A treatise of wounds.

Contributors

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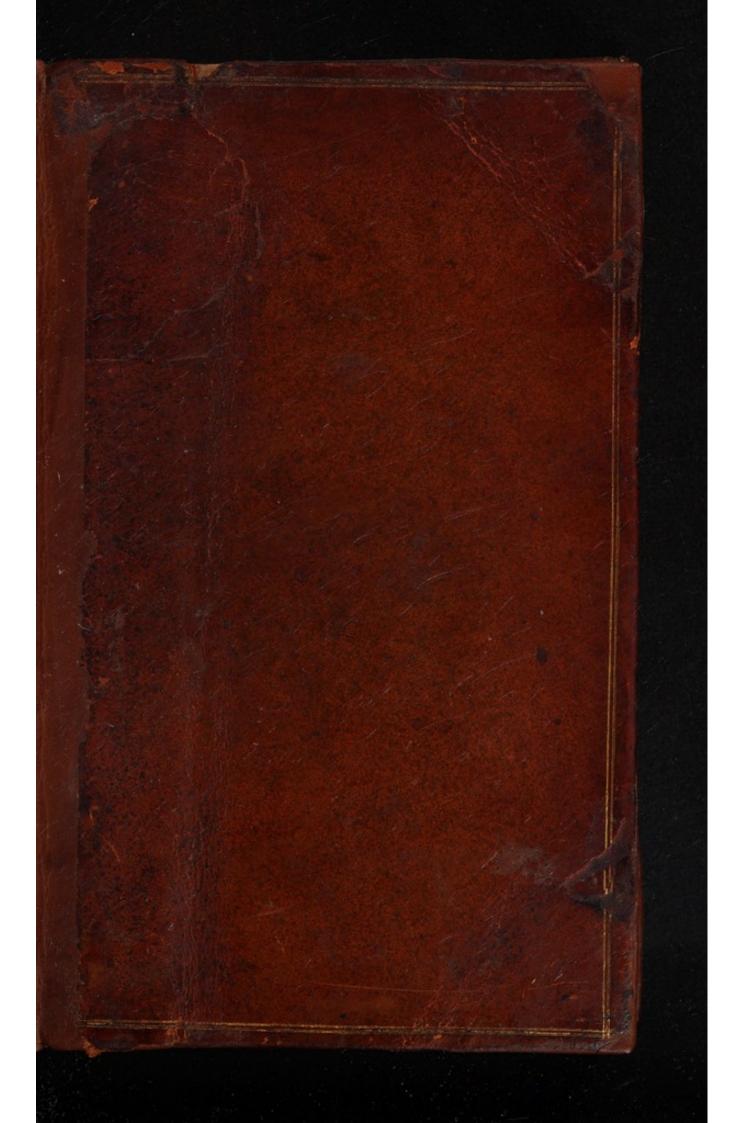
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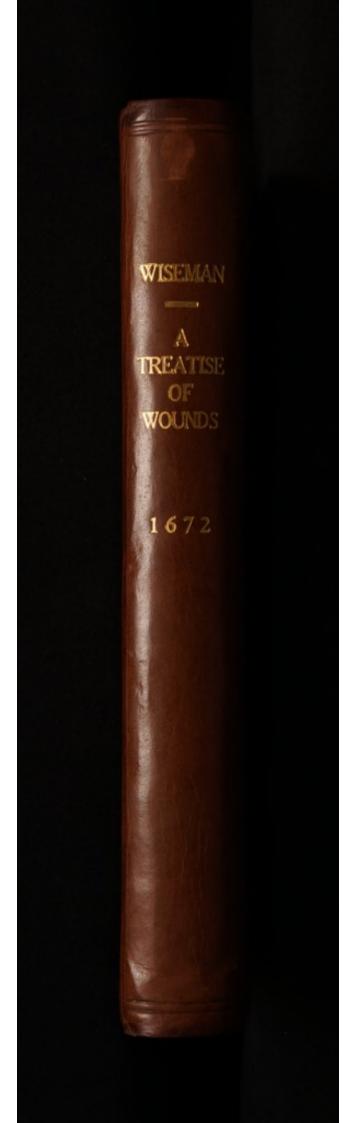
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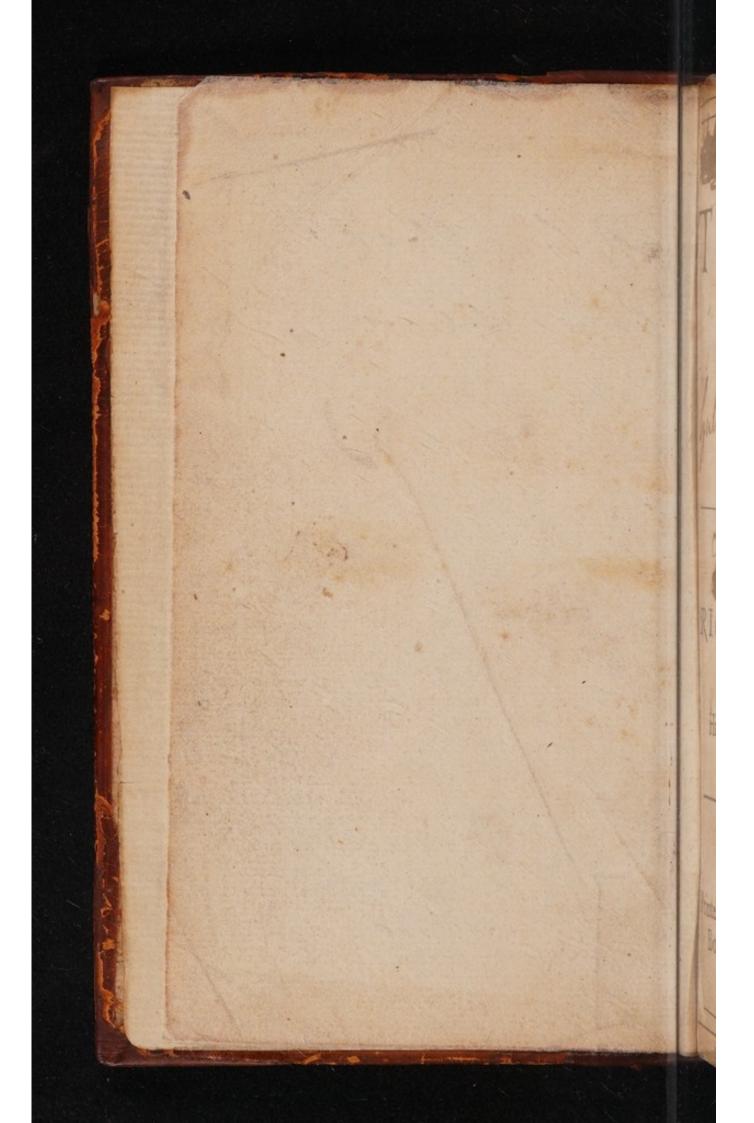


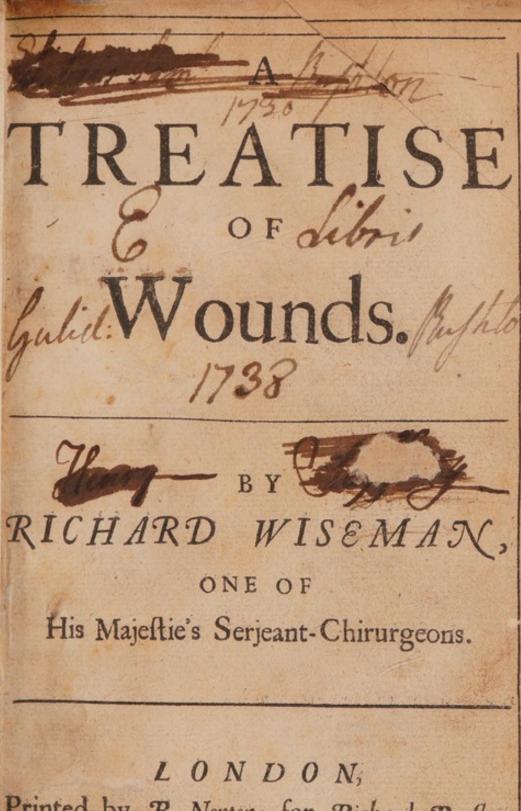




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Printed by R. Norton, for Richard Royston,
Bookseller to His most Sacred MAJESTY, MDCLXXII.

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Reader,

Aving spent betwixt Thirty and Forty years in a plentiful exercise of my profession, and that in different Countries and Places, where have been ever witness of the variety of hods in Chirurgery, I think it is no great vanity for me by this time, to pretend to Comething of experience in the Faculty: Which how difficultly it is attained, I not nly can testisie by my own frequent misadventures in this Imployment, but also do apeal to all others that have undertaken the art. Vita brevis, Ars longa, Experimenum fallax, Judicium difficile, said the reat Father both of Physick and Chirurgery, f which it is true, that the former bath vore of uncertainty, because the diseases re hidden as well as their causes, and little feither lyeth open to the Eye: Tet ours also meets

meets with many great difficulties, and very dubious cases, such as will sometimes puzzle an old Chirurgeon, but a young one would be quite lost in, without the assistance of an ex-This is the Reason why I think pert Guide. all men, that have arrived to any thing of Knowledge or Experience, are obliged by the general debt they owe to mankind, to leave behind them such Monuments of it as may be useful to posterity. Thus our Art at first grew, when Apollo's Temple at Delphos received in Tables the Histories of particular cures confecrated by the Votaries, and whem Fathers bred up their Children in their own profession, faithfully delivering to them such Rules and Maxims, as their frequent observations had both suggested and confirmed: Insomuch that the Art became Hereditary and propagated in families. And it is thee opinion of some learned men, that the so much admired Volume, that goes under the name of Hippocrates, was the product of Such a succession of Communications, there being no les than seven of that Race that were in their several generations eminen that way: The world is since grown biggen and the Art it Self much inlarged, by the great accession both of Diseases and Reme dies; insomuch that Medicine, which beretofore was the work of one man, is no

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fplit into three parts, the Physician, Chirurgeon, and Apothecary; each finding work enough for the whole man. Tet with all this encrease of Knowledge we do but encrease sorrow, and after whole Ages spent in Chirurgical and Medical Disquisitions, we find little advance towards the certainty of Cure, or the commanding of help in the necessities of nature: A great Reason of which I take to be the excess of Imployment, or (which is worse) disingenuity in great Practitioners, who have not often been free in communicating their Observations to the world, but have rather left that task to Sedentary men, who having Chairs in Universities, have more indulg'd themselves in the speculation of the Art, than in a diligent attendance to matter of fact; who having reduced the Art into method, have spokenrather pursuantly to their own Rules, than agreeably to our Experience: Hence it is thought, that from Galen's days, who first drew Physick into a strict Body, we have found little Augmentation of Knowledge, till some bold adventurers in these latter Ages have made some fortunate Essays at farther. discoveries.

For my own part, I shall not pretend to new Inventions, only what I have, I do here A 4 bring

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bring as my Mite to the Treasury of other mens Learning; affecting more the praise of fidelity and easiness of being understood, than of having enriched my Faculty with any far-fetcht or novel additions: Our Art is rich enough already in that kind, Nature having plentifully supplied us with a Materia Medica in every field; nor need we any other Instructions than in the use of that Store we find ready provided for us. In this such men as have spent their whole Time and Parts in a perpetual Practice, are the best. Instructors, of which, whether I deserve to be reckoned for one, the ensuing Treatise must tell you: It being an Essay to a further work; which if this succeeds, may bereafter be offered to the use of the world. Why I have begun with a Treatife of Wounds, will easily be guessed by those who know me to have spent so much of my Time in Armies and Navies, in both which it was my chief business. during my abode in that Imployment, I have observed many great Errors committed in dreffings, very much to the damage, and often to the destruction of the Patient; to which notwithstanding custome and frequency of example have given countenance. This very consideration did more excite me, when I once understood his Majesties design

of a Navy Royal, where many young Chirurgeons being employed, and my Sickness of Body and my present relation to his Majesty render'd me not so fit for attendance there, as both my Genius and my desire of serving his Majesty makes me inclinable; I thought it my duty to affift, at least with such directions as my Penwill afford, faithfully delivering those methods of Cures, which I my self have practised with success, and by giving early notice of such Errors as have been observed by me, either in my own, or other mens practice, arming them as well as I could against all misfortunes in the Faculty. I have therefore chosen the method that seemed to me the most easie and facil, and most accommodited to practice, still confirming Rules by Examples, and thereby illustrating what ever might else seem obscure. Not that I was ignorant bow hard a task I have undertaken to speak of things of this nature, whilst so many both Chirurgeons and Patients who are therein concerned, are yet alive; which is the reason why in difficult cases, I have chosen to give so few Instances, as making use only of such as I was either concerned in my self alone, or such as might give least offence to others, which I have avoided as carefully as I could: For which cause I have made choice of such ob-Gerva-

fervations as may be rather for the Reader's instruction than my own credit, mixing as well my unprosperous attempts as my successful administrations.

The Lecture of Fractures was first written and read in the Chirurgeons and Barbers-Hall, and had been pursued by the rest, had not the Fire prevented us, and that occasion given a stop to a laudable custome. The Treatise of Gun-shot was afterwards compiled, and that of Simple wounds last, one thing begetting another, but when they were done, I put them into that order which did seem most agreeable to the design I now have in publishing them. I mention this here, that if any thing happen to be preposterous in the several Treatises, your charity may be furnished with an excuse for it.

It is true, that this discourses (the former part of that of Simple wounds excepted) were done long since for the use already mentioned, though since pollish t and fill'd up; Several other little things, as of Tumors, Fistula's, and Lues venerea (all which ly rough cast) and may come to light, if the success of this small Tract encourage me: I have taken pains in one part of Tumors, which my relation to his Majesties service hath engaged me, viz. the Kings-Evil; of

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which I wonder so little bath been written by the Chirurgeons of the English and French Courts, both which Kings do so publickly exercise themselves in the Cure of it: And though so many thousands of people pass through the hands of the Chirurgeons to be judg'd of, and presented to their Princes, yet excepting that of Laurentius, and an imperfect piece or two of our Countrey-men, there is nothing appeares in print concerning it. I therefore thought it worth my pains to write what I have observed in that disease, hoping withal to give so much credit to our Society in this Nation, as to let the world know, we do not all spend our time in talking in Coffee-houses, and drolling over the Accidents that befal one another in our profession; but that some of us at least make it our business to Improve our Faculty and to give Strangers, pretenders to great things in Chirurgery, that come over to us (and are so Wellcome to our Gentry, only upon the account of their being Strangers) occasion of understanding, that they may whilst they are here, traffick for skill as well as money, and carry that back with them, which may give the world some opinion of the Knowledge and Experience of our English Artists, as well as of the liberality of their Patients.

Reader,

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CHAP.

Tears



CHAP. I.

Of Wounds in General.

A Wound is a Solution of continuity in any A Wound part of the Body, Suddenly made by defined. any thing that Cuts or Tears, with a division of the Skin.

THIS definition differs much from what is usually delivered by Authors, and it is fit it should, for they generally defining a Wound by a folution in parte molli, do thereby exclude a Cut made into a Bone; as that into the Cranium by a Pole-Axe, &c. which why it should not be called a Wound I know not? Secondly, I say it is made by any thing that Cuts or Tears; other Authors define it to be made by an external Instrument, &c. How then do they call that fracturam cum vulnere, a fracture with a Wound, where the Bone from within makes the Wound, and thrusts it self quite through the flesh? Sennertus adds to his Definition, that it be done à re secante & acutà; yet he reckons those for Wounds

Wounds that are made by Bullets, although it be

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I do therefore think it fit to make my definition more comprehensive, and to take in whatsoever makes a fudden folution of continuity, at least immediately and by it felf, on what part foever it lighteth; fo a Cut into a Bone is a Wound, tearing the Flesh, Nerve, Sinew, Tendon or Cartilage, by Bullet, Stone, Splinter, &c. is a Wound; only I add this restriction, that the Skin must be likewise divided: By which last words I exclude fractures that come not through the skin and contusions, if the exterior parts be continuous. But by the word Skin, I understand not only the external cutis, but also the Inward membranes of the Gullet, Ventricle, Guts, Bladder, Urethra, Womb, all which are capable of Wounds from sharp Instruments, whether fwallowed or thrust into them.

Differences of Wounds.

A Wound thus defined admits of many differences, of which I know none that can be properly called effential. Great and small, deep and shallow, wide and narrow, streight and crooked, round and Angular, are but Accidental differences. Distinctions taken from the Weapons whether sharp or blunt; Sword, Rapier or Bullet; Cut, prick or Tearing, are likewise Accidental: Those that look most like effential differences are they which are taken from the subject in which the Wound (which is it self but an Accident) inhereth, viz. from the Flesh, Skin, Brain, Nerve, Tendon, Artery, Vein, Gristle, Bone, &c. All which being the feveral subjects of Wounds may well be allowed to specifie them, and so much the rather, because from the nature of them we raife our greatest Indications

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cations of altering the method of Cure. To this head may also be referred the division of them into Simple or Compound.

Wounds are in themselves so visible, that they Signs and need no general marks to be known by. But the pe- prognoculiar affections of the particular parts hurt, and flicks. the methods of discovering what Inward part is Wounded, by observation made of the symptomes that happen, are fully handled in the Treatise of Gun-shot-wounds, to which I refer you: And not they only, but the prognosticks also are there delivered, in weh a Chirurgeon ought to be well versed, lest through ignorance of them he undertake the Cure of Wounds that are mortal. I therefore have translated them to that Treatise, because the disficulty of Knowing them in cases of Gun-shot, is much greater than in those of other Weapons. The greater symptoms likewise, as Gangrena, Pa-Sympralysis, Spasmus, are there distinctly treated of, toms. as being more frequent and important in Gun-shotwounds than elsewhere; Hemorrhagia are spoken of in this present Treatise.

As to Intentions of Cure, the Wound being a for Intentions Intion of continuity doth require to be made One of Cure. again. Unity being the perfection of whatfoever hath a being. To effect this, is the work of Nature and Art: both must mutually joyn their helping hands, and unless both the vital faculties and nourishment of the part do assist the Art of the Chirurgeon, it will be lost labour, here must be a joynt meeting and agreement of all in one.

In Simple Wounds the Chirurgeon is to afford his affistance Five manner of ways, the omitting

Of Wounds in General.

of any of which will render him negligent or igno-

rant in his Trade.

The first is in careful and diligent taking away all such extraneous Bodies, as by their interposition may hinder the true Agolutination of the disjoyned parts, whether they be concrete Bloud, Hair, Sand, Dust, pieces of Bones, Cartilages, or pieces of the Weapons, Rags, &c.

The second is performed in bringing the Lips of the

Wound even together which were separated.

The third is in retaining the Lips so brought together, that they may by Consolidation be restored to their former Figure.

The fourth is in conserving the Temperament and

Natural Heat of the part in order to Unition.

The fifth is to prevent ill Accidents, and to correct 5. such as have already seized on the part.

What is required Contufed Wounds.

I.

Thus much is required of us if the Wound be only Simple; but if it be a Compound Wound with loss pound and of substance, or Contusion, then he hath somewhat more to do: as where there is loss of substance there he must assist Nature with his farcotics, for regaining what is lost: And where there is Contution, there he must promove the turning what is Contused into pus or Matter, which must be performed before there can possibly be Re-union.

As long as there is Alienum quid, some strange The First Body or different substance to keep off the Unition, you must not hope to make any Cure of a Wound; therefore if any such be to be drawn forth, before neous Bo- you attempt it, consider seriously; first whether it can be done or no; fecondly, whether fafely.

For first, somerimes the Weapon sticketh so fast,

Intention intaking out Extradies.

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that by no Art it can be extracted; then it is of necessity to be left to Nature, who this way sometimes worketh miracles: Mercatus in Lib. Institut. Chirurg. says, sometimes pieces of Weapons sticking so fast in the Inward parts have lain hid under the cicatrized Wound, and have a long time after upon the Apostemation of the part come forth of themselves.

Secondly, You are to consider whether you may with safety pluck out the Weapon or no; some will live a day with the Weapon in their Bodies, which would expire upon the moment of extraction; but if your judgment suggest to you that the Patient is recoverable, make haste out with it before the part be instanced, or else you must stay until digestion.

If the Weapon have not pierced deep, and Which through great Vessels and Nervous places : If the way the part opposite be full of Veins, Arteries and Nerves, Weapon is or have a Bone in it over against the Wound; If to be there be no great fear of Laceration, pull it out the drawn out. fame way it went in; for the effecting of which, our Masters have left us variety of Instruments, the figure and usage whereof you may see in Scultetus. But if the point of the Weapon have pierced above the half way, and there be no Bones nor notable Vessels to hinder you, (here is use of your Anatomy, and exact Knowledge of the parts) either thrust the Weapon through, or make way for it by incision on the contrary side; but beware the Weapon be not too big, lest you do make two large Wounds for one.

