion; fometimes too Timorously, and other whiles too Rashly; but she also Errs now and then in selecting improper Organs, and attempting her Secretions and Excretions through incongruent ways and Passages.

Which Constancy and Staggering of Nature, exquisitely agrees, First The notable A. with the Rational Motions of the Patients Minds, and hence it is that greeableness of Nature with those Actions in Slothful People are Sluggish; in the Rash and Passonate the motions of Violent, and in Easy constant Minds very Calmand peaceable. Secondly, the Mind. they agree with the other Perspirabilities and Liberty of the Passages in the Body. Thirdly with the remaining Power to Act, also with the Age and remaining Vigor of the Patient, according as he is more or less enervated, and rendered uncapable of Action, or whether the Sickness proceeds from an ill way of Living, sudden Terrors, Cares, Difiractions &c. Fourthly, above all it's most certain, that those who are frequently dedicated to the Rational Act, labour more heavily under Sickness, than simple and negligent persons; insomuch that the untimely Speculations, Consultations and Anxious Thoughts, add real and present Injuries to all such Diseases, in which Nature used to exert her felf too vigilantly. Now all this being certainly true, and exemplified by daily experience, I will proceed to the next Chapter, and explain the way and manner of Nature's Working.

CHAP. IV.

A further Declaration of what is said; That, of all Mixtures in the Universe, our Animal Mixture is most subject to Corruption, and yet is preserved many years, and that amongst the Organs of Corruption, Humours, Heat and Air, which all induce and excite a speedy Putrefaction, to which our Animal Mixture is always so Inclinable.

HE Conservation of any thing Corruptible to so high a degree, must Life what. be performed by some Inward and Immanent Principle, without any Material Concourse, and that is properly what we call Life. Now this Conservation is not performed by an abstruse and imperceptible Occult Quality, or unintelligible Spiritual Efficacy; nor by an inward kind of a Material Conditura, as some use by way of similitude, and call it Ballamus Vitalis.

But it is perfected by a Mechanico-Physical Operation, viz. a con- How the Body tinual Local Motion or Circumagitation of the Humours to, and through the Solid Parts; and yet such a Progressive Motion of the Humours, cannot defend them or the Parts through which they flow, from Corruption, but that they will all successively run into a Dissolution, or into a corruptive Transposition of its Mixture, which they must necessarily suffer, tho they are in Action, and even under the Protection of the Vital Conservation; therefore the principal Actions in this Conservatory Mechanism, must fundamently consist in the conrinual Secretions and Excretions of Corruptibles, or such parts of them

them as are actually suffering Corruption; which is done with all possible dispatch, lest their longer Continuance should cause a sudden fermentative Diffusion of the Corruption over the whole Body.

performed.

Secretions how Now this Secretion is either performed, First by means of a Perpetual Motion; or Secondly, by a Particular Structure of various Colatory Organs, by whose perpetual Motions the Humours are brought In a continual Transcourse to the several Colatoria's, through which the more Active and over Tenuious corruptive Particles flide in their Passage, and so the remaining quantity of Humours are repurged from such corruptible Portions; insomuch that by this Transition the Humours wash away, and carry with them from the Solid Parts, such Portions as are beginning to corrupt; for a great Corruption in the Solid Parts, will infest them with stinking Matter, which may eafily be scoured away, by the Transslux of Humours.

This Hability in transmitting and separating the Tenuious and over Active corruptive Portions, confilts in the Structure and proportionate Stricture of the porous Parts. The chief point of this is Motion, by which the Humours are perpetually carried to and through these Porous Parts, which Parts are kept in a due and proportionate Stricture, that they be not too far distended by the forcible Appulses of the Liquids; for otherwise the Crass as well as the Tenuious would promiscuously break through the Laxated Pores, and then the Secre-

tion of the Tennious from the thicker, would never succeed.

Pullation.

Observe.

Excretion.