If the Weapon stick in the Bone, move it up and Weapon down to loosen its point, and then pluck it out; stuck in a but in case it will not move, cut away the Bone before you extract it.

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Weapon fluck between the Joynts.

If a Weapon be fastned betwixt two joynts, make an extension of the parts both ways, as it is the manner in Fractures and Diflocations, that fo the Tendons and Ligaments being Elonged, the Weapon may with more ease come out; but do this with moderation, lest you break some notable Veffels, and a flux of Bloud or some ill Accident befall you as you extract it. It will be necessary in this work that you consider the Position the part was in when the Wound was Inflicted. Gelner hath a story in his Observ. de Chirurgia dignitate & prastantia, of a Chirurgeon, who when he could by no means get forth an Arrow, asked the wounded Patient in what Figure of his Body he received the Wound, understanding it was done on Horseback, he placed him in a riding posture, and immediately drew out the Weapon.

The Weapon thus drawn out, cleanse it from Rags or ought else, and permit the Wound to bleed accordingly, as you in your judgment shall think sit, you having respect to the constitution and habit of Body, that what is in the small Veins cut as a steel generation of much Matter. The Bleeding stay'd, if there be Hair growing about the Wound, shave it off, then wipe away the clotted bloud with a Spunge dipt in Red-wine, Oxycrate or Water. But it it stick in the Wound deep, be not too busie with your armed Probe, for thereby you may stir up a new bleeding; whereas this concreted, keeps the Wound warm, and defends it from the outward Air, and by digestion

Nature will thrust it forth.

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CHAP. II.

The Second Intention is performed by The Second In-bringing the Lips of the Wound exactly tention. together.

THIS Intention is delivered in a few words, but they are as a Law to be observed, for Unition is without that reduction of the Lips a flow and de- to be made. formed healing follows. Nature hath nothing to do here in bringing the Lips together, that is the fole work of the Chirurgeon, who must not lay a Pledgit, or croud a Dossel of Lint or Tent into a little Wound. No, that is the way to keep the Wound open, and make it painful, whereby defluxions are stirr'd up, the Temperament of the part weakned, and the Cure prolonged; contrary to the Intention of all who have writ of them, and to the practice of our Knowing Chirurgeons here: But amongst the pretenders to that Art, we often meet with fuch work; particularly in a young man Wounded near Highgate in the Back, flanting un-Observader the right Scapula, another wound on the Back, tion conand another through the upper part of the other Cerning Dossils in Shoulder, with a long Gash over the forehead, Simple and with other wounds, some whereof not conside- Wounds, rable:

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rable: The next day I was carried thither to Dress these Wounds, I found them all distended with Tents and Dossils of Lint, disposed to inflame and fwell; the Patient exceeding full of pain: after I had taken out these Extraneous Bodies, my endeavour was to Drefs them fo, as I might encline their up-heaved Lips to return to their Natural icite; to which purpole I fomented them with Milk, and drest them with Pledgits spread with my digestive of Terebinth. cum vitel. ovi, and Embrocated them with Ol. Ros. and by Empl. e Bolo, and Bandage with gentle compression I drest him up, and afterwards here in Town Cured him by Sarcotics and Epulotics, as in Compound Wounds, a longer work which at first ought to have been by Agglutination: Parts separated and disjoyned are to be brought together gently and equally, that they may touch one another, and fo be prepared for Unition.

First Gently.

This must be done first gently sensim & sensim, as Fallopius hath it, by little and little, not hastily at one pluck: If the parts be equally foft bring them equally together: if the one foft, the other hard, and not to be moved, but with difficulty, bring the fost part to the stubborn. If the part be grown stiff with cold, as if they had been left in the fields all night, which after a Battel hath often hapned, (and particularly to a merry fellow, a common Souldier, that used to wear an Iron Skull under a Cap, and from thence was call'd by a Nick-name; his wounds were large, and the Lips hardened with the cold, and it was well for him his bleeding being thereby stay'd) in this case you are with Milk or warm-Water, and Oyle to Supple them by Fomentation or Embrocation, till you perceive the Lips

Lips made soft enough for your purpose, before

you endeavour Re-union.

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Secondly Equally, that the parts cut afunder may answer one another, as well in profundo, as in Superficie, the Top as the Bottom, Brim to Brim; and, if possible, underneath Vessel to Ves-Secondly, sel, that Nature may be in a capacity of doing its Equally. own work, and by vertue of its Balfam, Reunite, Agglutinate, Consolidate, and Heal the Wounds: In all which Intentions she is the Agent, and the Chirurgeon only the Affistant, which Affistence, that it may be more effectually given, we must go on to the Third.

The Third Intention is Deligation, or Retaining The Third the parts so joyned together. Intention

retaining the parts

For the effecting of this, our famous Masters united. have left us two principal means, fascias & suturas, Rowling and Stitching; to which some, nay most of them added sibulas, or Clasps: But I will not put you upon that. If the Wound be small in parte molliore, in a fleshy part in the Limbs, and according to the length of the Fibres and Member; if the Wound be Simple, and in a found Body, you may perform the whole Cure only by Bandage, for Bandage. here Nature will truly act her part by application of Bloud and nourishment to both sides indifferently, and finish the Coalitus without your further affistance: this is that which gives such credit to the Sympathetick Powder. In the application of this, it becomes every Chirurgeon to be much experienced, in respect of the unspeakable commodities which the whole Art receiveth by them.

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Their Ule.

By them not only are parts dextroully accommodated for Union, but fuch also as would unnaturally grow together kept afunder, in Burnings, Scaldings, &c. The Finger or Ham would many times grow together, the Chin would grow to the Breast, the Arms to the sides, were they not this way hindred. By them are fluxes averted, and the delapse of humors into the inferior parts forbidden; and being already lodged they are prest out. By these are good Juice wisely forced into parts Emaciated, as if the Right Arm pine away, Rowl up the Left from the hand to the arm-pit, that the bloud being prest out into the Vena Cava, or rather hindred to flow in fo fast by the Artery, may with more eagerness flow into the other side where it was wanting: By these we see great fluxes of bloud, large Hemorrhages every day stayed: By them are ill shaped Ulcers brought into better figures, made more apt to be Cured: By them are the force of your application helpt and furthered, they keeping them close to their proper places, where your care hath bestowed them: By them is the true natural form and beauty of the part commonly preferved.

Threeforts al Use.

Three especial forts of Fasciation or Rouling of Especi- pertaining to our present work have the Worthies of our Profession commended to posterity; the first they term Incarnatrix or Agglutinatrix, the Incarnative or Agglutinative: The fecond Retentrix, or Retentive: The third Expultrix, or Expullive.

I. Inca: native.

The Incarnative is that which brings the Lips of the Wound together, and conserveth them in their right Figure; it must be more strict than the Retentive. tentive, and more loose than the Expulsive, and is the most useful in simple, fresh, and yet bleeding wounds; The manner of performing it is thus,

Have in readiness a Rouler of such matter, length and breadth as I shall anon shew you, Roule it up at both ends firmly to the middle; then lay the middle part of the Rouler on that part which is opposite, to prevent pain and Inflammation, and to cherish the heat of the part, you are, after you have made a turn upon the wound with both ends of the Roulers, to go up with the one and, down with the other, and take fo many turns about the part, according as may be requisite, for the restraining the flux of bloud, or according to the feafon of the year, to defend from Cold, and yet not keep the wound too hot, for that may weaken the part; you must also be careful that your Bandage be not too hard fo as to intercept the Spirits, your Bandage running downwards will prefs out the matter from the affected part, and by paffing upward hinder the Influx of humours and Inflammation.

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The Fascia retentrix, is used to keep on close 2 Reten-Applications about the wound, for cure of the tive. Patient; and these are they that are only in use, in wounds of the Head: there must be a moderation of this Bandage.

Fascia Expulsiva is performed by a Rouler of 3 Expulone head, the special use of it is to expell matter sive. out of Fistula's, or the Sinuous Ulcers, and also to keep out and stay the descent of Humours, and to expel such as have already seated themselves upon the part wounded, or otherwise; I do it in the manner following.

Begin

Begin in the found part, beneath the feat of the Humours, and then Rowl hard at first, and by degrees, as you come nearer the mouth of the Wound gentler and gentler; if you will press out the Matter contained in the Cavity about the Ulcer, Rowl loosely a turn or two, then harder, and yet a little streighter, the higher you go to hinder the descent of Humours, but not too hard for fear of harm, Terminus sit bona laborantis tolerantia,

How hard Celsus: Let it be made with such moderation, as

to bind. the Patient may well endure.

Hippocrates de offic. Medica; Vinculorum aliud per se (saith he) Remedio est, aliud iis qua Remedio sunt subservit, amongst Ligatures, some of themselves are Remedies, others are servants to Remedies; and true it is in this, for the Incarnative, and expulsive, are in themselves as you may perceive Remedies, and the Retentrix the common servant to them all.

4 Other Bandages added by Eallopiss.

3.

To this Fallopius in Tract. de vulneribus in Genere, adds Four more, viz. Fasciam disjunctionis; Secondly, Fasciam directionis; Thirdly, Fasciam facientem Apostema; Fourthly, Fasciam prohibentem Apostema.

Fascia disjunctionis. by Rowling keepeth parts from joyning together, as the fingers when they

are bared of the Cutis.

Fascia directionis, is that which assisteth in making a crooked part straight, or bendeth a part unna-

turally straight to his proper figure.

Fascia faciens Apostema, is that which will procure an Apostem, by summoning the matter up into one Body, which might perhaps dangerously flow into many parts, and those more principal.

Fascia

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Fascia prohibens Apostema, is that which forbiddeth the collection of Matter, and by consequent hindereth the Generation of an Aposteme.

For the matter of your Rowlers, they must be Of what fine and even Cloath, white, clean and gentle, but Roulers of strong Linnen without Hem, Seam or Threads made.

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Let the length be fuch as the Member affected Their and the multitude of Circumvolutions require, Leng h. longer in winter than in Summer: Hieme (faith Celsus,) sapius fascia circumire debet, Astate quoties necesse est, Rowl on, on, and again in the Winter, in the Summer no oftner than needs must; his ground I suppose he had from our great Maiter, Sect. 5. Aphor. 20. Frigidum ulceribus mordax, cutem obdurat, dolorem insuppurabilem facit; Cold nippeth a Wound, makes the Skin hard, and causeth pain, which cannot be digested for the breadth of the Rowler. Petr. Pigreus lib. de Their vulneribus, is most punctual; let them be for the Breadth. Shoulder, faith he, of fix Inches broad, for the Thighs of five Inches, for the Legs of four Inches, for the Arm of three Inches, for the Fingers and Toes of one Inch broad; but this your judgment will teach you to Alter according to the conformation, shape, and positure of parts.

Fasten not your Rowler by tying a knot, nor yet How to be sew it upon the wound, or where you cannot easily sastned. come at it again, lest you hurt your Patient; quickness and neatness distinguisheth the Workman from the ignorant and unskilful; as the subject is the more noble you work on, so strive to perform your office more excellently, intending not only your profit but decency in the dispatch, that you may please the eye both in the time of, and when

you

you have done your work. Thus shall you gain credit to your felf, and endear your Patient to submit the more readily to your Rules, which is not the least part of the cure.

Sutures 3 Sorts.

Incarna-

Restringent or Glovers Stitch. The next thing that offers it felf for keeping the Lips of the wound together are Sutures, and they are of three Sorts; the Incarnative, the Restringent, and the third Conserver, the first is that which is in most use amongst us, and is by making so many stitches at a distance.

The Second is the Glovers stitch, and much in use among the Spaniards, they stitch almost all wounds by it; in the Forehead and Face I have seen them bring the wound very close, and the third day they commonly cut the knot off, and draw the Thread out, then with dry stitches keep them so brought together, and so in two or three dayes more the wound is cured.

Conserver.

The Third Stitch is in great wounds to hold them forceably together; it is performed as in Hair-

lips.

There are Four forts of Stitches, mentioned by the Ancients, for the wounds of the Belly, whereof I shall take notice only of one, which I have made use of my self, in the stitching of those wounds; the manner whereof is thus,

You are to take up the Peritoneum on one side, and leave it on the other, and then take it up on the other side, and leave it on this; This is thus made, that the Peritoneum which is a dry Body may be united with the Musculous slesh, otherwise only the sleshy parts would unite, and the Peritoneum not, through which a Hernia succeeds, whereby you put the Patient to the wearing a Truss

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the rest of his Life, and to other trouble. The Thread, you ought to use for this purpose, is to be a white, strong and round Thread, proportionable to the Needle, and both according to the wound.

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You will remember to cleanse the wound of its clotted bloud, if you can; but however go on with your work, that bloud will find its paffage our.

In great fluxes of bloud the Glovers stitch is best, be sure in your stitching, you bring the Artery and Vein to his wounded fellow, fo shall you the likelyer fecure your felf, and make the work more shape-like.

In the Incarnative you are to consider the wound. If the wound be but the length of a fingers breadth or a little more, 'tis not worth the stitching, your Medicaments and Bandage will keep the lips of the wound together, and quickly heal.

If the wound be of two fingers breadth, make The dione stitch in the middle, if three fingers breadth stance of two stitches, if four fingers breadth three stitches. Stitches. and so go on making a stitch less than the wound is in number of the fingers, ut semper numerus digitorum uno superet numerum punctorum, so as the number of the fingers breadth always exceed by one the number of the Stitches; sometimes in declining, parts we make our ftitches at a little more distance.

The time of taking out these Stitches is, when Time of parts are agglutinated, which is fooner or later taking out according to the habit of Body or feafon of the thefe year; commonly in great Transvers wounds eight Stitches days is required, in less wounds not so deep three or four days, in the Face the next dreffing, left the Stitches make so many Scars. But in this work you

must

Caution.

Dry Stitches.

must use your Judgment, for sometimes the wound feems to be agglutinated, while the Lips are held together by Suture, which after the Stitches are cut out is not fo exactly Cicatrized, but that you might have done better to have left the Stitches a day longer; but thereto the dry Stitches will help you, which is the next way of keeping these wounds together; they are made with little bits of strong linnen Cloath, Triangular or Quadrangular, or of fuch figure as may ferve your purpofe; these are most in use in the Face to avoid Stitching, and are of use in other parts to preserve the Stitches; These are commonly spread with Sang dracon. Thuris, Aloes, farina tritice, Gum-Tragacanth, a part. ag. mixt with the white of an Egg, Gypsum will will do as much being so mixt; they are to be applyed at fuch distance as they may be most strong to perform what they are designed for, they will dry presently if you apply any thing to warm them, then draw the lips together as you do in Sutures.

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CHAP. III.

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Of the Fourth and Fifth Intention, and of Compound Wounds, &c.

HE Fourth Intention is in the Pre-Fourth In-Serving the Natural Temperament of the Part, so that thereby Agglutination may be obtained, and is divided into Universal and particular Regiment.

THE Fourth Intention is in the preserving Fourth Inthe natural Temperament, that thereby Agreention glutination may be obtained, which Agglutination preserving indeed as I have already hinted, is the work of natural Nature alone, by whose only power all parts woun- Temperaded, disjoyned and broken are Knit and made one ment. again; but in regard there is a certaim Medium which Answers in proportion to a Glew, required in this work, Nature taketh what is next hand, even the nourishment of the Part which is hurt to make it of ; ubi morbus Ibi Remedium is here as an Nature the Oracle, where the disease is there is the Remedy; agglutina. no fooner is the wound made but the Balfame is tor of discovered. Bloud (at lest the serous part of it) Healing.

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is the Glew, which she useth both in curing by the First and Second Intention; the first being sper sym- performed per Symphisin, i.e. a re-union of the part without any Medium, by which word I here mean any Callus or flesh, or other body interposed, for in another sense the Balsam of Nature is the Methe Instrument of Unity, and Knits the parts together. The Second per Syffarcofin, i.e. with a Medium or Interpolition of some flesh or Callous substance, that fills up the space between the Lips of the wound; great care must therefore be taken that the Bloud offend neither neither in quantity or quality, too much bringeth on carnem luxuriantem ac supercrescentem, proud and loose flesh; too little doth defraud the part and affordeth not a competency of matter for the work.

Regiment, I Univerfgl.

If the quality of the Bloud be ill, it cannot produce good flesh, qualis sanguis talis caro, as the bloud is such is the flesh: the means whereby this Intention is performed is a regiment of the Patient, and that is either Universal as to his diet, or particular as to the peculiar management of the part it felf. As to the Universal we are to consider; first, an vietus plenus vulneratis an tenuis, whether a full, or flender diet? This hath been a difpute in former Ages, but I think no man of common fense but knows, that as a full diet is hurtful for those of a full body, and in wounds where there is great Inflammation and like Symptomes; fo when a Body hath been exhaulted through loss of bloud or the like, it is reason that a greater liberty should their man- be allowed, as Broaths, Cullices, Cordials, &c. Withal I conceive there should be consideration had of their manner of Living; some people have so accustomed

Confideration from ner of graing.

accustomed themselves to drinking of strong drink, that without fuch a proportion they cannot live, I could instance it by many stories if it were necessary; but one for all, and from abroad, Ed. Br. an E.B. cured old fervant to a Person of Honour, was bit by a Monkey in the back of his hand: to prevent In-Hammation I forbid him Wine; he next morning complained he had not flept that night, that he was faint and fick, and that his wound was the least of his ailment; that day he continued faint and ill, and the next morning complained again of his want of rest, and that afternoon he swooned, and complained he could not live without Wine, he had good Broaths, Caudles and fuch like, and I believe he did drink some Wine (but he was allowed by his Master a Bottle of a quart every morning for his draught, and was feldom fober) his wound was Crude, and Inflamed; I complied with his defire; he drank again as he pleafed, his fickness went off, his wound digested and he cured. This I have seen often in some of our Dunkirkers at Sea, who drank extraordinarily, and were full of drink in our Sea-fights, I could scarce ever cure them without allowing them Wine, and thereby their Spirits were kept up, and I had the liberty to bleed them as I thought fit.

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It hath been a common faying, a bair of the same Dog, and that Brandy-wine is the common relief to fuch; what then must become of fuch a one after a hard drinking for many months together, if he chance in heat of drink to be wounded, and from that time his Chirurgion condemn him to Ptisan for a week together, nay two daies? will

he not Faint and languish, his wounds become Indigested

digested and Inflamed? you may laugh at my pleading for them, but I hope you will confider I

am a water-drinker the while.

In other things such diet is to be observed as their strength will permit, we do not use to purge in wounds with Cathartics lest by stirring matter it flow to the weak part, but allow Lenitives, as Cassia, Tamarinds, Manna, Sena, Rhubarb. with Sal. Prunel, also Electuaries as Lenitiv, diaprun. fyr. cum Rhubarbaro, also Sol. de cichor. Rol. Broaths wherein hath been boyled Lettuce, Succory, Endive, Sorrel, Purslane, Borage, Bugloss, &c. and bleed according to the strength of Body, and as Symptomes Indicate in a direct line of the same side.

Of Vulnepowders aries.

Another part of the Regiment of wounded persons rary drinks will confift in giving of Vulnerary drinks, of which we find many mentioned by Authors, and the and Electu- Materia Medica very large, witness that great tribe of Vulneraries in Perkinson's Herbal.

The most common Simples with us in England are, Comfrey, Bugle, Ladies Mantle, Agrimony, Sanicle, Pauls betony, Fluellin, Periwinkle, Mugwort, Plantain, Horse-tail, Adders-tongue, Avens, Cinkefoil, Wild Tansie, Vervain, Ground-Ivy, Golden-rod, Herb trinity, Centaury, St. Johnswort, Snakeweed, Knot-grafs, Mouleare, Yarrow, Scordium, Strawberry leaves and roots, Tormentill, Bistort, Valerian, Red roses, &c.

Some of these are made choice of to be boiled in water with white Wine and Honey, of which fort you have a sufficient example in the decoctum

Traumaticum of the Difpensatory.

Their principal use is in wounds of the Thorax

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and Abdomen, though they be of frequent use in all great wounds. Sometimes also if the disease run out to a length we add Guajacum, Sarsa, and Scorbutical Medicines.

There are likewise Powders made of Crabbseyes, Coral, Nutmegg, &c. and Electuaries of the roots and hearbs beaten up with those

Powders.