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The first and fundamental Motion of Life, is the Pulse, which never omits the Circumagitation of Humours, unless impeded by the inter-vention of some remarkable Error or Obstruction. Its Motion is Adequate and Forcible, by which the Humours are driven to the feveral Colatories. The Tone of these Parts and the proportionable Streightness of them, do in some measure result and stop the Current of the Transflux; so that when the thinner Parts, by means of the pulfifick Force, and the Refistance of the Parts through which it is to pals, after some Compression, being forced to Slide through the narrow Porous Colatoria's; it leaves the thicker and more substantial Parts behind. These kind of Recrementitious, very Tenuious and Active Humours, are partly Spumido-balituous, and partly Salino-Sulphureous; the latter are Craffer, but more durable than the Acrimonious, Eroding and Burning Humours. The first kind are generally expelled through the most dense parts of the Skin, and they either successively exhale in manner of a Vapour, or upon some great Commotion, are thrown out with a small quantity of Aqueous Matter wherewith they are intermixed; and then it's called a Sweat. The latter kind are commonly Transcolated through the Kidneys and constitute the Urine; but if they abound in Quantity, part of them will go forth by Sweating, if not forced by the contrary Evacuation. The more Crafs, Mucido-Viscaginous and Salino-coagulatory quantities are thrown to and through the Guts, with other Excrements.

Th is s the usual Method, by which the Excrementitious Apospasmata's, which are under a perpetual Appulse of Humours to those Secretory Organs, into which they are forced; and being driven through them by Transpulsation, are there separated, to prevent their Infecting the rest of the Humours and hand and restaurs

remail accretions and Excretions of Corraptibles, or tech parts of

But let us also observe from whence such Recrements in the Body do From whence arise; in order whereunto, we are obliged to consider the Human or the Recrements Animal Body in a two-fold respect; first in its Proper State, wherein it's dy. able for some time to substite without Food: Secondly, the Necessity of its being Relieved in that condition by receiving Nourishment, which may be called its purely Naural State; to which we may add a third, viz. Proness or Inclination to Corruption.

First, we may observe, that such Recrements in the Human Body, are How engenders. engendred out of a proper Diffolution of the Animal Mixture, and by the Avulsion of a continual Attritory Motion the Humours which are of a thicker substance, are either continually rubbed off against the folid Walls of the Porus parts, or are successively separated and wasted by the Intestine Motions of Heat and Fluidity. By this means it comes to pass, that the Blood by degrees is diffolved and converted into an Excrementitious Serum, the most Tenuious and Mucid parts of the Blood are extenuated into an active Saltness, the Axunguous, Sulphurous parts becoming too Agile, by their being perpetually enraged and extenuated, they take their flight and leave the Craffer Mixture behind, which join with the Salinous Parts in a New Acrid Mixture. The rest being more Mucofe, as having loft their Agile Faculty, conglutinate by degrees into a tougher Matter; for having an Oily Substance in them they cannot mix with what is Aqueous, and so Swim, and are dispersed here and there, till they find a place fit for their reception.

Of the second there is no necessity of saying much, because it's obvious to every one, that several such like Heterogenea's, both actively Saline, Salino-Sulphureous and Acrimonious, are conveighed into the Body by such things as we daily eat and drink, and much more into the Human than any other Animal Body whatsoever.

Of the third it's chiefly to be observed, that the whole Mass of Humours and the Universal Mixture of the Solid parts, cannot be transformed into any thing but these three Corruptibles, viz. either coacervated Salsa Acrimonia's, or Salso Sulphurea's which much resemble Natural Biliosa's, or lastly into a true Putredinous Corruption, all which do gradually invade the Animal Mixture.

Intemperate Salts are produced, either from some ill Quality in Aliments, or from an Imminution of regular Secretions and Excretions; which Imminutions equally depend upon some impediment or other in the Colatories, or sometimes on it's Saline quality, which is it is severe and subastringent, it will more powerfully provoke a Constriction of its own Passages, and consequently their Imminution.

This also happens in Generating, Intemperate, and Salso-Sulphureous Matters, which generally proceed from the too frequent use of Spice, Wine, Brandy, &c; but this is so well known, that it would be needless to detain the Reader longer about it. And as to the Imminution of a Regular Excretion, it is to be observed, that the Coacervation of such Recrements, and chiefly the Imminution or Diminution of such Excretions, as ought to carry off the most Tenuious, Spumid and Halituous Humours, as the Diapnoes, or Insensible Transpiration, draws after it imminent and present Dangers.