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The particular Regiment is in preserving the Second natural heat and tone of parts, without which we can Particular. hope for no union. For the better understanding hereof I must put you in mind that there is not any part of our Body admits of a solution of continuity without pain; every scratch in the skin and little cut in the finger is painful, much more wounds in the flesh; This pain stirs up a heat which ferments in the Serous part of the Bloud, which readily makes way to the wound, and if not timely prevented distends and raises the part into a Tumor and Inflames. If this happens in a full Body, or one of an ill habit, where the bloud is Serous and more apt to ferment, the mischief is greater; and if the wound be in a declining part, as the legs, the Influx of humours are more abounding, and the member through its weakness not able to affimilate, nor yet expell; whence crudities heap upon the lower parts and makes an bedematous Tumour there.

To make this more plain, I shall give you one A Person instance of the many that happen daily; A young prickt with Gentleman of about 18 years of age, of a good a Thorn in the Country his leg. abit of Body, one day sporting in the Country vith his Gun and dogs, was prickt with a Thorn n the outside of the Calf of his leg, he takes

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little notice of it, returning in the evening to his home, he drest his leg with a little Balfam, the next morning it was more painful, Inflames and Terminates in a Phlegmon; I am fent for after a few days, and find the Tumour large with great Inflammation, and suppurated; In the lower part, about the foot an ædematous Tumour: I opened the Tumour, and discharged a quantity of Matter, and cured the Patient as is usual in Phlegmons. If this Person had been treated according to the univerfal Regiment by bleeding and Lenient purgatives, &c. Nay if only after this particular Regiment in the preferving the Temperament of the part, which ought in this case to have been by refrigerants and aftringents to have prevented the Influx of humours, and applied some maturative to the festered Scratch or prick, as ung. Basilic.upon a ments pro- Pledgit of Lint to give a Breathing to the part; per in the this with any of our restrictive Emplasters a compress dipt in Oxycrate with convenient Bandage over all, had preferved the tone of the part, and cured the Patient without further trouble.

beginning of a Phlegmon.

> To proceed rationally, by this Intention in wounds, you are to apply to the Lips of the wound fuch Medicaments as have an Agglutinative facultie, as Bolis Armen. Sang. Dracon. Thus, Aloes, Gum. Elemi. Colophon. Terebinth. And outwardly, to prevent influx of humours, fuch as are Cooling, Drying and Corroborative, as fol. plantag. Equifein Millefolin vincaper vinca, ulmi, flor. Rof. rub. Balaust. nucum cupressi. Gallar. Baccar Myrtillor. far Hordei. fabar. vinum rubr. posca. Aqua font. & oleum. These are the Simple Medi caments, which are to be proportioned to the habil intie

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habit of Body and wound, as it is greater or less, Parva & superficiaria vulnera natura sua sponte nullius Medicamenti indiga sanare solet: Labia solum à nobis contrahantur & Ligamento circumdentur, ne pilus aut arena aut tale quid illabatur, & ulcus penitus coalescet, Ætius de curatione vulnerum. In small and superficial wounds, as those which are made according to the length of the member, there Nature of her own accord is wont to effect the cure, without the help of any Mes dicament; from us only is required that the Lips of the wound be brought close together by bandage, that neither hair, nor dust, nor any other thing fall between them. But in greater wounds that will not fo eafily be cured by Surure, we keep the Lips together, sprinkling them with this, or some such like Powder, R. Bol. Armen. Thuris. Sang. Dracon. part. aguales, and spreading a cloath with some of the same Powder, apply it with a Compress dipt in Oxycrate, and a futable Bandage over all; This is generally the way. But left by the adhæsion of this Emplastick Medicament, the Lips of the The Auwound should be torn and disturb'd in taking it thors way. off; I chuse rather to apply over the sprinkled Powder, a pledgit of Lint spread with Liniment. Arcei, or this following Unquent. R. Terebinth. Venet. Ziij. Gum. Elemi. Zij. Sang. Dracon. Thuris. Mastich. an. 3j. M. f. Unquent. s. a. or this, R. Terebinth Zij. Refin. Pin. Oliban. Colophon. an. 3js. Mastich. 3j. Croci 3j. Cera. 3ij. Olei. Hyperic. 9.5. ut ft. Unguent. Unquentum Aureum in the London Dispensatory is also good in this case; as likewise are the compound Emplasters, Diapalma, Diachalcit. de Lithargyr. de Bolo. de Betonica; or you may use this following R. Terebinth. this. Refin.

Resin. Pini Ziiij. Gum. Elemi Ziij. Aristoloch. Long. Zj. Sang. Dracon. Ziss. pulver. omn. subtilissime, & f. Empla. s.a. igne lentissimo.

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In all Wounds where I propose to Cure by Agglutination, and would preferve my Stitches, I forbear the use of Fomentations and slabby Medicaments: nor will you have occasion for such applications, if you proceed rationally as you ought to do; I always accounting these simple Wounds cured, when the Lips are well brought together, and dressed as above-said. Indeed in large and deep Wounds, where the Muscles and Tendons are cut through, there the Wound may require to have a space left open in a declining corner for discharge of Matter, left it be healed outwardly, and some Matter flut in, whereby it becomes an hollow Ulcer. In this case you may use Fomentations and Embrocations. This is to be left to the judgment of the Chirurgeon, who is not to doubt but that Nature will do much towards the Agglutination of the wound; if influx of humors be kept off by his Art. But if the wound be so great and deep that you cannot bring the Lips close together, then in a declining part you may put in a Tent with a Dige-Hive e Terebinth. & vitel. ovi, Turpentine being one of the most proper Medicaments in all Wounds. especially those of the Nervous parts; for it preferves Bruiles from corrupting and putrifying, strengthens the part, eases pain; and this it doth by its Digestive Faculty, and is thus commonly uted. If you apprehend its acrimony, you may take that off by washing it in Plantain, or other water: where we fear Inflammation we add farin. hordei. Or you may use this Balsam of the Spanish Priests.

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Priests, known by the name of Oleum Aparici, Ol. Apariwhich is thus made, Re Ol. olivar. unc. iij. Te- et. rebinth. venet. unc. viij. frumenti Integri, unc. j. Sem. Hyperici, unc. ij. rad. Cardui Benedict, rad. Valeriane, an unc. j. Thuris pulveriz. unc. ij. the Seeds and Roots are to be shread and beaten, put them into a pot, cover them over with Whitewine, let them stand two days infusing, then add to them the Oyle and Wheat bruised, boil them to the confumption of the Wine, then strain it out hard, and add to it the Terebinth and Thus, then give it a walm or two, and keep it for your use as a very good Balfam, often used by me. This is to be dropt warm into large Wounds, and prest out again, and the wound brought as close together as you can, with a Compress dipt in Red-wine, wherein hath been infused flor. rof. rubr. Balaust, and such like, over this Compress make your Bandage; these Wounds are to be drest but every third day.

Galen, speaking of Ulcers, lays, In Ulcers, although Matter flowed much, he Drest them but every third day, and in Winter every fourth day, yet there may be occasion of opening sooner, for the straightning the Bandage, or putting on dry Stitches, or cutting out the true Stitches, lest upon any accident the Suture should relax and the Wound open again,

Thus far I have proceeded in Simple wounds, to Comthe Agglutination of parts, we shall now consider, pound of Wounds, wherein there is loss of substance by Wounds. Abcision, or through a redoubling of the blow cutting twice or thrice in one place, or where through the distance, or hardness of the Lips of the Wound, it could not be kept together, but that a Cavity hath remained in the bottom; and herein

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we are to regard the habit of body, that there happen no defluxion or inflammation upon the part. This is done by universal Regiment and Digestion, with Mundification, that a new flesh may be made to fill the Cavity, to which purpose this or such like may be used, Re Terebinth. unc. iij. farine Hordei drach. sex. Thuris Drach. j. s. Vitell. ovi j. to these you may add after a day or two, Mel. rof. aut Mel. com.q. f. and if yet there be required more detersion, or flesh grow lax, you may use Mer. precipitat, at your pleafure: In these cases I have long Vitrioland pieces of Vitriolum, Roman. & alumen, fitted to Quills, whereby I dry this supercrescency with less dilturbance to the Patient. To this purpose you may use this Mundificativum Apii, R Fol. Plantag. & Apii an. M. j. Ros. rubr. P. ij. Vini rubr. unc. viij. decoquant. ad medias in Colat.dissolv. sach. rubr. unc. ij. Terebinth. unc. j. Farin. Lupinor. & orobi an. drach. j. Aloes, Myrrhe an. drach. f. decog. rurfus & addendo Cera q.f. reducant. ad formam ung. This is Quercetan's. In the use of detergents you must consider the habit of Body, and accordingly add or diminish, making them of a good consistence, and having so disposed the Wound to Incarnation, if what be prescribed do not Incarn, add Pul. Ireos, Colophonia, Mastich, Sang. dracon. Sarcocoll, to make a Sarcotick Ung. and afterwards cicatrize with Ung. Tutie Vigon. or desiccativum, &c. or with Pledgits dipt in an Aq. Calcis, or Aq. Alumin. simpl. facta solutione in Ag. Rubi, and dried again. If a Contusion be joyned with a Wound, then you are in the first place to endeavour, that the Contused flesh in the Wound may be suppurated and turn'd into Matter, and that cum vitello ovi & Terebinth. & ol. Rof. or Ung. Bafilici malaxt in

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> Contus'd Wound.

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ol. lilior. warm the parts about to be Embrocated with lenients Ol. Lilior. Chameli, Lumbricor, and that the more circumjacent parts about be Embrocated with Albumine Ovor. Ol. Rof. Ol. Myrtil. and a little Acet. and some of our restrictive Powders, as Bol. Armen. Sang. Dracon. Flor. Rof. Rub. Balaust, mixt with the above-faid to the consistence of a Mel. or Emplast. è Bolo applied over all, to prevent the Influx of ferous Bloud into the pained part, and a Compress dipt in Posca, with good Bandage to be made over all, to press out the humors already fallen into the part affected, as also to prevent the access of more, which would be apt to flow thither by reason of the pain; to which purpose you are to let the Patient Bloud, and proceed as is faid in preferving the temperament of the part : If that pain increase, you are to have recourse to Anodynes, as is proposed in the Fifth Intention; but if there be little pain, and the flux of humors restrained in some measure; then you are to apply Discutients to the parts about: The Wound digested, proceed as abovesaid with Detergents, Sarcotics, and Epulotics.

These great Tranverse Wounds are not so often Transverse seen here in times of Peace, but in the Wars are Wounds. frequent, especially when the Horse-men fall in among the Infantry; the Enemy cruelly hacking them, the poor Souldier the while sheltring his head with his Arms, sometimes the one, then the other, until they be both most cruelly mangled, and yet the head fareth little the better for their defence; many of them not scaping with less than two or three Wounds, through the Skull to the Membrains, and often into the Brain, and if he sty and the

the Enemy pursue, his hinder parts meet with great Transverse wounds, over the Thighs, Back, Shoulders and Neck. Mr. Sanderson, now one of the Chirurgeons of St. Bartholomews Hospital, was once a fellow labourer with me in the Dreffing fuch : At Sterling Mr. Chace the Kings Apothecary affifted me in the Dreffing many fuch, and one with such a Gash thwart the nape of the Neck, as it was our wonder that he lived: All thefe wounds inflicted behind were full of Maggots, they having been some days Undrest: These Wounds I Atuped with a decoct. Absinth. Centaur. Scord. Lupinor. Myrrha, Aloes, and foftned the stubborn lips with fomentations of Rad. Altha. Confolid. Maj. Sumit. Malvar. Violar. Hyosciam. boil'd in Broath, or with decoct Horder, or with Milk, or warm-water, we refresht and disposed them to yield to Suture, or Bandage; we digested them with Terebinth. & Vitell. ovi, with Dossils, Pledgits, or small Tents dipt in a warm Ol. Hyperici, keeping some declining part open. 'Tis proper to pour Oyle or Balfam into these Wounds, but then it must run down, or be prestout of them again: the parts about we likewise Embrocated and applied over all Empl. de Lithargyro, with Compress and Bandage: digestion once made, we then deterg'd with Mund. Paracelf. and cicatrized, as hath been said elsewhere. Thus I cured all these wounded people, or fo disposed them, as with leave they retired to their own home to be cured with more convenience.

Si vero vulnus profundius fuerit, & in superficie, Angustius, scalpello incidatur ut aqualis amplitudo siat; Ætius, lest Matter corrupt and putrisse in the bottom, or if it happen that a wound is made Tr.

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fo deep, and amongst the Vessels, or that the Unition is hindred by extravalated bloud, lying in the bottom of the wound corrupting and disturbing the Unition of the part; and that the Matter cannot well discharge this way, you are then to consider, whether you may not pass the Matter by a Perforation In fundo, which if you may (as I have often done) then do it either by Knife, or a Caustick, or both : First a Caustick, then a Knife, or by a Setonneedle with a twifted Silk or Thread, or upon keeping this open a few days by a Tent or hollow Canula, you shall easily heal the upper part by leaving out that Tent only; it healing up, as it were, of it self, or by the help of Bandage, to compress the parts; and after a few days more, this lower opening will cure by common Applications, your very Roulers with a Compress dipt in Red-wine, or the like will effect it.

Sometimes wounds are made deep, as in the fide A Wound glancing to the Spine, and run between the Muscu-double in lous flesh five of fix Inches; and in some of these, with Atbefore the Rapier is half out of the Wound, a se-trition. cond thrust is made, by which there is a double Wound, and an attrition of the lower part wounded: the Chirurgeon is to consider well the wound and part wounded, and if this be so made, and is not likely to be cured, by the first Intention, (as it is not if it be by Attrition in fundo) or that a tendinous body be wounded, then confider whether it may not prefently have a way made out below; if it may, and that part kept open by digestion with a small Tent, then the upper part will Unite by agglutination; but if it may not be opened, then he is to digest this upper Orifice, and keep it open:

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open; and if it be not large enough, he ought prefently by Cutting, to inlarge it, while the wound is warm, and dress with your digestive warm, and let him Embrocate the part, the whole length as it is affected, with Ol. Ros. cum Aceto, and apply a good restrictive Emplaster over all, to hinder influx of humors; to dispose parts to quiet, then bleed, and what elfe is necessary for conserving the the tone of the part. If after all these endeavours the wound do digeft, yet will not Cure, however he ought not prefently to open his wound a-thwart the Muscles, nor yet according to the Fibres of them, to fuch a length, not though it may be done without laming the Patient; but shall in such a wound, at the first while it is recent, make learch with a Probe to the bottom of it, and with his finger without, feel what thickness the skin is from it, and keep this place as a mark in time of need, for to make the Apertion in; and if he do after digeition apply his Caustick there, the Matter will thereby discharge, and the Patient be happily cured; whereas the cutting open such a Wound the whole length hazards his Patients life, and makes a long work for himself.

THE Fifth Intention is in preventing of Evil Accidents, and correcting such as are already fallen upon the part; and these are, Hemorrhagia, Pain, Fever, Intemperies, Convulsions, Syncope, Delirium and Palsie.

Of Hemorrhage, or Bleeding,

We shall begin with Hemorrhagia, as being incident to all Wounds more or less, and sometimes the

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the cause of all the other Accidents: wherefore I have treated purposely of the Wounds of Veins and Arteries in a Chapter by it self, so propose here only to speak of it as the stopping of it is made by fome Authors the fecond Intention. The way to stop the flux of Bloud, as it is common in wounds, is by retaining the Lips of the wound together by Suture or Bandage, and by applying fuch Medicaments to them as have a drying and Agglutinative faculty; as Galen's Powder, Aloes p.j. Thuris p. ij. with Hares Furre cut, some of these mixt with a white of an Egg, and applied upon a Pledgit on the Lips of the wound, and over that some little Bole and Sang. Draconis, with a little Resina added to the former mixture, and spread upon a double cloath, and laid over the wound and parts about with Compress and Bandage, and the member placed in such a position as is for the ease of the Patient. This is our first and common way of Dreffing wounds, to stop the bleeding and prevent Inflammation, and is not taken off until the third day, by which time the bleeding is stopt, and the wound near agglutinated; but if the wound be great and deep, fo as you cannot bring the Lips of the wound together, then apply those Powders of Galen's upon Dosfils upon the bleeding Vessels, and your aftringent next, and a Compress wet in Oxicrate, with good Bandage over all, and by the next dreffing you may hope that bleeding is stopt by incarnation, if by your Probing you cause not a new flux of Bloud.

You ought to be speedy in the mitigating pain, Of Pain, for that nothing dispiriteth your Patient more, nor makes more disturbance in Wounds, the humors

mors flowing abundantly to the pained part offending in quality or quantity, according as the habit of Body is affected, whence vehement pain enfues, with great Inflammation and Tumor, wherefore you must hasten to succour it; and in the first place Phlebotomia is proposed as the best Anodyne, for that it takes away the cause of pain. Unquent. Nututum, Refrigerans Galeni, Ung. Alb. Camphurat. populeon. Cataplasmes of Far. Hordei, Fabar. Flor. Rof. Rubr. Sambuci pul. decocted in Red-wine; Oxycrate or Oxymel, or Fol. Hyosciami m. ij. boil'd in milk and with white-bread crums, a new-laid-Egg, and a little Saffron, and Ol. Ref. applied as a Cataplasme; Fomentations of the Roots of Althea Fol. Malvar. Viol. Flor. Chamel. Meliloti boil'd in Broath of a Sheeps-head and feet. If after this it tend to suppuration, then you may proceed that way as in a Phlegmon, but if it yield to none of these, then you may truly conjecture some Nerve is offended, and proceed as is faid in the Wounds of the Nerves. But if pain be caused by Matter that wants a passage out, give it one by Knife or Caustick

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If some hot distemper from Choler offend the part, which may be perceived by the pain and vestication, then those Unquents Nutritum, Alb. Camphorat. Refrigerans Galeni, Populeon. are proper, or this following, R. Succi Plantag. Solani, Sempervivi an. 3j. Boli Armen. 3ss. Litharg. loti aq. Plantag. & Tutia praparata an. 3j. Ol. Ros. Omphac. Nymph.an. 3ij. Aceti Rosacei & Cera Tantillum.

tillum. Ft. Unquentum.

If the distemper be ædematous, as will appear by the laxness; then Fomentations wherein Flor. Cham. Aneth. Meliloti Sem. Fanug. &c. luch like boil'd boil'd in Wine with good Bandage will serve your purpose.

Fever accompanies great Wounds, especially Of Fever. where there is Inslammation, it is almost inseparable: therefore you are the less to trouble your self-thereat: but if in small Wounds it happen or continues after the pain and Inslammation is removed, and hath Delirium or Syncope with it, then there is great cause to doubt the welfare of your Patient: You are to order in all these distempers a slender and cooling diet, and humecting, and with lenients gently to loosen the Body, and by bleeding and repeating as you see cause, Apozems, Juleps, Emulsions, Epithemes, which by refrigerating and contemperating the heat, are here proper.

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For Gangrena, Convulsions and Palsies; I refer you to their proper places, as more accompanying Gunshot than these Wounds.

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CHAP. IV.

Wounds of Veins and Arteries.

HE next thing that offers it self to our confideration, is the Wounds of particular parts, and first of the Veins and Arteries. which are subject to great effusion of bloud, whereon the life of your Patient depends. Est enim sanguis Thesaurus vita: and therefore requires your speedy help. You may distinguish whether the bloud be from an Artery or a Vein, by the flowing of it, and by its colour. From the Artery the bloud rushes impetuously & per saltum, by reason of the dilatation and constriction of the heart, and is of a florid colour. The Venal bloud flows with a more smooth and even stream, of a gross consistence, and of a darkish colour. Of these Wounds there is no great danger, Galen's Powder with the white of Egg, with the Suture and the formerly proposed way of dressing and Bandage, will certainly stay the bleeding of Wounds in the greater Veins, and cure the Wound at the same time, or in few days: But those of the Arteries are most difficultly stopt, for that the bloud is in a most vigorous and strong motion.

If these wounds be not with loss of substance,

Signes of the Artery wounded.

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and lips bruifed, you are then by Suture to bring the Suture. Lips & Artery both together, passing your Needle, with a good strong thred seared through both Artery and Lips, making Guido's future, which he calls suppressoria or Glovers-stitch. And having thus fecured the Vessels for the present, you are then to apply fuch as this over all. R. Boli Armen. 3iij. Applica-Sang Drac Thuris, Aloes, Glutinis sic. an. 3j. Gyp-tives. ft, Farin. Volatilis an. 3 ss. Hipocystidis, Acatia Sumach.an. Ziij. with the white of Eggs make it to the confistence of Honey, apply this upon a double cloath over the wound and parts about, with a compress squeazed out of Oxicrate or Acetum, and roul up the Member, with the Agglutinative Rouler, beginning on the opposite part, bringing Roulers. both the heads over the wound, and having taken a turn or two there, roul upwards and downwards, lo as to press the bloud from below upward, and to hinder the Influx from above. Your Bandage must so be made, as may be to the ease of the Patient, and the position such as may prevent as much as may be all pain, keeping him cool and quiet, and to a slender diet, and his drink cooling and Ordering Incrassating, as Fountain water, with Sal Prunella, the part or Acetum, or with Gads of Steel quencht in it, Iweetned with Syr. of Coral, or Pomegranates, or some of these of Quercitan's, R. Croci Martis, Essentia Corallor. an. 9j. Syr. de Ros. Sic. & Mirtill. an. 3j. aq. Papaver. Rhead. 3iiij. m. or a Decoct, Hordei cum Sem. Papaver. Alb. & Hiosciami, with Rose-water and a little Sugar, as a draught at night, or at present in any great extremity in bleeding; also a grain or two of Landanum, if the Patient bears it well, in these cases is commendable. You are to let bloud from the contrary part as the Bleeding, strength where,

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strength of the Patient will permit; only a little at a time for revultion, as also Cupping, Friction, Binding the remote parts, & the like for derivation.