Such Putredinous Humours, as are properly called Corruption, are Caraption.

engendred either by an inward Stagnation of the Blood, in or near a

Solid part, where it turns to Corruption, and like all other Putrid

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Ferments,

Ferments, dissues end communicates itself to the Neighbouring parts: or by means of some intrinsick Contagions or Miasmata's, the most violent whereof is that Contagium Pestis whose putredinous Efficacy sufficiently demonstrates; First, the Permaning Flaccidity of such Bodies as die of the Plague, and their sudden turning to Stench and Corruption. Secondly, the Nature of Anthraces or Carbuncles, which as they are nothing else but Pustula's formed into Pestilential Miasmata's, extruded to and concentrated in the more Ignoble Parts; this Extrusion being to such Parts as immediately suffer the continual Afflux of Blood, there follows a sudden Sphacelatio, which in sew hours not only produces a Filthiness, but also a Diffluent, Corrupted Matter, or an absolute Putresaction.

This Corruptela itself also agrees with the Natural, or as some call them Non-Natural Excrements; for the Contagion itself, and the most subtil Portions of the corruptive parts, are of a Spumido Vaporous and Halituous Consistence, and therefore ought to be referred to such parts as are most proper to such kind of Secretions, viz. the Periphery of the Body, where it either flourishes with Patechia's, or if possible is ejected by Transpiration or Sweating. Of which see the Learned Sydenham, De Sudoribus, in the beginning of his Discourse on Pestilential Fevers, where he takes espicial notice of the Natural Excretion of such kind of Sweatings, and that they ought to be assisted by an easy external Regiment, and chiefly by Moderate Rest; but that all Hot Diaphoreticks and Anxious Sultry Regimina's are to be avoided as Noxious and Dangerous in those Distempers.

But if this Excretion is less in proportion than it ought to be, then Nature wonderfully collects it, and so throws it off either by heaping it together in a Carbuncle, Bubo, &c. as good Symptoms of Recovery; where as well that part of the Blood as the Humor Mucidus lentus being less Fatty, are therefore indisposed to a true Putrelaction.

The Crasser Parts resulting from a Putredinous Corruption, are Salino-Sulphureous, very Acrid, Salso-terrestrous and of a Dry Consistence; and how Nature Institutes such an Ablation I have shewed already. By all which it's apparent, that the more and nearer such a Heterogeneous matter, resembles the Crass of Natural Excrements, so much the less is the present Danger by being farther from an Entire Putresaction; and with the greater Facility, Nature performs the Excussion of the Putrid Matter, by Secretion and Excretion: But the more it differs from this similitude in substance, in being either too subtil or in a singular quantity; yet highly active or attended with a very particular Fermentativo-Putredinous Specie of Corruption, the more dubious, undertain and tumultuous are the Secretions.

From hence follow Anxieties, Deliriums, trepid Desertions of the Vital Motions or Lipothymies; as also Furious and rapid Intensions of the Vital Tone, with an Extinction of the Senses or Convulsions; and at last an utter Cessation of Motion, to give place to Death.

In the next place it seems necessary to observe, what excessive Perturbations happen, when Nature either Erreth or Negless the regular Courses of Secretion and Excretion; for then nothing can be expected, but that the Patient must undergo the satal Consequences of being deprived of all the beneficial Motions of Nature, seized with a Lipothymia, loss of Strength, and at last to be assailed by Death; or if he escapes

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that terrible stroke, he is liable to to very turbulent Intensions of all his Vigour, as in Convulsions, or by a confused Alternation of either of them : because that which ought to be extruded, is kept back and retained by Nature's erring in the regular kinds of Excretions, which cause irreparable Injuries by fuch noxious Excrements, especially remitting the more Tenuious and active ones, to the tender and infirm Organs of Secretion, in which they fettle; and by the Endeavours of Nature are forcibly driven in, and fo graudally infer a Destruction. And here I think fit to repeat what I have faid before, viz. That the general Endeavours of Separating and Expunging, is both useful and necessary; but particular Errors suppress all, that otherwise would have had a beneficial Effect.

And fince I am speaking of the Faults, that happen to the Crass of Humours and their Qualities, I hope none will imagine that I incline to that Absurdity, wherein the Modern Schools of Physick fo wonder- Concerning the fully please themselves that they have Invented several Hundreds of different Tasts. Sapores or Tasts, and several thousand Mutations, Mixtions and Tran-Spositions thereof, out of which (as they say) proceed many particular Irritations of the Spirits, Obstructions of the Passages, Vellications, Punctions, Incisions, &c. of those particular parts; which is nothing but obnubulating the most occult Qualities, only with general phantastick Adumbrations.

However, I am certainly affered, that in many, yea, in most grei- The Cause of vous and dangerous Diseases, a Phantastick Variety of a particular Diseases. Acrimony, is not the Cause, but the Motion of Humours; nor is the Motion of Humours, passively obstructed or hindred, as some do imagine; but Altively, a Congestory and Eluctatory Motion, in pro-spect of the Excretion and Secretion, of which I have sufficiently discoursed already, in Arthritick Endeavours.

But here I shall shew, as much as is necessary for the Present; that The Abundant the Blood may Coacervate more than is necessary; which is not only Blood. well known to Intelligent Physicians, but so demonstrative, that none can contradict it. The Consumption of Super-abounding Blood, is evidently the Augmentation of the Body ; first in all the Parts, afterwards and more especially in the most folid and Offeons Parts of it : Nonnatural (as it's called) is its Eliquation by proportionate Motions of the Body : Exraordinary in the sincere Excretion by Hamorrhagia's, which break out inwardly, and cause a Congestion in the same Part where the Eruption should happen.

This partial Congestion made by the Tonic Motions, as may be ob- It's ferved in Women, when their Milk begins to come into their Breafts : Congestion. which Tonic Motions proceed either speedily or flowly; if hastily then an Eructation, or at least an actual Excretion will follow : if timeroufly and flowly, then those Motions remain in a continual and tedious Endeavour, which I call Eluctation.

From this Explanation, one that has but a competent share of Sense may eafily comprehend the Various Arthritic, Hemicranic, Hypochondriac, Sciatic, Varicodic, Erispelatodic, and Podagric Motions; at least he may learn out of the Practic part ; first, the Veracity of the various Hemorrhagick places according to the Age; which is confirm'd by Hypocrates in his third Book of Aphorisms. Secondly, the Truth of the Eladatory Endeavours and Straining in every age, and how they agree with the Eructatories. Thirdly, the Force of Hereditary Impressions

and Customary Usages. Fourthly, the Power and Strength of the Affections of the Mind, where the Motions generally refort, and how they accelerate or disturb the vital Motions. So that in the whole it may be eafily difcerned, how Nature exerts her felf for the Benefit and Ease of the Body, in preventing the slow and injurious Motions of Heterogeneous Matters, from being noxious to the Body; which the performs directly, spontaneously, and with very little Tumult or Confusion, only by the fore-mentioned Motions; tho' where Nature is flack and does not employ her utmost Efforts, as in Chronical Difeases; there we should not be wanting to provoke her to more vigorous Endeavours. In a super of now playing for the a long of the rest And ince I am meaking of the Faults, that dampen to the Cras

Supers or Talls, and feveral time and meters, distances and Tran-

Cablarday , wherein the Modern School

The Application of all that has been discoursed concerning Na-

ly upon the pra. A Theory of the Human Body, disagreeable to Practice, Prognosticks
estical part of and Cure, is nothing but a most INO. Trifling, a Reproach and Scandal to the Profession; the Cause of several unnecessary Controversies, and veresies the Ancient Adage, Optimos Theoreticos, effe mise rrimos Practicos. He therefore that studies to be an expert Physician, should have a special regard to the Pra-Hical part, and duly observe Nature in all her various Motions, that he may know how and when to affift her; and, by comprehending what we have been discovering, may attain the Knowledge of the three following inestimable Particulars.

First From the various Natural Endeavours and Excussions, he may learn the true Causes of many Diseases, which have been ignorantly and abfurdly defined by fuch as wanted Learning and Experience; and therefore have Invented feveral ridiculous Speculations, and ascribed them fometimes to Ferments, other whiles to Savage Spirits, and a-Caul Worms, vontal ye received facerer and in the more control of the control of

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The Benefit as Secondly, By these Contemplations, he will better understand Nabence if we ob. ture's Motions, Organs, and Times of her regular Excretions and Seferve the vari- cretions, as well in general as particular. Thirdly, He may hereby be ous Motions of enabled to perform a Safe and certain Cure in most Difeases; by a due Observation of th se Concurrent Natural Motions; by timely Affifting them if too Slow or Unactive, and by Appealing and Restraining them if too Violent; and if they are totally Deficient, then, without calling his Judgment into question, he may confidently prognosticate the Death From this Explanation, one that has but a competneith a haif for