Qu. if the Stitches break.

In fuch great effusions dress not the Patient again in five or fix days; then if all be well, drefs him again after the same manner; but if you find the bloud hath made its passage through all, and the Stitches broken, then if you can come to the Arterie, you shall do well to take hold of it by a

and Abcilion.

Deligation little hook, and separate the Vessel from its teguments, and with a twifted thread make a deligation upon the upper and lower-most part of the Artery,

and divide it in the middle, fo the ends will contract; and as the Artery Incarns, the Ligature will cast off: Then proceed by digestion and Sarcoticks, and cicatrize the wound. But if the Artery

lies so deep that you cannot possibly come to make deligation upon it, proceed by Escaroticks applied to the Vessel, or by an actual Cautery. If by Es-

caroticks, then you are to cleanle the wound of the clotted bloud, and dip it in some such like Powder, R. Thur. Pul. 3ij. Aloes, Glutinis Sic. an. 3j. Chal-

cant. Ust. Zijs. Arsenici Zvj. Gypsi Zijs. apply this upon the Artery thick, and fill up the rest of the wound with Galen's Powder, with Hares Furre cut

into it, and over all your digestive & Terebinth. & ovo integro, and dress up the wound as before; and at your next dreffing, leave the Escarotick Stick-

ing, and Incarn as fast as you can, or instead of them, Vitriol powdred and tied in a fine rag, and

thrust to the bottom of the wound, and dressings applied over as before.

But if after these former dreilings that Artery bleed, and you cannot come to divide the Artery, then you must use the actual Cautery. By

Escaroticks, &c.

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it the Veffel shrinks up at both ends, the flux is immediately stopt, and the part marvellously strengthned. You are to convey it down by a Canula, and that it may not heat, cover it over with an Emplafter, and wet the outside with the white of an Egg, or mucilage of Quince-feeds. But before you use your Cautery, you should remove the grumeous bloud, or whatsoever else lies in your way, lest it cool your Cautery, and frustrate your endeavours, and pain your Patient to no purpose: Once or twice pressing with your actual Cautery to divide and contract the Artery will be sufficient. Oftner may burn it to a coal, which may cause the falling off of the Eschar before it is Incarned, and a new flux of bloud follow; that done, drefs the part with a little of the mucilage of Quince, mixt with the white of an Egg, and Embrocate them about with Ol. Rosar. and apply your Emplaster Diacalcith. malaxt with some of the same Oile over all; and after you have allay'd the heat of the part, then digest the Wound, and with Sarcoticks Incarn, and by Epuloticks cicatrize the Wound.

A person of a good habit of body, about 35. years of Age, wounded in a Duel on the right fide the Affe- Observ. 1. ra Arteria; being run through his neck below the the interlast Vertebra of that side behind : The Wound was nal Jugasmall, yet he bled with a full stream, but it stopt lar. by holding a finger upon it while I made dreffings ready, which was with a few of our common aftringent Powders, with the white of an Egg, and a little Aret. upon a thick Pledgit of Lint, with an Emplaster after of the same, with Compress and fuch Bandage as it would bear: The Wound behind bled, when that before was drest. I applied

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the faid Medicaments to that, and we held them on with our hands, until they were dried on, then we put him to bed in the same house, and kept him cool and quiet. I used all my endeavours for the contemperating his bloud, as is usual in such cases, and dreft him but once in four or five days, unless I were necessitated by the bursting out of the bloud from his wound; he bled at times about 16. or 17. days; his wound by the Vertebra of the neck was cured in few days: and this near the Aspera Arteria was cured by this way of Agglutination the nineteenth or twentieth day.

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Observ. 2:

A man wounded in the Artery under the right An Artery Eye, was at that instant drest by Mr. Fawcet Chiwounded. rurgeon, the next day in the afternoon it burst out impetuously; I was sent for, and found it bleeding with a strong impulse, the wound very small, not so big as a filver penny, made by a blow with the corner of a Trencher; I drest the Wound with Pulv. Galeni, and applied an Emplaster over it made up with my common restrictive Powders, cum Albumin. Ovor. and a little Acetum, with good Compress and Bandage bound it up: The next day his Wound bled again, and upon stopping of that little wound with my finger, the bloud was feen to beat all along the Artery under the Eye to the Temporal Muscle, with a greater force than is commonly seen in an Aneurisma; I then with a crooked Needle peirc'd through both the Lips and Artery, and by Deligation restrained the bleeding, and with Emplastricks drest it up as before, concluding I should have very little more trouble from this wound; but within two or three days after, it burst out bleeding again; then I being absent, some other Chirurgeon Chirurgeon was call'd in, and after at another bleeding Mr. Fawcet drest him, and at another time Mr. Aris drest him, the wound was now grown large, with the crowding of Dossils, and being in a very inconvenient place for bandage, it bled often, and was drest by such Chirurgions as they could meet with in their necessity; Escaroticks being thus frequently applyed to stop the flux of bloud, his Eye was very much inslamed, so as it was verily believed by us, that if he did recover of his wound, yet his Eye would be lost, his continual bleeding thus for many dayes had so exhausted his Spirits, that there was small hopes of his sur-

viving.

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At the last bursting out of this Vessel, Mr. E. Molins deceased, Mr. Fawcet and my self met together at his Chamber, we found him lying as dead, with his hand out of his bed upon his breaft, we felt for his pulse but it did not beat, we concluded him dead, and took the dreffings haftily off the wound, it did not bleed though it was open, we supposed the bloud exhausted, the Artery lay in the wound torn by the Escaroticks, we took up the Ends and tyed them, and dreft the wound with Liniment Arcei and an Empl. over it, not believing that the man would ever recover, but from this time, the bleeding of the wound ceased, and the wound by very common remedies daily Incarned to my admiration, and he was in less than a month perfectly cured, both of his wound and eye. This Patient was subject to the like bleeding upon every Scratch.

A Butcher was wounded in the Artery between Observ. 3. the Thumb and Fore-finger, with a large wound, Artery after he had been drest three or four days by some wounded. body, the wound continuing still to bleed, he came

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to me late one night from Westminster bleeding, with dossils crouded in the wound, I threw them out, and with a needle and a thread stitch't up the wound and the Artery with it, sprinkling my agglutinative Powders upon the Suture with my Empl. and Bandage, as in the former wounds is faid; in three or four dreffings I cured him, but after there remained some pulsation extraordinary under the Cicatrix, which proceeded from the too lax Incarnation of the wound, wherefore with a pledgit dipt in a dulcified Tincture of Vitriol prest out, and Applied with a good Compress, and rouled over the affected part, it was dried and shriveled so as from that Application there was feen no more pulfation in the skin from the Artery.

Observ. 4. broken open.

One in the New Exchange had an Aneurisma in Aneurisms the palm of his hand, lying a-long to the third and and fourth fingers, which at last broke out, and bled at times the space of eight or ten daies, and being at a loss he sent for me, with this Tincture of Vitriol as above-faid, I cured him not only by stopping the bloud, but by making a firm Cicatrix, I drest these Eruptions, but seldom once in four or five days.

Observ. 5. the Surall Artery.

A Sedentary young Gentleman of an ill habit Wound of of Body, wounded by a puncture in the Infide of the calf of his leg into the Surall Artery, bled much, a Chirurgion is call'd for; he fills up the wound with his Dossils dipt in albumine ovi, and astringent pouders, wherein was Escarotics calchantum ustum,&c. Applying over this his Emplaster and Bandage, by which he stopt the flux of bloud, and left the Patient to rest: The next day I am cal'd

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in to dress the Patient. Upon a relation of the wound and this manner of dreffing, I propose not to open the wound in four or five daies, unless some Accident happen I visit him daily, he keeps his bed, complains of a disturbance in the wound, as burning, throbbing, and pain at times, not constantly, and is very Apprehensive of its bleeding; looks himself often upon the Bandage, and Alarums me by messages as often. The third morning his Chirurgion and my felf meet, we find the Bandage all bloudy; we propose to dress, The Apparates being made we take off the dreflings, and find the bloud fresh in the Roulers, but upon taking off the Emplaster see the Dossils come out, and with fuch a foul bloudy sanies, as is usual in fuch wounds after the filling them with fuch Powders. I consider with my Brother Chirurgion, whether the putting in a Tent with Escarotics may not stir up flux of Humours, and be attended with Inflammation, &c. and whether that way we may be fure of meeting with the Artery; and if we do whether our Medicaments will restrain its bleeding; and if not, then whether by pressing upon that Artery we may not raise a flux of bloud anew? To avoid all fuch I resolve to dress the wound with our common digestive, with Tereb. vitell & ovi with pulvere Galeni, and so we apply it upon a thick pledgit of Lint, and Embrocate the parts about with ol. Rof. & Aceto, & Empl. & Bolo over all with good Compress and Bandage; by this I suppos'd the parts would be at ease, the wound at liberty to difcharge the sloughs and sanies which was made and choaked in by the last dressings; and the Unition of parts within furthered, and the bloud in the Artery restrained. If it did not thus answer expectation.

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pectation, yet I concluded we had done what became good Chirurgions, and that at the next dreffing it would be in our power more easily to lay open the wound, and divide the Artery without hurting the nervous or tendinous bodies near it. For a wound so drest up would either unite or dilate its lips, there being a pledgit proportionable to receive a small quantity of matter, such as might be expected from fuch a wound well-condition'd, but a greater quantity, or a new flux of bloud that could not get out fo, must necessarily distend the lips, we refolving not to drefs the wound again in less than 3 or 4 daies: Thus we left the Patient easie; but the next day I found him unsatisfied how this wound could cure so drest without a Tent, and oft murmuring that it would rancle; yet he continued pretty easie, and did not bleed all these three dayes. The Fourth day at the opening, we found no bloud but what was mixt with matter, and the wound lookt well; but by his importunity I complyed with him, and put in a short Tent spread with digestive and dipt in præcipitate, and drest him up again; and the third day open'd, and upon the dreffings there was a fresh bloud again, which was followed by a thick white Matter, as from a Phlegmon, more than might reasonably be expected from a small puncture, not above half an Inch deep; wherefore fearing a cavous Ulcer, I resolved to dress without a Tent, and by good compress and bandage to press out thit Matter from within, and defend the part from Influx of Humours from above: to which purpose I drest with pledgits as before with my digestive, &c. and open d the wound once in three dayes, and altered not this method, though I chang'd the ung. upon the pled-

git as I thought fit: Thus I kept the part without tumor or Inflammation, and the matter lessened each dreffing, but was not well digested nor free from bloud, but his feet swell'd, and himself Hdisposed; Scorbutic and such like affections, with loss of Appetite, fainting, &c. To relieve him in these Dr. w. was consulted, and after a while I caused a straight stocking to be laced on both legs, and got him out of Bed at least for some little while every day, and when he was able he retired into the Country, but bath not yet got off of the disease he heightned, by keeping within doors with this little wound. Doubtless this cure had been shorter, if immediately in the first dressing he had been bound up with an Agglutinative bandage, and the whole committed to nature.

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A Cooper living near Maidenhead in the County Observ. 6. of Bucks, accidentally in letting bloud was pricke Artery in an Artery, the Arm swells and is pained, he wounded puts himself into another Barber Chirurgions in a Coohands dwelling in Windsor, who by unfit applica pers armat windsor. tions, Relaxes the part, then supposing the fold Tumor he had made was a Suppuration of Matter (though indeed it was the Arterial bloud) he with his Incision knife or Lancet cutts into it, at which an impetuous flux of bloud rushes out, to the quantity of four flaggons, he fills up the opening with Lint, and makes a hard bandage round it, which fomewhat restrains the flux of bloud, but the Arm fwells, and threatens a Gangreen: While this poor man lay thus afflicted, We his Majesties and Royal Highness Chirurgeons attending the Court, did vifit him, and proposed to make an apparatus for the taking up this Artery, or in case of failing to

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take off his Arm by Amputation; We met the next morning, the Patient is taken out of bed and placed in a Chair towards the Light, one of his friends held him in the Chair : Mr. Whittle stood behind his Arm, and held his Elbow with his left hand; and with the other hand was ready to help me in the operation; Mr.L. holds the lane hand: In the first place I viewed the Arm, where finding no Gangreen according to the report of the Chirurgeon, but rather (as I thought) an Aneurisma, I made a bandage above the wound, to hinder the Influx of bloud into it: Upon this bandage Mr. Pearce made the gripe; I then untied the Ligature from about the wound, and found that also free from Mortification; I put my finger into it, and finding the skin made thin by distention from the bloud, I call'd for a Knife, which while I was fearching in the wound, Mr. Whittle took into his hand: I prayed him to cut through the length of the hallowness. It being done, I with my finger thrust out the Grumous bloud and an Abscess from the lower part of the Arm. When I had cleared the parts more distant, which would have fallen in and blinded my Work, I then made way to the Artery, removing from about it the clotted bloud; upon which it immediately burst out, I prayed Mr. Whittle to hold his finger upon it, he did so; then I separated it from the parts about it, and passed a crooked Needle under it; and being ready to tye it, I defired Mr. Whittle to hold off his finger, that I might be the more fure it was the Artery, upon the doing of which it spurted out: I tyed it; but in tying the Thread broke: This caused a murmuring in some of the by-standers, as that the Patient would die under our hands while I was endeavour-

ing deligation, which by a new wounding of the parts would hasten Mortification and Death; I defired they would continue their places, and Mr. Whittle his finger upon the Artery, that it bled not; he did so; in the while I made a strong Ligature of some twisted Threads, seared it, and put it into the eye of one of our common filver fearthing Probes. Gentlemen, said I, you shall see me pass this Probe under the Artery, and thereby you may be affured I shall wound no parts; I immediately did fo and tyed the Artery, Mr. Whittle took off his finger, it bled not; then Mr. Pearce took off his hands, I then loofened the Bandage, which was all the time before under his hands, It bled no more; I told them there was more to be and done in order to the binding that Artery; but in continuation of the continual Fainting of the Patient, we would defer it to the next drefling: then calling for dreffings, they brought me what was defigned for Amputation, which I refused; and ordered the common digestive è Terebinth, cum Vitell. ovi, which they fetcht.

I cut off the ends of the Ligature, and dipt some of the pledgits spread with the Liniment in Galen's powder, and applyed them next the Artery, and the rest of the pledgits dipt in ol. Ros. warm, and lightly sill'd up the wound, then Embrocated the Arm with the same oyl, and laid a Diacalcitheos Emplaster over the wound and that part of the Arm, and over the hand and Arm below which was Oedematous, a mixture of Diacalcith. & Paracels. Then with bandage began at the hand and rouled up the wound, and taking a turn or two there, I rouled up to the Axilla. This was the Ligatura Expulsiva, by which I proposed the thrusting back the Instux of humors,

humors, and to give strength to the infeebled Member; He being now again in his Bed, I placed his hand upon his breast in much ease to the great joy of the Patient. At the next dreffing, only Mr. Whittle and the Countrey Chirurgeons were present with me, we opened the Member, found the tumor allay'd, the wound fresh and tollerably digested, we now passed another Ligature upon the Artery above the first, and in pulling the first to cut it off between the Ligatures, it broke, which was as well: We drest it up with the same digestive, only leaving out the Powders; Embrocated and applied our Emplaster, rouled up parts as before; The next timeMr. Whittle and I undrest the member, and found the wound in a very good condition, with affured hopes of curing it in a few weeks, the Lips of the wound being more digested and contracted, we drest it up with Mund. Paracels. And now being Impatiently expected at London, with my difeafed Patients, I return, leaving it to Mr. Whittle, who drest it for the space of 10. dayes, it healing up without any return of bloud; In his absence Mr. L. dreffes the Patient; but whether in wiping off the knot or what elfe, it burst out again; Serjeant Knight came in, dreffes it with Calcanth, uft. and from that time it bled no more.

The Ancient way of tying this Artery is as I have already faid by tying it in two distinct places, and cutting it off between, but here the Patient often fainting interrupted us in that work, and the break-

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CHAP.

ing between faved us the labour.

The cutting in pieces the Arteries hath often been performed by me in Strumous ulcers, where they ride over the Carious bones; in doing which I never fee the Artery break out in bleeding after the day I cut it.

CHAP. V.

Wounds of the Nerves, Tendons and Ligaments.

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TErves may be many wayes wounded, viz. Casim or Punctim, the former way they Wounds of are usually cut through, and then occasion no new Nerves consideration in Chirurgery, because they wholly and Tencease from action and are irrecoverable; but when prickt by a sharp pointed weapon, which is call'd a puncture, they are much to be regarded; fo also Tendons, not the small Fibres of them (which are in every wound of the fleshy parts, when they are largely cut, whence they become painful) but the main body of them, which usually make up the tail or head of a Muscle, if you would know whether these are wounded or not, consider the place wounded, viz. whether near the Joint, in the infide the Arm, or Leg, or the end of the Muscle, or if in the Tendinous parts of the hand or foot, whence immediately arise great pains and Inflammation, also a contraction and hardness in the Nerve or Tendon follows. But if the Nerve be quite divided, the pain is little, a kind of Stupor or Numness, and the particular part is Lame.

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Ill conlebleeding from a prick of Nerve or Tendon.

The most frequent wounds of Nerves, and most quences of to be taken care of in Chirurgery being Punctures: I shall instance in them, and chuse the most common, not alway viz. those which are made accidentally by letting bloud: and here by the way you must take notice, that in letting bloud, sometimes the Apertion happens to be made when the skin, by the Bandage or position of the Arm, lies equal with the Vein, yet afterwards is not fo, or the Apertion is made too small in the skin; so as part of the bloud is choakt, and lies there extravaled, whence a Phlegmon is made, or it happens in those that are well Let bloud, yet through the Indisposition and ill habit of Body, the part prickt festers (as they usually fay) and is a day or two after fore, and if neglected makes a Phlegmon: all these Phlegmons do Inflame and swell the part, and contract the Arm; if a Boyl in a fleshy part be painful, then much more these in the Joynts, amongst the Nerves and Tendons, and this accident hath happened to all that do use to Let bloud, whether Physicians or Chirurgeons.

This was the reason that some of our old Master Chirurgeons did after Letting bloud, always apply a pledgit of Basilicon upon the Apertion with an Emplaster over it, this breathed the part, and fecured it from corrupting. But we by a contrary way, as by a little Compress dipt in water, endeavour to restrain the bloud, and should be laught at if we should continue the old way of Basilicon.

At the time we Let people bloud, they are commonly labouring under some great fermentation, or apprehend it so; no wonder if it sometimes fall upon the part where it was invited by bandage.

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I have been sent for into the Countrey to a Person, that after a Letting bloud, was seized with a great Inflammation the whole length of the Arm, this was an Erysipelas, the Apertion in the Vein might possibly be the cause, but that place was not affected at all; Dr.R.complained once of a Chirurgeon, who was so unconscionable as he said, to ask five pounds for curing an Arm he had made fore by his Letting bloud; but I hope no person is so ignorant or malicious, to impute these accidents to a Puncture of the Nerve and Tendon.

But when they are really prickt, their Sym-Signs of a promes, as you may read in all those that have Nerve writ of them, are suddain with vehement pain, prickt. faintings, convulsions, and are attended by great defluxions; they do not terminate presently in a Suppuration with good Matter, until great Endeawours have been used, these yield not to the simple anodyne Cataplasme of white bread and milk.

Here are other considerations; and in the first place whether they lie open, or the Apertion in the skin over them be small, or that the Nerve or Tendon lie covered under the Membrane Adipofa; Cure. if it be fo, then you are to open the skin that the Medicaments may penetrate to the wounded Nerve or Tendon, and hereto those Medicaments are proper, which are of hot dry and fubtil parts to confume that Ichorous water, which first affects the Nerve or Tendon, and will cause putrefaction: ol. Ros. with a little bay-salt dissolved in it and dropt into the part scalding hot, dressing it with a pledget spread with Basilicon dipt in the same oyl, and the part Embrocated about with ol. Lumbric.

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with an Empl. diasulp. over, and this cataplasma over that, Re farinæ Hordei, & fabar. an. Ziiij. sem. lini & fænugræci pul.an. 3j. flor. ros. rub. flor. cham. Sambuci, & sumit. Absinth. an. Ziij. boyl this in red Wine, or the com. lixivium, adding oxymellis Ziij. ol. Rof. Zj. M. So roul up the part gently; if there be much pain dress it twice a day, and if the part requires Medicaments of more drying and fubtle parts drefs with Balfam sulphuris Terebinthinati, or ol. Sabine & Terebinth. an. Zij. Misce or ol. Costinum, Ruthe, Sabine, Aneth. scorpion.&c. These are all proper Medicines to dress the affected part, they having the quality required to dry and confume that matter which lyes corrupting in them, if applyed actually hot, the Application of the former oyl of Roses and Salt hath alway served my purpose.

Caution.

Prognoflicks,

In your Application of your Medicaments, you are to confider what degree of heat and Siccity is proper for the offended Nerve or Tendon; if in your use of these Medicaments your Patient feels not the heat of them, or feels it vehemently, it is then not rightly fitted; For in the former case it doth not enough dry up that sanies, or in the latter it doth withal inflame the part; if the Patient feel the heat moderately, the medicine is good, but if from the use of the Medicine the part Itch and Smart, and the Apertion made by the Puncture gape as at first, then the Medicament is ffronger than it should be; if the hardness go off and the contraction, and the orifice not too open, 'tis a good fign: if the Nerve be cut according to its length it is the least dangerous, but if transverse: most dangerous, all these wounds are accompanied with

with gleet and great pain which stirs up fluxion; if they yield not in their cure to fuch Medicaments as have been proposed, then you are to divide them, to prevent convulsions, spasma's, and Gangren, after which they cure as other wounds, but do require more care in their position to keep the member steady, if it be in such a Joint where there are Nerves and Tendons, that move contrariwise; otherwise the member will not yield to that contraction, and become more difficult in their cure, and of less use when cured.

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The Ligaments require much one method with Cure of lithe Tendons, only your Medicaments are here gaments to be more drying, as Euphorbium, Sulphur vivum, wounded, the fame calx lota Tutia, &c. without acrimony.

A Youth about ten years of Age, one day in the Wound in Sessions yard leaning over the spiked pails to see the inside the Malefactors, was suddainly frighted down by of the write the Marshals men; in his falling was catcht by one of these spikes in the inside of his wrist; it passing between the bone and Tendons, he hung thereby until he was taken down, they carried him home, I was sent for, I found the Tendons stretcht out to a great length, and some of them broken, others torn, and one of the bones of the carpus lying loofe in the wound. In the dreffing this wound there was trouble how to place these Tendons; I began in taking out the loofe bone, and cleanfing the wound, and placing these shatter'd and overstretcht Tendons within the lips of the wound and made my first Stitch in the middle of the wound. bringing the lips as close together as I could then I made two stitches more, one of each side the middle

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stitch, dressing him up with my digestive e Terebinthina, &c. dipt in this following Balfam, R. Terebinth. Ibij olei olivar. Ibiij. ol. Laurini Ziiij. Cinnam. Biij. Euphorbii Garyophil. Baccar. Juniperi an. 3j. Gum hedere, Sagapeni, Ammoniac. opoponac. Galbani an. 3ifs. Myrrhe, Mastich. Colophonia pul. an. 3iij. distillentur pro usu. Over this I applyed my Empl. è Bolo, with a compress dipt in Oxycrate, and so rouled up the member, and fome hours after let him bloud, and gave him that night a draught of Aq. Paralyseos with syr. de meconio. & aq. cardiac. C.iij. that night he rested ill, and in the morning was full of pain. I took off the Bandage, and bathed the affected part with a decost radic. Altha, Malvar, violar. cham. verbasci hioscyami, and applied a Cataplasma with farina Hordei, fabar. flor. Rof. rub. Balauft, decocted in Oxymel, with the addition of ol. Lumbric. & rosar. over the former dreffing; the next day his pain was much mitigated, the Tendons all drawn up, and the stitches laxe: I thought to have drawn the Lips close, but found them too painful to admit of it, therefore I cut the stitches out, and brought them as close as they eafily would, and dreft up the wound as before. After some few days, the wound being tolerably digested, I drest it with this unquent. dipt in the former Balfani, and applyed over the wound the Empl. Diasulphuris Rulandia, with bandage and compress as before, R. Terebinth. Resine, pini, ol. Hyperici, an. Ziiij. Sarcocolla, myrrha, Thuris, an. Ziij. Cere q. Sufficit; dissolve them, and bring it to the form of an unguent: Thus I happily deterg'd and incarn'd, and by ung. Tutie and my ordinary Epulotics cicatrized the wound, and he some while after was restored to the use of his hand. A Tet Tat

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A Coach man wounded transverse over the back- Wound on fide of the wrist, deep into the Joynt, so that his the infide hand doubled inward, was carried into the next of the wrift Inn: I caused a ferula to be placed under his hand Joint. the better to support it, and placing the fingers crookt over the ferula, I fearcht the wound and pul'd out many fragments of Bones, and after cleansing the wound brought the lipps together by three stitches, leaving a discharge for Matter in the ends of the wounds which were both depending, dressing those ends with a digestive & Terebinthina cum vitel. ovi & far. Hordei with a little crocus. Upon the Suture I sprinkled the powders of myrrha, Aloes, Thuris, & Sang. dracon. and applyed the unguent mentioned in the former Chapter: then taking Bolus Armen, with some of the former Powders, made up with Alb. over. Acet. & ol. Rof. mixed to the confiftence of a mel. applyed it as a restrictive over the wound and parts about, and placed his hand again upon the ferula, with a foft folded cloath under it, bringing his fingers over the end of the ferula, that they might be in some capacity for future use: Thus having placed his hand I roul'd it upon a good compress dipt in Oxycrate, and afterward Let him bloud, and gave him 3vj. syr. de meconio in a draught of Mace-Ale for his Supper, and fetled him to rest, but he slept little that night. The next day I ordered him a Clyster and a slender diet the day after I opened his hand again, and fomented the wound and parts about with an Anodyne decoction, as in the former Chapter, and dreft up his wound as before, Embrocating patts well about with ol. Lumbric, and applyed my Emplast. è Bolo, over the wound and adjacent parts: it digested in

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the declining ends a little, but continued painful, yet much more pained in the fingers: the next days dressing I cut out the stitches, and drest the wound with my digestive è Tereb. dipt in my former mentioned Balfam, and applyed a Cataplasme warm over all the wound and hand, as in the former Chapter, and roul'd up the member again: This wound did not digest kindly, nor was it easie during the whole cure, but the Inflammation went off with the Tumor about the wounded Lips; but in the fingers and back of the hand remained an ædematous Tumor. The day following I took off the dreffings, and finding the Lips which I had stitcht lye open, and a white flesh within them, I dropt in some of my Balsam warm into the wound. and fill'd the crude Lips with mer, pracipit, and laid pledgits spread with the above-mentioned unguent, with some succ. Centaur. & Chelidonii, with mel Rof. boyled it gently to a good confishence, and laid the Cataplasma as before over all: Thus I deterg'd and cured this wound, sprinkling the Lips with calx lota, which cicatrized it. After this I put on a Catagmatick Emplaster, and kept the main d hand still upon the ferula, and afterwards caused a Glove to be made to lace upon his hand and fingers, to take off that pituitous Tumor, which did accordingly answer my expectation. pain continued, and so weak, as he kept it upon the ferula a good while after; fince the writing of this I am informed he continues in the same service, his wrist is stiff, but he drives his Coach.

A finger A Person of a good Age and ill habit of Body bit off by walking in the street, passing by a Coach one of the Horse. Horses snapt off the end of his singer the Glove with

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with it: I dreft the stump with the common digestive dipt in a little ol. Ros. warm, and with Emplast. diacalcitheos, malaxt with a little of the fame oyl, roul'd up the stump. This Patient kept not his house with this little hurt, but came to me to be drest once in a day or two, and sometimes drest himself, he not thinking it worth the observation of diet, bleeding, or the like: one day when neither of us suspected ill he came to me, the Ulcer was crude, an Ichor dropt from it, and the part about it was bliftered, I scarified the part blittered, and dabbled the wound and about with ol. Terebinth, warm, and strewed mer. pracipitate over all, and with pledgits dipt in Basilicon with a little ol. Terebinth. and with Empl. diacalcith. over it, roul'dit up; and that night came to his Lodging with a fomentation, and other Medicaments prepared for a mortification, but found it better disposed; so continued the dressing, and afteward Let him bloud, and the next day purg'd him with an infusion of Senn, &c. the wound digesting well from that time, I Incarned and Cicatrized the stump. Thus fometimes great mischiefs attend little wounds, through the contempt some of our Patients have of them.

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CHAP.

CHAP. VI.

Wounds of the Face.

Lady was wounded down the whole length of the forehead to the Nose, and then transverse under the lest Supercilium towards the Temporal Muscle, her Eye and Face much bruised. This hapned to her travelling in a Hackney Coach, upon the Jetting whereof she was thrown out of the hind-seat, against the forepart of the Coach.

At the first fight of the wound in her forehead, feeing the bone bare and her felf fo disturb'd, I doubted whether I should stitch it, or keep it open with dossils; but feeing no fissure or Inequality in that part of the bone that was bare, and con--fidering the deformity in that place would be great, being the whole length and middle of the forehead. I resolved to make one stitch in the middle of the forehead to bring the lips close together; so as if any Symptome prognosticated ill, I might at pleasure by the cutting off the stitches lay it open again, but if there was no cause, then the next dressing, I proposed by dry stitches to bring the Lips of the wound close together; the upper Eye-lid hung down upon the Eye, reaching from the Inner Canthus of the Eye more than half an Inch beyond the outward. it was bruifed, excoriated, and much swell'd.

not capable of the dry stitch, nor in that place of Bandage, it being all along under the Brow, wherefore I made four stitches at such distance as they might be able to keep the Lips close together, and the last stitch towards the Temporal Muscle, I took in the piece of skin that was divided by a wound above it, as in a double Hair-lip; and over these Sutures and Wounds I sprinkled a little of these powders, Terra. Sigill. Sang. Dracon. Aloes & Thus, and my Pledgits spread with Arceus his Oyntment, and over these my Empl. è Bolo, and with Compress dipt in Oxycrate, and made my Bandage over from the wound, the two heads of the Roulers meeting behind; this I did to keep the wound in the forehead from uniting too close, I still fearing some Fissure or mischief there, she complaining much of her head; I having thus dreft her wounds, I caused some Aq: Ros. Rubr. cum Alb. ovi to be beaten together, and dropt in her Eye, and little foulded cloaths doubled and wet in the same to be laid over that part, and over the Cheek my Empl. è Bolo, and forbore the bleeding her that night, in consideration that nunc fluebant catamenia, and she bled the space of five miles coming back.

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The second day after I drest her again, and finding less suspition in the wound of her forehead, of fracture or fissure, I brought the Lips of that wound together with dry stitches, with a little of the powder forementioned, with the white of an Egg, and strengthened those sutures of the Supercilia by the same Medicament, lest the continual motion of the Lid should relax them, and then drest it up, and brought the Bandage now from behind, with both the heads forward, passing one by another

to bring the Lips of the wound in the forehead close together, and dreft her Eye with Aq. Pomor. Matur, with a few grains of Vitrioll. Alb, this warm to remove the fuffusion upon the Cornea; and upon her bruised cheek I applied a Cataplasme of the roots of Orpen beaten in a Mortar, with the white

of an Egg.

Two days after I dreft her again, and finding that the dry stitches kept those Lips of the wound close together, I cut off the other stitches from out the Lips of the wound, and drest her with my Sarcoticks composed of some of those powders forementioned, which supplied the place of Epuloticks, and that morning I let her bloud, taking away about 10. ounces with a rotten Serum upon it.

The next day she was purged, this was done for the carrying off the flux of humor from her Eye and Face: thus was she Cured and disposed to go out of Town, the same day seven-night she was wounded, the was hurt upon the Munday, and the Sa-

turday afterward she was cured.

A Servant of the L. B. was wounded on the right Cheek, from under the Eye over the Os Zygoma down the Muscles of the Cheeks; In cleanfing of the wound, I felt a piece of the same Bone which was cut off by a flanting blow, and hung only by some fleshy fibres in the wound; it was cut over the whole breadth of the Bone; I took it out, & for that the part would not well admit of Bandage, I made two stirches in the wound, bringing the Lips even and close together; I drest this Patient as the former, and the third day after dreft him again, and found his wound agglutinated; I cut out the stitches, and drest him with the same agglutinatives MO

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And so I have cured all the wounds of the Face as happily; in a Hair-Lip of the Nether-Lip, I cut a little Boy (who lay in London, and lived at Greenwich) of about seven or eight years of Age, and cured him in ten or twelve days, though this Lip by reason of slavering, and a childish trick he had of sucking his Lips in his sleep, was the more troublesome to me; yet he is so well cured, as I believe 'tis scarce discernable.

Whilest I served amongst the Dunkirkers, where A Datch Snick and Snee was, as it were, a fashion, I had Hamburmuch of this kind of work, and for your diversion ger markt shall set you down one of them.

Whilest our Squadron rode at Anchor in the the Right Groine, there came in some Hollanders, under the Cheek. notion of Hamburgers, with three Ships new trim'd up for the King of Spain's service; a Boatfwain of one of these Ships hapned in company a-shore with some of our men, after a little drink the Hollander began to speak of Religion, upbraiding our men for their wearing a Cross, and after a little more drink became quarrelfome; and that Sacramenta he would not wear a Cross, no the Divil take him, repeating this often, one of our men beat him down and fell with him, kneeling upon his breast, holding his head down, he draws out a knife sticking in his Sash, and cuts him from the Ear down towards the Mouth, then from under the Eye from that Cheek-bone to the nether-Jaw, now faid he you shall wear a Cross that the Devil do not carry you away. I was fent for from the next house as a friend to the Cause, and drest him; I brought

the corners of the Wound close together and even by stitches, then a stitch in each of the slits brought the Lips of the wound together, then dreft him. fprinkling a little Pul. Galeni finely powdred, which we always had in our Pockets, over this a Pledgit with some Emplastick Unouent, so with a Compress spread with a mixture of the same powders, cum Albumine ovi over the wound, bound him up, he keeping temperate the first three days, feeding only upon Bread and Bear boiled together, with a piece of Butter and a little Sugar init: The next morning he was let bloud, and the third day after I took off the dreffings, and finding the wound as it were agglutinated in the slits, I cut out the stitches, and sprinkled the wound as at first, drest him up with Pledgits and my Empl. e Bolo. with Compress and Bandage; and the second day after drest him again, and cut out all the stitches, and in a dreffing or two more he was cured, the flitches brought close together, any thing of a drying quality without acrimony cicatrizes; thefe, your Suture does all it felf, if the part be defended from influx of humors: The Patient was well pleafed with his cure, though there remained some marks of a Cross.

Some of these kind of people wearing them with much pride in their Faces, as marks of their courage.

CHAP. VII.

Wounds of the Limbs.

Sign

Ne of our Mariners abroad in Spain fighting Observ.t. a-shore, was thrust into the outside of the Puncture Arm, through the Biceps with a Rapier: A Chi- of the arm. rurgeon in the Town feeing him bleed much, stitcht the wound with the Glovers-stitch close, and applied over all his restrictives, and rouled up the part well: After three or four days, the Patient belonging to our Ship, came a-board, and being in pain defired me to drefs him, the Arm was swelled and inflamed a little, but did not bleed. I cut the stitches open, their issued out a bloudy Sanies in some quantity, and after followed a digested Matter; by fearch with my Probe I found the wound wanted little of passing through; I Embrocated the wound, and drest it up with a short Tent with my common digestives, to see whether it would by good Bandage and the help of Sarcoticks Incarn, but it would not; whereupon I passed a Seton-needle through, and that way discharged the Matter, and after that Apertion was digested, I dilated it, and kept a Tent there a few days: In the while, the upper part of the wound healed up, and the wound below digested well with little

little Matter. I also healed it up. This I insert, not that I approve of stitching Punctures, but this way without stitching wounds, in a good habit of body, by good applications and Bandage, does sometimes agglutinate them in a few days, when drest by Tents they are of longer and difficult cure.

Wound in the Thigh.

While I was in the King's fervice in the time of Observ.2. the War in the West-country, I was fetcht to Captain M, who in fighting a Duell was run through the Thigh, with a broad fword; I was also fetcht at the same time to the other, I hastily drest this Officers Thigh, with Pledgits spread with my Agglutinative, and some Astringent powders mixt with the whites of Eggs, applied it over both the orifices, bringing the Lips of them close, and with Compress and Bandage rouled it up, and left him to go to bed; from whence I went to dress the other, who had many little wounds, as his fingers, hands, and head cut. At my return I visited my Patient, whom I found in his bed with little pain: the second day after I drest him again, and finding all in good temper without pain or fwelling, I drest the wounds as before; well satisfied that his wounds would heal up by agglutination, there being little or no Matter, pain or swelling: If it had appeared inflamed with tumor or pain, I ought then to have kept the Orifice most distempered open; and if they had both suffered, to have kept them both open with small short Tents, drest with the common digestives, and have let him bloud, and have proceeded as in a body ill-disposed; but there was no need, there was only required a quiet position of the part which he submitted to.

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was happily cured in seven or eight days. This was truly performed by the Balfam of his bloud, I neither bleeding nor purging him in the time of his Cure or after.

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A person wounded in the in-side of the Arm, the Observ. 3. fword passing over the joynt, and through the A Wound out-side of the Arm, he was first drest by a Chi- inthearm. rurgeon near the place where he was hurt; he bled much. The next day I opened the wound in the presence of Dr. T.C. one of the Kings Physicians, I found the wound Tented at both Orifices, the Arm swelled, and a little disturbed, as wounds in that place are subject to be, when the bloud is shut in by Tents, and not dreft rationally by refrigerants and aftringents, and good Bandage. The swelling most between the two orifices, and was from bloud choak'd in the part, which was now more straitned from the influx of humors, so not likely to yield to other than suppuration; yet we foment the wounded parts with discutients and dissolvents, and keep both the orifices open with small Tents dipt in the common digestive, and Embrocated about the wound with Ol. Rof. & Gutt. aliquot Aceti, and over all my Empl. è Bolo, rouled it up : the third dreffing there appeared bloud from that orifice in the in-fide of the arm, which I fill'd with Precipitate and a dosfil upon it, then drest the parts up as before. This time I acquainted the Patient with my thoughts of opening the swelled part, between the two apertions; there being no likelihood the Matter there could discharge it self by either of these openings, yet it was not safe to heal them up. wherefore I proposed the opening of that tumor by a little Caustick, after a day or two D. C. was acquainted

acquainted with it, and it was opened as was afore proposed, and a corrupt Serum was discharged: from that time I threw my Tents out of the wound, and healed them up in four or five days after, and as the Escar separated and the Ulcer digested, I cured that in few days. That the bone was bare under the tumor, may I suppose yet be felt from the Adhesion of the musculous sless to that bone.

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Observ. 4. Wound in the Leg.