Chirurgeons as well as Physicians, may collect from this Discourse, that the Moderate Excussions of Nature, ought by no means to be obftructed, which I have often hinted throughout this Brief Difcourse; and may be perceived in External or Internal Inflammations, where, if they proceed moderately, they will come to Suppuration without Danger; but if they should be ignorantly treated, with actually Cooling, Aftringing, Congulating, or Stupifing Medicines, then they'll run into an absolute Patrefaction or Mortification, or else turn to Schirrous,

Stuborn or Malignant Ulcerations.

Now if we consider the wonderful Attempts and various Endeavours of Nature, in Excusing the Putredinous Ferment, of that notorious The French Pex Distemper called the French Pox, it must certainly feem very strange to those that are Ignorant of the internal Conservative Motions, that at its first Entrance, Nature is ready to Extrude it prefently, the same way it came; and in order to that end, an Inflammation is immediately raised, then an Eruption in the Vesica seminales, from whence it's forced forwards with its Spermatick vehicle. Now, let those that pretend to a fafe and speedy Cure of Claps, resolve me, whether it would not be the fafer and more expeditious Method, to help and affift Nature in her Excussions, and especially in the same way she has prudently chosen, than to restrain and oppose her? And yet the Generality of Practitioners, are still employing their Swinging Do'es of purging Medicines, to keep the Body cool and Feeble, and fo crofs the defigns of Nature in throwing off the Putredinous Venereal Matter; till at length it is forced to Stop of itself, and then it gradually infects the whole Body; which is certainly a Strange way of Curing, and never like to have a tolerable iffue, when Nature works one way and the Phyfician another; but on the contrary, it generally happens, that Patients are notoriously Pox'd, by those that pretended to Cure them of a Clap. I will not oppose their Purging if the Inflammation is very violent; but to think to Cure the Patients meerly by Purging without Poxing them is absolutely impossible. Others more Indifereet and unreasonable than the former, perhaps that they might receive their Money sooner, or because they know no better, purge their Patients once or twice, and then fend them to the Wells to drink cold Water, or give them presently Astringent Pills, and thus violently stop the Running, which by gentle Dureticks, Nitrous Medicines Note. and especially such as resist Putresaction, should have been moderately carried off; but the Patient thinks himself Cured if his Gonorrhaa or running is but stop'd, when in truth a little time discovers that he is Poxed with a Vengeance. Now, how well these Practitioners understand Nature, is fufficiently understood without a further Explication. But let us look a little further, and fee how Nature operates in Excussing this Matter: if it is untimely stopped, then this Putredinous venereal Matter, is successively forced and congested in the Groins as the nearer Emunctories, where an Inflammation is raised again, to digest the Putredinous Matter, that if it may be thrown off again in a Fus-like Substance and the Fleshy part becomes more and more putrid to give way to the Congested Matter, and then is called a Bubo, and an admirable Excussion it is, if but rightly managed; but if repelled by the Application of contrary Medicines, as Mercurials, or great Coolers, and Aftringents, or is Scarified or Opened before it comes to Maturity, then nothing can be expected but a confirmed Pox, because the Venereal matter is driven back again. Then Nature perhaps makes another attempt, and causes a Bubo in the other side, and tries, if impossible, to excuss it that way, for since one side fails the other may suc-But the rash and Inconsiderate Coxcombs, that resist her in one

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Attempt, will do it in another, till the Putredinous Matter has gradually infected the whole Mass of Humours, and is become so violent, that it, Ascends and Disorders the more Noble Parts of the Body