A person was wounded in the out-side of the Right Leg, below the Gartering-place, the wound running upward; after fix weeks dreffing by the neighbouring Chirurgeons, the part being much disturbed by a flux of humors, I am call'd in; I find the wound finuous (fome two inches) undigested, and inflamed with a tumor about it upward; the small of the leg and foot Oedematons, the whole member so weakned by the influx of humors, that it was neither able to affimulate its aliment, nor yet to refift the crudities that fell upon it, fo would be difficult to cure; as all fuch wounds are where the Patient is ill ordered, as to his diet and dreffings in the beginning of the difease: I propose in order to the cure to diffipate this flux about the wound, and to digest the wound by Lenients, to mitigate inflammation, and to discuss and breath out that pituitous tumor on the foot and parts about, and with the help of good Bandage to restore the tone of the parts, and then if this sinuous Ulcer yielded not to agglutination, to lay it open: To which end I proposed a fomentation of Summit. Absinth. Scordii, Flor. Rof. Rubr. Chamom. Sambuci, Bacc. Myrtillor. Balauft. Nuc. Cypress. these boiled in Aq. Font. adding Vini Rubr. thij. and some Spir. Vini; with this I foment the parts,

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and dress the wound with Ung. Basil. Mag. adding Precipitate to it, and Embrocate the parts about with Ol. Ros. cum Aceto, over this I applied Cerat. Galeni, and over the Oedematous tumor below, Empl. Diacalcith. p. ij. Empl. Stiet. Paracels. p. j. and over all these a good Bandage, not opens ing the Oedematous tumor more than once a week, and then to give a breathing to the part. The wound I continued to dress daily as I had begun, and happily freed the part from inflammation and influx of humors: But the wound would not digest as I desired, wherefore I laid it open a little more than an inch, and drest it up with dossils spread with the same medicament as before, and incarned and cicatrized it in three weeks or a month after, but not without some difficulty, and the help of a strait Stocking. This person had been long kept in his chamber by this wound, and now fupposing himself well, he rides to his Country house, unknown to me, seventeen miles off, but that night his Leg swells much, the Cicatrix scarce confirmed breaks out again, with great excoriation and inflamed redness. Thus this Gentleman returns again to his house, and sends for me. To allay this pain and inflammation, I foment the part cum decoct. Malvar. Violar. Plantag. Solan. & Flor. Rof. Rubr. and laying a fine Lawn wet in a folution of Troch. Alb. Rhasis made in some of the same decoction. I also dress'd it with Ung. Alb. Camph. over this Lawn, and spread some of it upon the edges, lest the Matter should be shut in by the Lawns adhesion to the Lips, and the fretted Cuti-Meula raised more up. Thus I dress twice a-day, and keep the Leg upon the bed; after some few dreffings, that the heat and acrimony were allay'd, then

The in the place of the former Unguent, I apply Ung. Tutia Mag. Vigon. and dipt the Lawn in a decoction of Fol. Plantag. Summit. Rubi, Equifeti, & Flor. Rof. Rubr. to which I added some Lapis Calaminaris, Tutia Com. Cervi ust. & Calx lota pul. ostrear.combust. this was set in Balneo, and afterwards strained out, and applied upon Pledgits over the Lawn: Thus with much difficulty I cicatrized this wound and Ulceration, which at first possibly might have been cured by the way of our ancient Masters in few days.

CHAP. VIII.

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Wounds of the Breast.

Ounds of the Breast are penetrating or not, if they do penetrate, then we are to consider the depth, whether it be only between the Mediastinum in the hollow cavity of that in the lower part of the Breast, or if it pierce into the cavities of the Thorax, or what the parts are that be hurt. How the Breast is circumscribed, with the symptoms of each part when hurt, you may find in the Treatise of Gun-shot.

The figns of the wounds penetration are discovered by the proportion of the searching Candle or Probe,

Probe, which enters into the Cavity; you may also when it penetrates the cavities of the Thorax Signs of perceive it by laying a Down-feather upon the penetrawound, or by holding a lighted Candle near the wounds. wound, the Patient holding his breath the whilest; in this case it will move the feather or flame, if it do not blow away the one, and extinguish the other; as also the Air makes a noise in its issuing forth; fometimes it's discovered by the quantity of bloud discharged by the wound or mouth, or both with difficulty of breathing.

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Column 6

Wounds in the hinder part of the Thorax are Prognoreckoned dangerous by reason of the Nerves and stick. Tendons, and if they penetrate that way, there is another danger from the great vessels of bloud which are nearer to the weapon in this case, than in those wounds which are made forward. Yet all wounds in the Breast are dangerous, by reason of the bloud that falls down to the Diaphragma and Corrupts.

If the Lungs be wounded deep amongst the great vessels, though they escape the first nine days, yet they commonly terminate in a Pthisis or Fistula.

A Wound in the outer part of the Breaft is cured Cure; as a simple wound; if it penetrate, you are to endeavour first the restraining the bloud, then that the extravased bloud be discharged, and that either by the mouth by expectoration, or by the Wound, or by Urine.

The way by Urine Fab. Ag. Pend fays, is by a branch of the Azygos, which, faith he, paffes near the Diaphragma, by the Spine to the Emulgents. Those that own the circulation will hardly allow of his Hypothesis; however if the matter of fact be true, that there is sometimes a discharge by

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Urine, which I confess I have not yet observed in my own practice, it will be reasonable to propose as he doth: In this case Diureticks, as the Decoct. Capill. Veneris, Polytrichi, Rad. Petroselini, Beton. Apii, Fanicul. Asparao. To prevent inflammation, Ptisans with Ol. Sulphuris, Vitrioli, Barly-creams, Emulfions, &c. The Ancients gave Acetum with warm water for dissolving the concrete bloud, and restraining the present flux.

The fecond way is by Expectoration, & thereto our Decoctum pectorale, Lohocs, Syr. Capell. Ven. Jujub. Glycirrhiza, Oxymel. &c. whereof our Pharmacopeia Lond. is full. This I have mentioned for their fakes who cannot have a Physician; but here I leave this work to them, these cures consisting much in their well ordering and prescribing internal Remedies, and content my felf in the dreffing of the Wound, as it appertains to Chirurgery. In the the wound treating these Wounds there is a question, whether the Wound shall be kept open, or agglutinated; they that are for a speedy agglutination do

urge it, lest the external Air corrupt parts within,

and the heat expire: they that propose the keeping

Whether is to be kept open or not ?

> them open, do design thereby a readier discharge of Matter; for, fays Aq. Pendens, if the Matter be to be discharged by Urine, it must first pass into the fubstance of the Pleura, then into the Vein Azygos, fo into the Emulgents, then to the Kidneys, and through the Ureters and Bladder. If by Expectoration; then it must also first pass into the substance of the Lungs, then into the Aftera Arteria or Weazond, from thence cought up by the Mouth.

The Authors judgment.

In my practice in these Wounds of the Breast, I conficonsider the wound how it is capable of discharging the extravaled Bloud and Matter, if it was inflicted so as that the Bloud or Matter may be there discharged, then it is to be kept open, the wellfare of the Patient depending mainly upon the welldreffing and governing it; but if it do not lye well for evacuation of that extravaled bloud, then it may do hurt, so ought to be healed up.

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A person of about 23. years of age, of a good Observ. 1. habit of Body, wounded into the Breast, upon which followed immediately great effusion of bloud, almost to the exhausting of his Spirits. Mr. R. Chirurgeon, and my felf, were prefently fent for, we find him lodg'd in an Inne near Fox-Hall, we view'd his wound, it was four fingers above the Cartilago ensi-formis a little to the left fide: we laboured under a small pulse, fainting often: Dr.w. & Dr. Wed. came in while we were providing dreffings, the wound was large and pene- How to trating, we made a fost Tent with a thread fastned order to it; which in these wounds you must be sure to Penetrado, lest you lose it in the body : This Tent we dipt ting in a mixture of a powder composed of Bol. Armen. wounds of Sang. Dracon. Thuris, Mastich, Go. with a new-the Breast. laid Egg and a Pledget spread with the same over in the all, with Empl. è Bolo, and Compress with convenient Bandage. The Phycifians prescribed such things as restrained the bleeding, and were proper to resolve the concrete bloud, and withall to relieve his fainting spirits: that night he rested ill. the next day when we met, feeing him labour under great disticulty of breathing, with pain above the Diaphragma, his Pulse quick, little Urine, and that high, we agreed he should be let bloud prefently,

fently, which was done accordingly in the left Arm, the bloud flowed with a quick stream, we took about fix or seven ounces, a meer Serum, but the Patient was relieved by it; we took off our dreffings to look upon the wound, whereon we found some bloud and Sanies discharged: we then drest him with Terebinth. Lot, in Succo Lamii adding some of the former powders with Vitell. ovi, this upon a Tent as before, with an Emplaster and Bandage over: Thus we continued to dress him, until we fee the bleeding ceafe. In wounds within the body, I have always endeavoured to preferve the native hear of the part, and further the discharge of Matter from within, by keeping the wound open, until it leffened, and the ill fymptoms went off; but shun the casting in of liquid Medicaments which are not eafily to be gotten out again, they commonly proving very destructive. Here the Physician is to act by Internals, we only to affift by keeping a way open, if it may be, for the discharge of what is extravafed and corrupted within the cavity, and commit the cure to Nature. In this Person here was a great effusion of bloud upon the receipt of the wound, and the orifice large to difcharge the extravafed bloud and Matter; the Physicians careful in restraining accidents, and removing what he laboured under; through all which our work succeeded prosperously, so as parts within united; we threw out our Tent, and by Sarcoticks cured this wound without, and the Patient was restored in few weeks to perfect health, and continues fo.

Obseiv.2.

Another person was wounded into the Breast below the fourth Rib on the right side, coughed up much

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much bloud at times; Sir Fr. Pr. was his Physician, he prescribed him Ptisans, Pectoral decoctions, &c. by which, and by often Phlebotomy the fymptoms went off, the wound digested, the Patient rambled abroad, and was cured by fuch dreffings as I left for him at his Chamber, I feeing him no more until he was wounded again,

Another wounded in the right Breast, coughing Observ. 3. up much bloud, with great pain and difficulty of breathing, I took away ten ounces of bloud prefently, and ordered him (it being then night) fome Syrup de Meconio & Jujub. in a draught of Aq. Papaver. with a few drops Sp. Sulphuris, he slept well that night; against the morning he had the Decost. Pestorale (the hotter herbs left out) and it I sweetned with Syr. de Ros. Sic. & Jujub. with Sp. Sulph. this he drank in the morning, and at other times as he lifted; by his diforder, he cought up bloud at times, and I let him bloud as oft, in the while I kept his wound open and digested: Upon another relapse I began to be sick of him, and perswaded him to send for a Physician, Sir Ed. Graves was call'd in, who see his wound almost cured, we agreed and let him bloud : and from that time he continued well.

A person run through the Body the breadth of three fingers under the right Clavicle, and out be- Observ. 4. low the Scapula, was first drest by the Chirurgeon near the place where he was wounded: I found him in his bed faint and weak, but without pain or difficulty of breathing, Dr. Bacon his Physician: The next day I met him and Mr. Sh. Chirurgeon to his Highness Pr. Rupers. The patient had rested very

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ill the preceding night, had bled from his wound in his back through the bed, and fowled many Napkins that night in coughing up bloud, we took off the dressings from the wound in his Breast, from whence there was bloud discharged, and more came out in the dressing: I drest up the wound with a short Tent dipt in a little Terebinth. with Farina Volatilis, a few of our Agglutinative powders cum Vitello ovi, with an Empl. Diacalcith. over it; the other wound under the Scapula was painful, but so small as it was not reasonable in our judgments to keep it open; we laid a Pledgit of the fame mixture with an Emplaster upon that, and drest it no more; this method of dressing I continued, and let' the Patient bloud: The third day he coughs up bloud, and some little issued from his wound for a few days; after four or five days I waited upon him to his lodgings in London, by the way he cought some bloud, and so more or less day and night; but by the care of his Physicians it lessened, his wound digested, and I now kept in it a hollow Tent made of a Sparadrap, which was composed of Resina, pini, Gum. Amoniac. Bdelli. Galb. Terebinth. & Cera, with Pul. Ireos, dipt in a little Mel. Rof. Rubr. This way of dreffing I continued until the coughing of bloud diminished from twelve Napkins in a day and night, to ten, eight, seven, four, two, one, and but one Napkin in a week, and after that in a weeks space I see no bloud one way or other, nor any fymptom of ill. I then call'd in his Physicians together, and severally, and had all their positive judgments for throwing out the Tent, and healing up the wound: I did so, and in a week more cured him; five days after, or thereabouts, he sent me his thanks by his Tervant;

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fervant; and within few days after I made him a visit, and there met Dr. Willis, who enquiring of me whether his wounds were cured, I defired that person that he would shew the Doctor whether they were or not, he presently stript himself of his shirt, and shewed the Doctor; who both see and felt their scars, and replied they are well.

A young man wounded in the Breast, labouring Observ. 5. under very great pain and difficulty of breathing, with a cough, fent for me late one night, he shewed me some little bloud he had then cought up : he had been wounded the night before by a man standing at a door some steps higher than himself, as it were over him, thrusting his Rapier from within the breadth of two fingers of the right Clavicle downward into the Lungs, the Patient run into that house bleeding much, and was seised with such difficulty of breathing, as he was forced to stretch his arms at length over his head, without which doing he could not breathe; he had been let bloud twice, and prescribed Ptisans, &c. But for all this he was little relieved, I presently let him bloud about ten ounces, and ordered the Apothecary to give him a draught of Aq. Papaver. with Syr. de Meconio & de Ros. Siccis, with a little Aq. Cordial, frig. Sax. and against the next morning to fend for a Physician to meet me, they did so; when I came in the morning, I found the Patient marvelloufly relieved, and refolved to remove his lodging, which was now by Scotland-yard to his own in Wildstreet : in the presence of his Physician Dr. St. I took off the dreffings, found his wound small and shut up from within, but not skin'd, and if it had not, yet the wound within

was fo much below this without, as it was not capable of discharging the Matter: So this was not worth my attendance, the wound within was the work of the Phylician, however he continued me with his Physician, and we agreed to bleed him again; we did so, taking away about Zviij. of bloud, and the Physician proceeded by Clysters and Internals proper in his case: That afternoon the Patient, unknown to me, pursued his intention of removing to his old lodging in Wild-street, where going up three pair of stairs to his chamber, he relapst into the former difficulties of breathing with pain and coughing bloud, and in the morning after where I met his Physician, the Patient seemed to me quite tired, labouring under great oppression; and by his pains about the Diaphragma and Back there was suspition of extravased bloud; to relieve him there was a necessity of taking away a little bloud; we took away some four or five ounces, and proceeded with Embrocations, Lohocs, Pectoral Decoctions, &c. and got off this difficulty in five or fix days, then I left him : But after that, by disorder he relapst again, and was freed again the same way by his Physician, and since holds well, but I never fee him fince.

The Authors ob-Iervation concerning the dilcharge of of the Breaft by Urine.

Of all these wounded Patients, and many more I have helpt to cure, I never fee one that I could fay passed their disease by Urine, nor many of them that passed their Urine well during the time of their lying under these wounds; nor have I often feen them who recover, expectorate any fuch quanthe Sanies tity of Matter, as might be thought to proceed from the great quantity of bloud extravalated: They cough fresh bloud most of them, like to what

they discharge from their wounds, but more florid. Those who do cough great quantity of Matter from these wounds made by a sharp Weapon, or avoid it by their wounds, do seldom well: They usually terminate in a Tabes, with or without a Fistula: Yet by the ninth day one may truly predict their present recovery, if all things have been rightly administred.

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CHAP. IX.

Wounds of the Abdomen.

Man wounded with a Rapier into the belly, Observ. 1. through the Right Hypocondrium out to the side of the Back, is brought to my house one night to be drest, he had bled much; I considered the wound, see it had past through, the orifices were, fmall, little advantages to be made by keeping them open, yet I put in two small Tents dipt in a little Digestive & Terebinth. & Vitell. Ovor. and drest up with Empl. e Bolo, and a Bandage over, and advised him to go to his bed and keep quiet, I gave his friend Zvj. Syr. de Meconio, mixt with a draught of Aq. Papaver. with a little Cordialwater for the Patient to take in bed: The next morning I found him hot, and his Pulse a little disturbed, but without symptoms of any part of the Viscera

Signs of Vicera hurt by a wound of the Abdomen.

Viscera wounded within: neither Tension of the the inward Belly, Collicke, Vomiting, or ought by Urine or Stool. However I Let him bloud about 10 ounces, and ordered him to keep his bed, and a Clyster of Milk in the afternoon with Sugar, and at night his haust us again. The next day I opened his wounds, and confidering here was no Symptome of hurt within by Urine or Stool, nor Tension nor Swelling, only the wound a little heated by the Tents, I threw them out, and dreft both the wounds with pledgits fpread with the fame digestive, Embrocating the parts with ol. Rof. dreft him up as before, and defired him to keep his bed fix or dayes. Two daies after I dreft him again and found all well, with Inclination to cure; from that time I drest him no more, but ordered him to keep a spare diet, and to lie quiet in bed, and if there were occasion I would see him again: my servant dreft him afterward, and before the feven days were expired he was well and walkt abroad of that wound. complaining more So I have happily fometimes cured fuch wounds through the body; in this wound here was no confiderable part toucht, yet if the wound had been kept tented with long tents, they might have stir'd concerning up inflammation, or so the Air might have altered the ill use the parts within, or the Matter offended them, whereby putrefaction, Collicke and Ill accidents would have followed: But what could the Chirurgeon have advantaged the Cure of his Patient, if bloud had extravalated within, by keeping such little wounds open? Yet if it be not done, he's usually condemned by the common Vogue; therefore it is, that against their own Judgments they keep them tented often to the ruin of their, Patient.

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If in these wounds of the Belly the small Intestines be wounded, there follows a continual vomiting of Choller with Griping, and death within few daies; Signs of the if in the first dressing these wounds a Chirurgeon gutts should propose a cutting open the wound, to seek wounded. the wounded Intestine to Stitch it, the friends would Of opennot permit it, nor in truth have we Authority or ingthebel-Example for it, so we have nothing to do but ly in Stitch up the wound, and refer the Cure to Inter- wounds of the Innal remedies, yet at last when he is dying, they resines. will wish we had attempted it. In the great In- Cure of testines where they are fleshy, if the wound be wounds of not great enough, you are to enlarge it and feek great Inthe Intestine, and stitch it up with the Glovers stitch, and cleanse the Bowels from the Excrements, and sprinkle the Sutures with some of your Incarnative powders, and reduce them to their places, and stitch up the belly, as you shall see presently: you are in these cases to give your Patient Clysters made with Chicken or Veal-broath, wherein Barly flor. Ros. rubr. Chamom. hath been boyled, adding the yolks of Eggs to it, with Mel. Rof. & facchar. Rof. an. 3j. and Internals fuch as are glutinative, as decoct. plantag. Equesiti, pimpinella, pilosella, Rad. Consolid.ma. these sweetned with Sugar of Roses, spec. diatragacan, conf. Cydon. Conf. Ros. rubr. boli. Terra, sigill: their diet must be sparing, drying and agglutinative: they must be Let bloud, and after some days their Clysters must be agglutinative and often repeated. After this manner the wounds of the Viscera are to be treated, only in them you are to keep the wound open in some declining part, whereby they may be drest if occasion be, and discharge their Matter. If a flux of bloud happen as in wounds of the Liver and Spleen,

the Ancients commonly commend fuce, piloselle, pimpinell, plantag. Pologoni; with pul. Bol. Terr. figill. Sang. Dracon. Thuris, and such like mixt, and put in by Tents, and after the like mixt with fir. Rof. suc. and parts about Embrocated with ol. Ros. Mirtyl. & Empl. Diacalcith. over all, or a Cataplasme ex farin. Hord. fabar. flor. Rof. Rubr. coct. cum hydromelite and treat them by Internals as I have faid, fuch as are agglutinative, exficcant and detergent, I refer you to the treatife of wounds made by Gun-shot, where you shall see their various Symptomes and way of Curing.

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A wound in the Abdomen. Observ. 2.

A Man wounded and brought to Lambeth fent for me one morning early, he was wounded transverse the belly a little below the Navel, on the left fide the Omentum, and Intestines thrust out, and kept close with a Hankerchief in his hand, I fee parts fresh; the Omentum or Call much out, but not altered. I caused warm cloaths presently to be held upon them very close, and the Patient to be laid low with his head, his Hips raised up, and by the help of his friends raising them up and shaking his body, I reduced them. Then they leaving his Hips high, and he declining with his body on the Right fide, by the help of one preffing with his hand a little above the wound (by which the Lips of the wound were a little turned upward, and the viscera kept down;) I with a strong Needle a little crookt at the point with a strong Thread feared take hold of that lower lip, and near the end past my Needle first through the Peritoneum, and then on the opposite side through the flesh and um in this skin, leaving the Peritonaum, and so go along passing the Needle from without Inward, till I

fewing the Peritonecale.

fewed up the wound which cannot be very close, then I pulled the stitches as close together as I could, and What to fastened my Thread. If any part of the Omentum have been had been altered in its Colour, I should have tyed done in it hard and cut it off, and placed it with the Thread case the hanging out, and fo I would have ferved a great Omentum had changpart of it, if I could not have reduced it, I having ed Colour. done so heretofore often; but if the Intestines had been so swell'd, as by no way of fomenting or po- What if fition I could have reduced them, I ought then to the Inhave cut the wound more open, but these were were swel'd easier reduced, and the wound stitcht. I then sprinkled them with pul. Aloes, Colophonia, Sang. Dracon. Mastic, sarcocolla, Bol. &c. and over them pledgits of my Incarnative, and with some of these powders mixt cum Albo ovor. to strengthen my flitches, I applyed them upon a cloath over all, and with compress and a strong Towel bound all fast, then after a while let him bloud, and ordered him to ly quiet upon the well fide, and to a spare diet, and to keep his body foluble by Clysters: every other day I dreft him after the same manner. and after the wound feemed to be Cicatrized, and that my stitches began to fret. I cut them out the Eighth or Ninth day, and after with the continuance of my farcoticks, I cured him very well. Thefe wounds are not subject to great Inflammation or defluxion, but by reason of the fatness and thickness of the Lips, and manner of sewing, 'tis a troublesom work; and yet if they be not so stitcht as the Peritonaum and fleshy parts may unite together, a Rupture follows to the great trouble of the Patient, and shame of our profession: the Peritonaum bears a great stress, therefore you must be sure to take good hold with your stitches, and

and if you doubt their holding, make dry stitches over them and good Bandage.

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Of Wounds in the Head.

Ounds in the Head according to Hippocrates and our daily experienced are full of danger, how slight soever they may appear to

a common eye.

In this discourse I propose to write of them, not only as they are made by cut, stab, or bruise, but also of those made by Gun-shot, and so by Anticipating part of the discourse next ensuing, to give you the full doctrine of wounds of the Head made by what Instrument soever without the necessity of suture repetitions, and that you may understand the Basis whereon these cures are wrought, I shall represent the head to you as it is framed.

Parts of the head considered.

The Head according to Galen, de usu part, is the noblest Member of our Body, the principal faculties being there seated, for the use of which it was ordained: and is so contrived as to be the sountain of the Animal spirits, and also to contain the principal Organs both of the Internal and External senses.

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In the first part, the hairy scalp presents it self The Hairy to our eye, and therein is to be confidered its Scalp. Thickness, Sense and Vessels, with the Muscles that lie under it. The Hairy Scalp is thinnest on the top of the Head, nor is there any Muscle between it and the Skull in that part, unless you will call the membrana carnofa a Muscle, (which some men of late do, and possibly not improperly;) and here the rather, because by it many men move the whole Scalp. If you doubt of a fracture there, you may boldly cut into the Hairy Scalp, it is of an obtuse sense and easily healed up again. But be cautious how you make your Incision in the Forehead. forehead, where a transverse Incision may cause the Eye-brows to fall over the Eyes; therefore if you are forced to make Incision, let it be according to the length of the Fibres, and avoid the vena frontis, lest its bleeding disturb your work. And be careful that you make no Incision upon the Temporal Muscles, for thereby Convulsions and Temporal other ill Accidents may happen.

Under the Hairy Scalp lyes the Pericranium, Pericraniwhich we are to cut through, in making way to wm. the Cranium; you are to raise them both together when you lay bare the Cranium for the use of the Terebra; for if in perforating you tear this Membrane, Inflammation and Fever may follow, the Pericranium arising from the dura mater through the Sutures; by which continuity that may also partake of the Inflammation.

The Cranium follows, which is a Bone com-Cranium posed of many joyned together by Sutures, of and Suwhich

which there are five concern us Coronalis, Lamb-

dvides, Sagittalis, &c. two false ones. In perforating the Cranium, you are to shun these, (if you may) for through them the dura mater passes, being continued unto the Pericranium. The Sutures divide the Bones of the Cranium, by which one part of the Cranium may be preserved entire while the other is broken, which otherwise would be in hazard; These Sutures are weak in resisting Blows, and upon them also Matter may be easily contracted and make a Caries the fooner, and fooner worke through to the brain than in either parts of the Skull. It is necessary to know them well, lest as Hippocrates well cautions, you take them for The way to Fissures. The way of finding them is, by passing one string from ear to ear, and another from the Nole to the Crown of the head; the former of these shews you the Coronal Suture, the second the Sagittal, which usually begins at that point where these lines intersect, being the part where we make Fontanels, and reacheth to the Crown of the head where the Lambdoides begins; sometimes it beginneth quite at the Nose. The Lambdoides begins at the end of the Sagittal, and goeth forked down the two sides of the occiput: of the Sutura notha: the two chiefly to be regarded are the Squamofa. which run under the temporal Muscle of each side, round about the outermost verge of the ear.

Thickness mium.

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Sutures.

You are also to take notice that the Cranium is of the Cra- thinnest in the middle part of the head, and thickest in the hinder part, and of a middle thicknels in the fore part: Hence it is that wounds are most dangerous in the Crown of the head, where the Skull by reason of its Tenuity easily communicates its hurt to the brain, and also for that the upper

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part of the brain lyes there high, one of the largest Sinus being immediately under the Skull, and many Capillary veins running to close with it, as to make themselves Trenches in the Internal part of the Cranium: Wherefore upon a blow or concussion in this place, the veins may easily be broken, and the bloud extravased between the Cranium and dura mater, and ill Accidents follow.

The dura mater, a strong Membrane, is placed Dura mater under the Cranium, which being wounded is atterded frequently by Palsies, and in progress of the distemper by Convulsions and other ill Symptoms; and the greater if wounded in the middle part of the head according to its length, there being many Vessels, which if they chance to be cut, will fill the vacant space between the Cranium and dura mater with bloud.

The Pia mater lies upon the body of the Brain Pia mater.

To close, that a wound cannot be made into the

Pia mater and the Brain escape; and from its many

veins a flux of bloud must follow.

The Brain lies under the Pia mater, in whose Brain, whose Brain, whose Basis ly large numerous branches of Arteries and Veins, which by great blows of the shead may be broken.

From the Description of the head we shall pro- Wounds of ceed to the Description of its wounds, which are Brain. Strictly so call'd, when any part of the skin, slesh, bones, membranes or brain is either cut or torne, or when more of these are hurt together.

Contusions and Concussions do not truly belong Contusions

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young Chirurgeon, I shall say something of those also, and shall treat of all these things by the following degrees.

First, there may happen Contusions, or great: mod and violent Concussions of the Brain from a blow, fall, &c. when there is no visible wound either in-

ward or outward.

Sometimes this Concussion is accompanied by a first a ruption of the Vessels of the Meninges. Sometimes a fissure of the Skulle or a spill broken off the from the inside of it, &c. the skin all this while

remaining whole.

Other while the wound begins on the outside: being made by Sword, Bill, or Bullet, &c. and the either goeth no further, or else penetrates sometimes to the Skull, sometimes into the first Table, sometimes through both, or yet further through the dura or pia mater, or into the brain it self.

Some are meer cuts, others contused wounds, and in Gunshot, the very outward parts of the head, as hair, skin, flesh, bones, &c. are often driven by the violence of the Bullet into the Brain it.

felf.

Of Fissures some are directly under or near the place of the Blow; some on the quite contrary side, and are called contra fissure.

Signs. Celsus in his 8 lib. & 4 ch. gives you the signs; when you are call'd to such a Patient, presently saies he, you shall enquire num vomuerit, &c. whether he vomited, or was stupisfied at the first receipt of the Blow or Fall, or a Resolution of the Nerves followed, or torpor, or delirium, or raving; these shew the Membrane of the brain affected, and the Patient in great danger.

But

But if none of these were, you may then dubitare man os fractum, doubt whether the Bone be broken:

The tron, or Lead, that he was hurt withal, and with what force the Blow was given. But if there be a mound, nothing is more sure than the singer or Probe; if it feel smooth or slippery, the Cranium is safe: But if you feel any Asperity or roughness, if it be not the Suture, then you may be assured of the Patients Teeth, or biting of a Crust, is mentioned as a sign of a Fracture, but this way is very uncertain: To find hair cut in a wound may be a sign, if you consider, no small force will cut a mair there.

If by your Probe you make no discovery of the similare, and yet the Symptomes be grievous, then ay it open, and if the Fissure do not then appear, ub the bared Cranium with Ink, and wiping it off gain, you will see the Ink remaining only in the

Fissure or crack, then Rugine it.

If no breach of skin appear, you must consider he outer side, numquis locus mollior sit, & tument, umque aperire; whether any part be softer and well, which you must open and see whether there be any Fissure, nontam magno negotio, cutis sanescit tiams frustra dissecta est, it being no great matter o heal it again, though it should be laid open in rain.

In the Prognostick, wounds by much how nearer Prognohe Brain, are so much the more dangerous; the sticks.
lolution made by Incision is of less danger than
hose made by puncture, this of less than those
nade by Contusion; and those of Gun-shot worst

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of all wounds. In the middle of the head most dangerous, the hinder part least dangerous, the fore part of a mediocrity between both, it having passages near for discharge of its bloud and matter: Wounds of the Sutures are dangerous, but those are more or less as they fall into good or bad Chirurgeons hands, and as the Patient submits to the method of cure. A simple wound by a Blow hath been through ill Chirurgeons, &c. the cause of much danger, that in skilful hands would eafily have been cured: All wounds fave those of the Brain are curable, if the Chirurgeon be timely call'd in, and that it be discovered in such place where he may lay open fafely.

Contusions

We begin with the cure of Contusions of the Calof the head. varia, where the outer skin is whole, yet with great attrition of the Musculous flesh and membrane underneath; which often happens from blows or Falls, and are fubject to great pain, tumor, Inflammation, and Apostemation, &c. caused through the Ill habit of body, or untimely applications, therefore it requires your special care in the first place to prevent the afflux of humors and pain. which is performed prefently in the beginning by repellents and aftringents, which are to be often renewed, left they heat the part affected. You are in the first place to shave the hair, if there be any then Embrocate with ol. Rof. & myrtil. cum aceto. and apply this or fuch like over the contused parts. Re farin. hordei, fabar.an. Zvj. pulv. Nucis, Cupressi, balaust, Alum Roche, Ros. rubr. an. 3j. ol. Ros. 3iij. Alb. ovor.nu. ij Aceti q.s.ft. Cataplasma. You are to make your Bandage over this, to further the expulsion of the ferous humors from the grieved part, therefore your Bandage begins there, and termiterminates where it may refift the Influx; then

bleed, &c.

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The fecond day you are to foment with Red wine, wherein hath been boyled flor. rof.rubr. Bacc. myrtill. fol. beton. & flor. Chammol. and if much pain Embrocate with ol. Rof. & Chamom, or decost. beton. rof. rubr. Rad. Althe. sem. Lini, fenugraci: If after these your endeavours the part affected do tend to Apostemation, you must then use suppuratores, and open it in the declining part, and digeft it as in a Pphlegmon; but if the pain do mitigate, then it will be proper to discuss and breath out the Serosity by such like, Re farina hordei fabar an Ziij. flor. rof. rubr. Bacc. Mirtill. pulv. an. 3j. sumit. Absinthii, fol. beton. flor. sambuci & chamom, pulv. an. Ziij. sem. Cumini, pulv. Zj. mel. Zij. coq. in vino Austero, ft. Cataplasma, addendo ol. Cham. Rof. an. 3j. apply it; then in the next place comes in the use of Emplastr. Vigonis.

If there happen a Concussion from some great Concussion Fall or blow without a wound, we cause the head ons. to be shaved, Embrocate with ol. Ros. & myrtill. cum Aceto, all the head, neck and behind the ears, and apply a Cataplasm with farin. hordei. fabar. bacc. Mirtill. stor. ros. rubr. decocted in Red wine or Oxycrate, adding mel. ros. to it or Empl. vigonis, or such as this which is his and bath been often used. or fuch as this which is his, and hath been often used by me in such cases, Re furfuris Tritici Ziiij. far. lentium Zij. flor. rof. rub. Bacc. Myrtillor. Balaust. an. 3j. Calami Aromatici 3j s. flor. chamomel. Melilot. pulv. an. 3ss. nuc. Cypress. no. 6. pulver. omnia cog. in vino Austero q. s. ad consistent. Cataplasmatis addendo olei Rosati Chamom.an. Ziij. or add wax to it, and make it into the form of a Cerott;

you may make fomentations of the like; you must remember in these Concussions to bleed largely, even to defailancy of spirits, according as the Symptomes do shew to you the greatness of the Malady, and as strength of body will permit, and keep the body foluble by Clysters, also Julips, Emulsions, and what else may allay fermentation of the bloud,

Cure.

Simple inwounds.

In the cure of wounds of the head, if it be a fimple wound only to the Pericranium, the lips are to be brought close together; the stirching these wounds is objected against by some, lest thereby Matter should be pent in, and Inflammation and caries of the Skull follow, but done judiciously; it is safe, if you can satisfie your self that the wound ought speedily to be healed. Abroad I have seen them as commonly, stitcht as other incised wounds, and do my felf in great wounds of the Scalp make a few stitches to keep it close; however you are not to croud those wounds with dossils, but having shaved the hair bring the lips close together, and cure it by the first Intention, vid. Agglutination; as in simple wounds, by Arceus's Liniment or some incarnative, and keeping the lips close by Empl. è Bolo, or with some of your Astringent powders mixt with album. ovor. Thus in a few days all thefe fimple incifed wounds may be cured.

Observ. I. poral Muscle.

In a wound in the right Temporal Muscle, where Wound in the Artery was wounded, I have often stitcht them up without any ill Accident. Smith a Tanner sometimes in Chester, Captain of a Company of Dragoons pickt up in hast to disturb us in our flight from the Battel at Worcestor, was bleeding almost to death, by a wound he received from some of our routed Forces; when I was brought a prisoner to his

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Quarters, I stitcht up his wound, taking the Artery up with the lips and with a little wheat-meal, and the white of an Egg, laid over all upon a Compress dipt in aceto, bound his head up; this was upon a necessity, but this served to keep my stitches close: after two or three days, I dreffed him again, and found all quiet, I now sprinkled the lips with pulver. Thuris, sang. dracon. an. p. eq. and applyed a pledget with Linim. Arcei & Empl. diacalcit. all which I was now supplied with from Warrington; and the next dreffing cut out the stitches, and dreft him up again with the same as before, and from that time he was cured: which was before he had recruited his spirits from his loss of bloud.

In wounds of the head where you cannot cure by Contuled the first Intention, as where the wound is contused wounds, or some part of the Hairy Scalp torn off, there you are to digest with Terebinth, and the yolk of an Egg, I commonly boyl the Turpentine a little to make it thick, otherwise it is too slabby; add a little farin. Hordei, After Digestion I add a little Sarcacoll. Myrrha, Aloes, pul. Ireos, with mel. Rof. by which it serves to deterg, I commonly Incarn with this of vigoes, R. ol. Rosat. 3vj. ol. mastich, Zij. pinquedinis vitulin. porcin. an. Ziiij. fol. plantag. matrisylva, Beton, pimpinella, pilosella, flor. Anthos. an. M(s. vini odorif. cochl. iiij. coq. ad Consumpt, vini in colat. add mastich. Gum. Elemi, Resin. pini, an. 3j. litharg. Auri & argent. an. 3ij. Minii 3x. Terebinth. venet. Ziiij. cera q. s. ft. vng. S. A. or with Lin. Arcei; touching the lax flesh, as I think fit with either of the stones, and by the help of ung. Tutie mag. Lint dry or dipt in fp. vini. Ag. calc. Alum, and prest out, I cicatrize these and all fuch like wounds.

Perieranium laid bare or cut.

If in a wound of the head by Incision the Pericranium be bared, if there be no fissure, you are to keep the Air from it by bringing the lips of the wound close together, that the bone may Incarn: But in these wounds Fabr. ab Aq. Pend. says, and by the authority of Galen, that you ought to Exfoliate the bone; for fays he, it is not likely fo thin a membrane as the Pericranium, adhering to the bone, can be cut, and the bone not hurt; and if the Cranium be but a little hurt, there is a necessity of Exfoliation: In my Practice I have often met with wounds in the head, where the Pericranium hath been cut, and the bone only bare; fometimes also the bone is cut: But if I came into the first dreffing, it hath for the most part Incarned without any difficulty, and the better for the little cut made into it. But where the bone hath been bared by a Contusion, the bone is commonly altered by the Air, or Gleet from the contused flesh, and doth for the most part require Exfoliation; yet in this case I have cured without Exfoliation, but with great difficulty.

Cranium laid bare by contufed wounds. If a Contusion be made by a blow or musquet-shot, when the force is spent, or when the head is armed, if there be no wound or symptom of fracture, or the like, you are to shave the hair off, and Embrocate the part well, and apply over all a Cataplasm, & Farin. Hordei, Flor. Ros. Balaust. decocted in Oximell, adding some Ol. Ros. and let your Patient bloud, and if there be a wound joyned with it, and made by shot or blow, you are to digest that wound as in contused or Gun-shot wounds: If there be not a way for discharge of Matter, you are to make one, that it be not shut

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in, and cause inflammation in Pericranio, and Fever follow. After digestion and separation, you are to proceed to Exfoliation of the bone; for in fuch wounds the bone is Altered, both by Air and Matter. In order to Exfoliation you are to confider, that if the bone were not hurt, it is smooth and flippery, as it were polished, and flesh difficultly grows upon it; wherefore by the Authority of Galen and your own reason, you are with Rugines to make it rough and thin, that you may make way for the Callus to sweat out of it: In this case if you rasp it here and there thin, till you see the bloud ready to come out of it, the bone will thereby be fooner supplied with materials for generation of flesh; but if your Patient will not admit of Rugines, as in children it will not be allowed, then you are to keep your dossils with Sarcoticks close to the lips of the wound, and make your Exfoliation from the edges, that the found part may thrust off the rotten bone; for neither Crabs-eyes, nor any Medicine inwardly prescribed, or wine outwardly with Lint or other medicament applied to the middle of a bone, will signifie any thing to the Exfoliation; nay the while you are fo triffing, the matter from the edges will rot the bone underneath, and in continuance pierce through the first table, and run underneath betwixt the two tables, and do much mischief, and put you upon the use of the Terebra, in the curing of your Patient. If therefore you propose Exfoliation, then according to the Ancients you are to use Rugines to scrape the bone, and after the use of them, the bone requires its proper medicaments, Sarcoticks most drying in potestate & actu, as R. Rad. Ireos, Aristoloch. Rot. Thur, an. prt. aq. in moister bodies Thus alone; I *suppose*

suppose that bones raspt require digestion, and therefore dress it with liniment Arcei, and such like spread upon Pledgits of Lint, and so commonly Incarn them, then proceed with Ung. Tutia, &c. to cicatrize.

Cranium wounded, or fracture.

Hitherto we have written of wounds and contusions of the hairy scalp and Pericranium, and of the Cranium laid bare, as also of concussion: now follow those wounds of the Cranium it self, whether by cutting or puncture, by sharp or pointed weapons, which cannot be without folution of Continuity of the hairy scalp, but by a musquet-bullet thot at a distance, by a fall or blow the skull may be fiffured or fractured, and the hairy scalp whole, and this fracture or fissure under the Contusion, or in some other part: If the symptoms do demonstrate that there is a fracture or fissure, you are then without delay to open the hairy scalp, according as the part will admit, Angular, or in the manner of a Cross, or of the letter T, that the fracture may be discovered by the raising up of the hairy scalp with its Pericranium: For if you shall in doubtful fiffures or fractures make a round Incifion, and take out the whole piece, then if there chance to be no fissure, you have made your felf a long work to little purpose; and if your fissure fun farther than your Incision under the Calvaria, not discovered sufficiently, you are to cut it open that length, by which it will appear you have through mistake laid it open more than was necessary in one place, and too little in another, doing that which neither Hippocrates nor any of the Judicious would ever allow: Whereas if you made it without cutting off a piece, but only raifing the

Against round incisions uponsurmise. fcalp, you might, I say, if reasonably judged, have laid it open, so as you might have discovered the fissure or fracture; and if yet part of the fissure or fracture had lain undiscovered, you might have stretched your Incision to it; and in case after all, there had been no fracture or fissure which often happens, as in counter-fissure, then you might have laid the hairy scalp down again, and easily cured it, which by an excision of part of the scalp you have made, you cannot do.

As to what may be objected, that the raised up Objection. Lips may be troublesome to the Chirurgeon in his work, and are painful to the Patient; there is no such thing; for if the Incision be made the way proposed by the Ancients, and that the fracture or fissure be all in your view, you may order the lips of the wound as you please.

The Cranium laid bare, you are to fill up the place opened with dossills, pressed out of Red Wine or Oxycrate, or a Spunge prest out of either of the same liquors, and apply an Emplaster over all of Diacalcith. malaxt with Ol. Ros. cum Aceto,

and bind it up.

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The next day you are to consider the fissure, if Trial of it be so small, as you doubt whether it be one or not, then wet it with Ink, and wipe it off again, and where the fissure is, the Ink will discover; but if it do not, then this Emplaster is proposed; R. Cera nova flava, Thuris, Landani, an. unc. ij. Farina Fabar. Terebinth. Aceti an. 3j. Misce ad Ignem: you are to apply it on the suspected part, and the next day where it is found moist, that there you are to Rugine.