Nature being thus unhappily disappointed by her Ignorant Servant, the attempts another Method, that is to throw it off by Blotches, Spots, Beules, Tumors and Inflammations. This the attempts in the Head by Tumours, in the Nofe, Throat and Ears by Inflammations and Funning Sores: In the Shoulders and Breast by Impostbumes; Ulcers, Coughing, &c. in the Back and Belly by Ulcerations, Impostumations, Fishela's, &c. And in the Legs by Nodes, Tumors and Ulcers. Thus is the Body Putrified alive, and to such a degree, that at last Nature or Art can contribute nothing to its Relief; for the Nature strives with all her Might, yet the Noxious Matter has fo far infected all the Humours, that nothing found is left for her Affiftance. However, it is not afferted that a Pox does always gradually proceed from a Clap; No! for fometimes the Venomous matter to fo fubtil and agile, that it infinuates itself into the Blood, without causing a Clap; but in time may be Extimulated by some great Commotion, and then shews its putredinous quality; which, as I have often observed, happens most in Heavy, Dull, Melancholy Constitutions, where the Natural Vigour is flowly put into Motion; but fuch as are of a Sanguine Complexion, Brisk, Airy, and of an active Body, they will foon after such an Impure Venereal rencounter, soon find themselves diverted by a Gonorrhæa.

So that the best way for a Physician or Chirurgeon in such cases is to proceed Moderately, and not attempt any thing rafuly and indif-creetly, left he should hinder Nature in so useful an Act as an Inflammation is. There are also several Dangers that attend the Opening of Inflammations, before they come to Maturity, but being all well known to every ingenious Practitioner, and fufficiently demonstra-

ted in our Chirurgia Curiofa, I shall not rehearse them.

If the Natural, Spontaneous, Hamorrhagiack Depletions of the agers arifing bounding turgid Blood do regularly succeed, they are little or no Dif-Evacuations, if turbance; but if obstructed in its Progress, Congestions will arise in the Neighbouring Parts, and from thence it comes to pass, that such young People as have been accustomed to Bleeding at the Nose, will be troubled with the Head and Toothach, pains in the Ears, Inflammations of the Eyes, Squinances, and Erispelata's in the Face and those that have been accustomed to Hamoptifick Evacuations of the Blood, if they are hindred; Dry Coughs, Convultive Afthma's, Pains of the Shoulders and Scapula's, bloody Vomitings, the Philick and Hettick Fevers will follow.

> For this Reason we are obliged to observe the consentancous Method of Nature, and the great necessity of persuading People to use Moderation in their Diet and Exercise, that they may be able to consume the Super-abundance of Blood; but fince Arguments to this purpofe, will have little effect in this Luxurious Age, at least to perswade them to fuffer those gentle Eruptions of Blood which Nature Excusses, although of not to good confequence in the Future, than if fuch Blood had been Naturally confumed either by Diet, Exercise or Medicines;

Obstructed.

and this ought also to be confidered by those Leeches, that are so apt to Bleed their Patients upon any trifling Suggestion; for if once accustomed to it, 'tis the same with spontaneous Excussions, which cannot be omitted without Danger; whereas, on the contrary, if proper and gentle Diuretica, especially Nitrofa and Cinnabarina, with a small Diet Drink were prescribed, the abounding Blood might be easily confumed, many unhappy Accidents and future tormenting Lingring Difeafes might be perevented; of which Gouty, Rheumatick, Nephritick, and Philical Patients are deplorable Spectacles. and maters it) identification

In Fevers, which was the last Subject on which I treated, I would Fevers advise every Physician to attend his Patients with all imaginable Diligence, and carefully observe the Operations of Nature, with her Symptoms and Eccritick Endeavours, in all fuch Persons as Recover meerly by her Affistance; for by that means he would soon understand what a Paroxism is, and find it by Experience to be the most certain way of Cure, to affift Nature in her febrile Paroxisms, in order to expel the Morbifick Matter, and instead of adminstring Vomits, Purges, Sweats and using unseasonable Phlebotomies, toemploy Corrigentia, Absorbentia, Temperantia, and moderately promote Natural breathing Sweats, or or otherwise as the beneficial Indigitations of our Internal Medicatrix shall premonstrate.

Thus an Ingenious Physician or Surgeon, by accommodating himself Remedies. to the various Operations of Nature, and by ferving her when the wants Affistance, will be able to discover the Specie and Motion of the peccant Matter by her Endeavours, and trace her so exactly, that she shall scarce be capable of Extruding them by an other way, than what he knows already; and then if he is Master of any more commodious and expeditious Artificial Corrections, and Specifick Medicines than are commonly known. He may employ them fuccessfully, to his Patient's Advantage and his own Honour: Whereas Infolent Ignorant Quacks, and Blind Empiricks, whose utmost Art consists in Bleeding, Purging, Vomiting and Sweating, is only obliged to Blind Chance if any of his Attempts succeed, because he is as perfect a Stranger to the Operations of Nature, as he is to the Liberal Arts, or the Laws of Modesty. No Science, in the Republick of Learning, is more beneficial to Mankind, than the Noble Healing Faculty, and yet none is so horribly and shamelesly Invaded by Ignorant Pretenders, and therefore I will thus conclude ;

Olim erat in pretio Divina Scientia, Culta Regibus, à Summis Nobilitata Viris: Nunc dejecta jacet variisque erroribus acta Hactenus, Heu! vulgo præda petita manet, Quæque Dei donum dicta est, Cacodæmonis ausu Sordet. & in questu pro Meretrice sedet. Dum sese Medicum fingit Myropola Superbus, Clamosus Stentor, Rasor, Agyrta fori : Dumque etiam è ludo quivis Bacularius, & qui Grammaticus Pueris virgea Sceptra vibrat. Quin Mysta ipse Sacer, mandato Munere fungi Oblitus, Medicum Julcat avarus agrum;

Pellere carminibus Circes aut murmure morbos,

Dum studet & quævis pharmaca miscet Anus,

Qualia jam sacris Hecates anus invida furnis

Pharmaca decoxit, Sesquisenexque Charon;

Dum quoque desertor, nuper quam exercuit, artis

Omnis sit Medicus, nomen & inde crepat

Sordidus hoc Sutor, sætus hoc Pellio, Pistor

Hircosus, Sartor hoc Scabiosus agit.

Et mihi (si centum linguæ esent oraque centum)

Quos omnes nunquam dinumerare queo.

to the vectors. Operations of Nature, and by ferring her when the wants Affilmer, will be able to discover the Specificand Mericus of the peccant Metter by her Endeavours, and trace her so emostly that the half-knowled capable of Entruding them by an other way, that where the knows arready, and the is the second or commodures the and expected as Artificial Corrections, and operated Madicines than and expected through the may employ them successfully, to his exicut's Advantage and his own florour; Whereas Infolent by normal Queets, and wind Empirical, whole utmost site coming in the Bisechus, Parging, Parging, Memirit, and Specialty, is only obliged to slind Character any of his Atlenting succeed, because he is as partied a Stran-

beneficial to Mankind, than the Noble Fleating Ficulty, and yet node is in borribly and themselefly Inveded by Ignorant Pretenders,

of Varued he is the street date, or the

gence, and carefully of the Operations of Nature, with the Symptoms and Eccritical and avours, in all than Perfors as Recover meetry by her Attalance; for ly that means he would foon underliand what a Paroxilus in and and it by Experience to be the molt of ain way of Cure, to and Nature in her led the Paroxilus, in order to expert the Method before Maiter, and indicate, of administracy Comits, Play to Swears and way unleafonable Phielestonics comploy Contraction, Alforder transference, and underlined by promote Natural breathing Swears, or or others to and not the beneficial Indignosis of our Internal Medication in the symmonistrace.

and therefore I will three conclude;

Olim and in pretice Divine Sciencia, Calta

Regibus, a Summis Nobilitata Viris;

Nant defeda faret variil que erroribus alla

Hafteus, Hen! valgo præda petita manet,

Quaque Dei donam dista eft, Caccotximonis aufa

Sordet, Sin questa pro Nicretrice feder,

com fele desdreva finger divropola facertus

get to the Operation

Durque estata e lada que en Bacularios. S' qui
Conneccions Puero en gen Becorra vibrata.
Quita A va i ple Sacer, mandato pinnere rengi
Oblitas. Attelican falco avarus avezas

ERRATA.

BOOK I.

PAG. 2. lin. 26 & 27. for the following Chapter, read The Third Chapter. p. 5. l. 17. f. Incision, r. Incision Knife: p. 7. l. 18. r. Arteriæ. p. 9. l. 16. r. Carotin. p. 11. l. 31. r. Guillemeau. p. 13. l. 10. Sequent, f. Selingen, r. Solingen. p. 18. l. 25. r. Hervorden. p. 18. l. 59. r. Soyst. p. 20. l. 42. dele as may be seen in the following Figure. p. 21. l. 11. f. Cuti, r. Luti. p. 24. l. 26. Seq. f. Nutritus, r. Nutritius. p. 27. l. 24. r. Fibula. ibid. l. 31. r. Hypericonis. p. 28. l. 4 r. Sarcoma. ibid. l. 12. r. Hypericonis. p. 28. l. 4 r. Sarcoma. ibid. l. 12. r. Hypericonis. p. 28. l. 4 r. Sarcoma. ibid. l. 12. r. Hypericonis. p. 28. l. 28. dele Chirurgeon. p. 46. l. 10. r. Parotidum. ibid. l. 27. r. Annutaris. Erysipelas. p. 45. l. 28. dele Chirurgeon. p. 46. l. 10. r. Parotidum. ibid. l. 27. r. Annutaris. ibid. l. 35. r. Cartilago Annutaris. p. 50. l. 36. r. Decotto. ibid. l. 46. r. Anethin. p. 51. l. 13. dele Mr. p. 54. l. 37. r. Ramuli. p. 59. l. 23. r. grj. p. 63. l. 12. r. Mucilago. p. 64. l. 10. r. the Humours will run one in another. p. 65. l. 11. Sequ. f. Uvæa, r. Uvæa, p. 66. l. 19. f. and, r. or. ibld. l. 22. r. Schmaltius. p. 72. r. Ganglion. p. 73. l. 2. r. dissoluta. p. 74. l. 6. r. the Tunia. p. 82. l. 19. r. Buxi. p. 83. l. 19. r. pisi. p. 86. l. 9. r. Aqua Serpiginis. p. 88. l. 36. r. viis. p. 89. l. 26. S. seq. f. Scrophulus, r. Scrophula, vel Scrophulæ. p. 91. l. 10 and 11. r. Scrophulous Tumour. p. 93. l. 14. r. dissoluti. ibid. l. 28. r. Sulphuris. p. 95. r. Ganglia. ibid. l. 23. r. Motrica. p. 99. l. 5. r. Ganglia. p. 101. l. 41. r. Cyan.

BOOK II.

Page 113. l. 38. r. Osteocolli. p. 116. l. 14. r. libij. p. 119. l. 39. r. Symphyt. p. 123: l. 17. r. Schirrus. ibid. l. 24. r. Lympha. p. 154. l. 1. r. Nutritius. p. 162. l. 36. r. Albuginea. p. 163. l. 42. f. internal, r. External. p. 170. l. 15. r. Detersives, p. 176. l. 11. r. Balfam. fulphur. succinat. p. 185. l. 10. f. Vrins, 1. Voins. p. 189. l. 39. dele f. a. p. 197. l. 10. r. Gialappa.

BOOK III.

Page 182. l. 46. r. Balneum Marie. p. 187. l. 5. r. Juncken. p. 192. l. 18. r. Rute, Cicute. p. 193. l. 21. r. Ptergium & Panaritium. p. 194. l. 40. r. Chelidon. p. 197. l. 40. r. Amygdalor. ibid. 44. f. Sicce, r. Ol Spice. p. 201. l. 33. f. evj, r. grvj. p. 215. l. 12. f. Sacrocementus, r. Gastrocemius. p. 300. l. 26. dele French Chirurgeon. p. 302. l. 30. r. Venæ jugularit. p. 305. l. 33. f. Tibialis and Garstemnemius, r. Biceps & Brachieus, and in the inside of the Leg between the Musculus Tibiæus & Gastrocemius, three or four Fingers broad below the Knee. p. 307. l. 13. f. a, r. are.

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Page 320. l. 46. f. Impulses, r. Impulsor. p. 329. l. 19. f. Intention, r. Intenseness. ibid. 1. 39. r. Conservation. p. 332. l. 17. f. Exercise, r. Eccrises. p. 333. l. 19. f. too, r. so.

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DAG 2. His 26 day, for the following Chifter, read The Third Chicars, p. 5. 1 (p. 1) to the color, p. 10 in the color, p. 11. I share the color, p. 12. I share the color, p. 11. I share the color, p. 12. I share the color, p. 13. I share the color, p. 13. I share the color, p. 25. I share the p. 25. I share the p. 25. I share the color, p. 25. I share the color of the color, p. 25. I share the color of the color, p. 25. I share the color of the color, p. 25. I share the color of th

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