Fallopine

Fallopius tells us, that where the Cranium is contused, certain spots will appear red, not unlike those white ones which are seen in the nails of the fingers; but after the third day the bloud exhales, and that redness ceaseth: If by the former you difcover the fiffure, or that the bone be contused, you are to Rugine the contused bone, and the whole length of the fiffure; To which purpose and for that use to supply your self with various forms of Rugines: Whilest you are working with them, the lips of the wound are to be covered, that neither you hurt them, nor the Air offend them ; fometimes these very small fissures, how inconsiderable loever they may feem, are the cause of the Patients death, there being often found extravaled bloud upon the Dura Mater, the Veins being broken either by the concussion from the blow, or by the rough edges of the inner table next the Membrane: Therefore you are to consider the lymptoms, and accordingly lay open either by Rugines or cutting into it, so as the Sanies may be discharged, and the Asperity taken away: But if there be a fracture of the Cranium in one or both tables with a depression of the bone and a fissure also, which often happens, you are presently to make a way to relieve the Membranes underneath, for they cannot be without great disturbance and in-Hammation, and a putrifaction will follow, whence those symptoms of Fever, Delirium, Coma, Convultions, Palfies, and Death enfue, if neglected. In this case you are to consider, whether the fisture do discharge the serous bloud or Sames, and whether by cutting that fiffure open, the deprest and fractured bone may not be raised up; if it may, then you are to proceed by inlarging that fiffure, and

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and there with your Levatory raise up the deprest bone, and remove the fragments, and cleanse the membrane from the Raspings or ought else hath soiled it: But if the fracture doth not penetrate so far into the bone, nor there be any such depression or fear that Sanies is detained underneath, then you ought not to perforate the bone, nor expose the membrane to the Air, or more than is necessary; in this your eye and symptoms will guide you.

In order to perforation of the Cranium, the bone Perforatiis to be cleared of its Pericranium, least in setting on. on the Terebra (or Modiolus, which are two feveral names for a Trepan) you tear the membrane. then the lips of the wound to be covered, and the Terebra set on the breadth of a finger distant from the edge of the fiffure, on the fide which is most depending; if it may be with convenience, when you have fet it on, press upon it with your left hand, and turn it round with your right, you must use a little Ol. Ros. or Milk, to cause it move the easier, and as it fouls brush it, in the doing of which it will cool, or you may dip it in water to cool; when you come to the fecond table, which you will know by the bloud that appears, it will be required that you take out the pin & proceed more warily, notliftning to the pratling of the standers by,

but often lifting up your hand, left by your compres-

fion or haste you unawares fall upon the Dura Ma-

ter and wound it. All this while it is fit his ears were stopped, lest the noise disturb him, and the room close. The perforation made in Cranio, and the bones taken out, you are to smooth away the Asperity, which remains in the lower part of the main bone, and this is to be done by the Lenticular in-

strument made for that purpose.

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First dreffing after perforation.

If after this the membrane be fouled by the fawdust, from the bone you are to wipe it off with a little Lint upon your Probe; the part cleanfed, you are to dress the membrane: About this first Application Authors differ, Avicen drest the Patient with Lenients, as Ol. Ros. Celsus he dressed the part with Siccantia, as with Aceto acerrimo, you may find him positively for it in these words, His factis, the perforation made, ea Membrana acri aceto, respergenda est, ut sive aliquid sanguinis ex ea profluit cohibeatur, sive intus concretus Cruor remanet discutiatur; The Membrane is to be sprinkled with sharp Vinegar, to prevent the flowing of bloud from the part, and that if there should remain any clotted bloud, it may be discust. But the most part of the Ancients and many of the Moderns do propose Lenients, as Ol. Rof. that the crude Sanies descending upon the Dura Mater, in pus convertatur, may be digested into Matter: In this you are to be guided by your eye: If there be Sanies or putrifaction, Mel. Rof. Spir. Vini, and higher detergents are to be used, as the putrifaction is more or less. If there be much bloud extravaled, or that you fear bleeding, that of Celsus may be proper; but if the bloud exceed not in quantity as it seldom doth, and if it be recent, it possibly happened from some scratch of your Terebra or little asperity of the inner bone or Table, or if there be neither of these, but the membrane fresh, and of its natural colour, then you are not to grieve that membrane, new exposed to the Air with detergents, nor by the Acrimony of the Vinegar; for if you shall by scratching of the membrane make it bloudy, and then dress it with either Acetum or Mel: Ros. & Spir. Vini, you shall then proceed contrary

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contrary to the common Indications in Chirurgery, which teacheth to digest recent wounds before you deterge: And indeed what would you deterge?

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Therefore I do propose to you Lenients, not only by the Authority of those Ancients and Moderns, but by my own Practice. Galen proposed Sang. Columb. and the bloud of Turtles dropt warm from their wings, Fallop. and Fabric. Aq. Pend. propose, as I said, Ol. Ros. with Resin. Abietis, and afterward they increase the Resina and lessen the Oil; but if there be putrifaction through the long lying of concrete bloud, then Mel. Ros. & Spir.

Vini are proper; yea Mel. Egyptiac, and higher as The thinoccasion shall offer; otherwise in common cases of ner part.

recent Terebrations by the Emplastick quality from the Refina; the concoction is better made, and the part secured from inflammation, &c. It is to be proportioned to the habit of body; dry bodies require more of the Resina and less of the Oil, and by this simple Medicament, I never failed of good digestion, and afterwards by the tempering this, (as I have said) have deterged and incarned, conntinuing it until the membrane was well incarned, not finding the least prejudice the bare bone had received from it; but you must take care, you do not too much relax parts; therefore after digestion, Mel. Ros. with the Resina instead of the Oil will be answerable to your intentions, both to deterge and incarn; or you may use this to both purposes, its composition will commend it self, Re Terebinth. Venet. 3j. Ol. Rof. Ziiij. Mel. Rof. Colat. Ziij. Croci Dj. Granor. Kermes Zss. Sem. Hyperici Bij. Vini Hispanici Ziij. Coq. ad consumpt.

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Vini Colat. add Aloes 3j.m. In the use of Medicaments, you are to confider the part and habit of body, and add or diminish your simples accordingly, and fo they will perform all intentions; if the wound be made by Gun-shor, then you are to dress the wounds as is faid in simple Gun-shot wounds, and take out the Eschar, and afterwards deterge, as I have said, or with this, R. Terebinth.Opt. 3iij. Mel. Rof. Zij. Succ. Plantag. & Apii an. Zis. Coq. simulad succor. consumption. add Farin. Hordei 3j. Sarcocolla 3jss. afterwards add Aloes 3s. Myrrha 3iij. Thuris 3ij. and so it will incarn; and apply this Cataplasma, R. Farin. Hordei, Flor. Rof. Rubr. Fol. Beton. cum Ol. Myrtill. decoct it in Red-wine, and apply it over all. The Ancients used to the bone after digestion, Pul. Aristoloch. Rot. Rad. Iridis Pucedani, Myrrha, as their Sarcoticks to sprinkle on the bone, which are very good, but Pledgits of Lint dipt in Spir. Vini, and prest out hard, will at such a time serve your purpose well; and an Empl. de Beton. over all, or de: minio Mag. or the like; and where the flesh is: luxuriant, touch it with either of the stones, or this Pulv. Balaust. Ros. Rubr. & Alumin. an. prt.eq. Thus at Worcester, a day or two before the Battel, a Gentleman attended the Earl of Derby thither, with a large wound cut with a fword to the Dura Mater, he had no other dreffings on but a Linnen cap, the membrane covered with the shivers of the bone, it had not been drest, and may be thee better for him, for if dossils in haste had been prest in the wound, he would have laboured under some fevere fymptoms; but the shivers lay loofe upom the membrane, and he felt not his danger. Itook thefee

Observ.

these lightly out, cleansed the wound, and drest him up with lenients, the short time we were together. Authors have set us a limited time to dress with this or that Medicament, as to the fourth day so, and from that to the seventh to deterge, and so the fourteenth day Sarcoticks, but herein you must make use of your own judgments, persisting to che-

rish the native heat of the part.

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If the wounds penetrate to the Dura Mater, you must consider the force of the Weapon, and make halte to relieve the parts under the Cranium. But Gun-shot, where they are made with Bullets or heavy blunt things, there they are often patht into one another; there you are presently to lay open the hairy scalp,& raise it up from the Cranium, and relieve the opprest membrane; but if the flux of bloud should be so great as it will not permit, fill up the part with dosfils dipt in Wine or Vinegar; accordingly open it again as foon as you may, and in the while drefs it up as hath been already faid. These bones are to be haltened out with as much speed as may be, and the part afterwards dreft with Lenients, as hath been said: If the opening in the fractured Cranium be not sufficient, make one in the most declining part, and raise up the bones, and free the membranes of whatever may offend it, but do not take out more bones than needs must, like some of those Chirurgeons I have met carrying them about, boasting in that which was their shame; for these bones in recent fractures do unite as those in other parts, therefore having raifed them up, drefs them lightly with the Catagmatick powders, and they will happily agglutinate and make your cure more facil. In these wounds of the Dura Mater, the lenients of Ol. Rof. or warm Pigeons-bloud are H 2 proper,

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proper, they are Anodyne and digeft; Ol. Hyper. and Mastich are also good mixt with Resina, for the curing these wounds, Fabric. Aq. Pend. cites Galen, and he Archigenes using the Succus Calamenthe dropt into the wound, and sprinkling Pul. Milii over for incarnating them, the Milium moderating the heat of the other, he delivers them to us as siccantia, detergentia, & incarnantia. unition and incarning of the Lips of the Dura Mater is performed by a fleshy substance that ariseth upon the membrane, which afterwards as it increafeth, doth unite over it, and becomes one body, and grows firm; mean-while the bones within Exfoliating thrust from the side a Callus, which uniting with the forementioned flesh becomes one body with it, & filling up the place that was perforated, is in time more firm than the bone itself was: but in the while, you must be careful that your Lenients make not the part too lax by their greafiness, for so a Fungus will thrust out thence which may be vexatious to you: This in the beginning by deficcants, as Pul. Cort. Granat. Balaust. Ros. Rubr. Alum. ust. with a soft dosfil and compression by Bandage, will be taken down, or if it grow very big by ligature it is taken off: But to tell you truly, I never met with any fuch like disturbance as is represented to us by Authors, nor shall you, if you use your desiccants timely: The Vitriol or Allom-stone infensibly takes this off, and disposes the part to cicatrize if daily used.

The Pia Mater is a most delicate fine membrane, and adheres so close to the brain, that it can scarce be wounded without a wound in the Brain; and these are most commonly mortal, for that it is full of

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of Veins, and subject to great effusion of bloud: the Brain wounded and exposed to the Air corrupts by reason of the external cold which soon extinguishes the little heat of this part. And by reason of the fluidity of the Brain, and contraction of the Meninges (or membranes) caused by the constant pain and irritation, the brain perpetually oufeth out upon you, till the whole wounded Lobe be ipent. You must make way to these wounds by removing the shattered flesh and extraneous bodies and bones: but if they will not come easie away. leave it to nature, lest he die under your hands. and you be thought to halten his death. Your dressings must be with Galen's powder, with Hares Furre, with the white of an Egg to restrain the bleeding, and retain the brain within its bounds. and over them your dreffings, as in the wounds of the Dura Mater, and over the wound digestives: remembring in all these Gun-shot wounds to cut off the shattered lips of the Calvaria, lest a Gleet drop Note. from them upon the Meninges and brain, and heighten the inflammation: If the brain be retained within its membranes Pia & Dura Mater, and they digest and incarn, then you are to proceed in the rest of the cure as in fractures of the Cranium, as hath already been faid.

In all hurts of the head what fort soever they be Internal of, the Body is to be emptied, and the rather, if medicines, there be Plethora or Cacochymia; for in such habits of body humors are apt to stir up ill symptoms, especially if the wound be great; therefore you are the first day to open a Vein in the Neck or Arm on the same side, and bleed according to the exigency and strength of body; also cupping with scarification of the Neck and Shoulders, with Fontanels

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under the Ears is necessary: Then Lenient medicaments, fuch as may evacuate the ferous bloud, which by reason of its tenuity and heat readily flies to the affected part. These are such as have been proposed in the Fourth Intention of Wounds in General, to which I refer you. In these cases cordial Species and Electuaries, with Juleps and Emulfions may be proper, if they be proportion'd to their temperature, hotter or colder, as there are Fever or other Accidents joyned with the malady. Vulnerary drinks are sometimes in use here, if they be fitted according to the nature of the part, and the ingredients, for these are Beton. Artemis. Caryophilat. primula veris, Lillium convallium, Salvia: Hypericon, Sanicula, Veronica, Plantag, Flor, Rof. Rubr. Nux Moschat. &c. as in the Chapter forementioned: Of these you may make drinks with Wine and Water or small-Ale, as R. Sanic. Beton. Veronic. Artemis. an. 3j. Cons. Ros. Rubr. Caryophillat. an. 3 s. Torment. 31j. Coquantur in Aq. Fur. & Vini Rhenani an. thij. Vase clauso in B. M. colentur per municam Hippocratis; give Ziiij. of this morning and evening, or take 3j. of all these Plants well dried and cut, boil these as you do The, fweeten it with Mel. or Saccharum to the palate of your Patient, and give them a dish of it to drink twice or thrice a day, you may Aromatize it with Saunder. Cassia Lig. or Sassafras, &c.

External.

In the External Applications to the part affected, you are in the first place to prevent flux of humors, which is performed by refrigerants & exsiccants, which also dries up what is already extravased in the part; to which purpose Hippocrates proposes Far. Hordei Zviij. Ol. Ros. Ziiij. Cost. in Acet. or Oxycrat.

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Oxycrat. and made into a Cataplasma; In Winter he added Flor. Rof. Rubr. Pulv. 31j. and decocted it in Vino, others have fince added Bac. Mirt. Balaust to corroborate the relaxt parts, then they Embrocated the head and about the Jugulars, with Albumin. Ovor. Acet. & Ol. Rof. &c. sometimes only with the latter, but without the Acet. the Ol. Rof. feems to me not to penetrate enough. The want of these Embrocations is sometimes the cause that tumors arise behind the Ears. To contused and great wounds speedy digestion is required, not only in the Calvaria, but Meninges of the brain, and these ought to be humestantia & emollientia; and herein, as I have elsewhere said, Terebinthina is the most proper medicament, and in these Nervous parts you may use it washt or not; in dry bodies they add Thus, in humid bodies and recent Wounds Vitel. Over. & Ol. Rof. also Farin. Hord. Cribrat. others Terebinth. Venet. 3 is. Ol. Hyperic. 3vj. Thuris 3ij. Vitel. Ovi jm. or R. Resina Abiet. 3vj. Vitel. Ovi; or R. Terebinth. Lot. in aq. Salviæ 3j. Ol. Ros. 3jss. Gum Elemi cum oleo super Ignem dissoluti & colat. 3 ss. Vitel. ovi 3j. Croci Dj. m. and if there be much pain a Cataplasma ex Radic. Altha, Flor. Meliloti, Farina Hord. Ol. Rof. Vitel. Ovor. and a little Crocus, but you must have a care by your flabby medicaments you cause not putrifaction; wherefore Matter thus made, which happens in three or four days, you are then to deterge by adding Mel. Rof. or Mel. Com. or this, R. Terebinth. 3ij. Mel. Rof. 3j. Pul. Myrrha, Aloe, Mastich, an. 3ss. m. Discutients are now required outwardly by Cataplasmes, Cerots, and Emplasters, as Empl. Vigonis de Beton. Gum Elemi de Matrisilva, Cerat. Isidis, or R. Succi Beton. 311, H 4

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3ij. Ol. Ros. 3iiij. Mastich, Myrtillor. an. 3j. Pingued. Hirci 3jfs. Coq. ad Succ. consumption. Colat. add Gum Elemi, Tacamahaca an. 3x. Terebinth. Zijs. Cera Alb. 9s. Iterum Bulliant ad consistent. Cerat. or R. Gum Elemi Ziij. Opoponac. Zij. Bdellii 31s. Resina pin. 3j. Cera 9s. Ft. Ceratum. wounds of the head Gum Elemi is much commended, it mitigates pain, and corrects the evil temper of the part, by a peculiar vertue it hath thereunto. Fab. ab Aq. Pend. commends this Empl. R. Beton. Virid. m. viij. Contund. Contus. addantur Ol. Ibiiij. Cere, Terebinth. an. 15j. coquantur, & exprimantur suc. add Beton. virid. Contus. m. viij. Iterum coquantur & exprimantur pro usu.

Spir. Vini cafes.

The use of Spir. Vin. is much commended in these of what use wounds of the Meninges, as having such a siccant quality, as is requisite for them; but in recent wounds where there is fear of pain and inflammation, it is not to be admitted, but amongst deterfives is of great use and proper for the Bones : Vigo commends this, R. Spir. Vini Zvj. Myrrha 3s. Aloes 3j. Sarcocol. Thuris an. 3ij. or this Balfam, R. Spir. Vini tojs. Vin. Malvatici Zxvj. Myrrha, Thuris an. 3x. Pul. Rad. Consolid. 3j. Pul. Centaur. Min. 3 jis. Flor. Hyperici Pul. 31s. Tereb. Hbs. set this in Balneoa month, then reserve it for your use, drop of it warm upon the Meninges, or mixit with your other medicaments for your use. If the Dura Mater have changed his colour, and do not deterge with what is proposed, then this is commended to you, R. Tereb. Lot. in Vin. Alb. Ziij. Mel. Rof. Spir. Vin. an. Zj. Myrrhe, Aloe, Sacchar. Alb. an. 3ij. m. If there be yet such ill quality in these wounds that they tend to putrifaction,

faction, scarifie the Lips of the wound, and apply this or fuch like, R. Mithridatii Zvj. Theriac. venet. Zij. mel agyptiac. Zj. pul. scord. myrrha, an. Dj. f. vin. qs. The putrefaction got off, and the Membrane recovered in its colour, you may then drefs with the above mentioned, or you may drefs it with this of Johan. Andr. à cruce, R. ol. Terebinth. venet. mel Rosar. p.aq. apply it warm, all these Medicaments are to be applyed upon a Sindon to the Membranes. A Sindon is a piece of Silk, or fine Lining cut round proportionable to the perforation made in the Cranium, and is to be placed in under the edges of the Cranium by the Lenticular Instrument, that the edges of the fractured or perforated Cranium hurt not the Dura mater : A Thread or Silk is to be fastned to it to pull it out at pleafure; over this you are lightly to place foft doffils of Lint dipt in some convenient Medicament, to fill up the void space in the Bone, this serves to cherish the native heat of the part, and to keep the dura mater from rising above the Bone, whereby your Patients life would be in great hazard: the Tincture of Myrrha forementioned is proper to dip the dossils in after digestion.

In wounds of the membranes of the Brain, and Medicine Brain it self, this is good, Re succ. Beton. Ziiij. succ. in wounds calamenth. Zij. slor. Centaur.min.p. js. hyperici, con- of the Metus. Zij. vini odoriseri ibj. Insuse these three days, then boyl them to the consumption of the Juices, then strain it, and add to it Terebinth. claræ Ziij. Gum. Elemi Zj. dissol. in sp. vini Zij. ol. Hyperi. Zjss. mel. Ros. Ziiij. boyl these a little, then add pul. myrrhæ, Aloes, Sang. dracon. Thuris an. Zj. and reserve it for your use; oleum Aparici prescribed in wounds

wounds in general is an excellent good Medicament in recent wounds of the Meninges and Brain,

Qu.whether the chalcanth. be not mistaken, at least if by it he mean of. vitriol.

Fabr. ab Aq. pend. proposes this in wounds of the Brain, Re farina milii 3/s. olei aparici 3j. Midose of ol. thridati Zvj. Balf. pervan. ex Ægypto Ziij. sp. vini 3v. and if more deficcant be required, he adds olei de chalcanto 3 is. drop this (faies he) warm and your digestives over the wound, and to Embrocate the head and parts about with ol. Rof. and lay this Emplaster over all, far. Hordei Zviij. pul. chamel. Ziiij. pul. spica Scenanthi an. Ziij. pulv. Beton. stachad.an. Zij. ol. Mastich. tbs. ol. Rof. Ziiij. oxy mel. simpl. zv. vini albi medioc. potentis. 95,ft.

> If the bones be carious and do not readily exfoliate, you are to Rugine them and dress them with ung. Arcei, and if they do not incarn by that, then Ry p. vini Zx. Myrrhe Zj. Aloes Zjs. pucedan. Aristoloch, cort. Thuris, an. 3/s. pulveriz. & misceantur prousu. It is to be used with Lint; In dry Bodies this R vul. Aloe pumic. uft. pomphol. an. 3ij. Myrrhæ. 3j. pul. oftre. combust. Dij. this to be mixt with mel. Rof. & fp. vini. And this Emplaster over it, R cera, Resina pini, amoniaci, Elemi, an. 3vj. Terebinth. Ziij. pulv. Myrrhe, mastick, Aristoloch. rot. Ireos, Aloes, opoponac. Euphorb. an. 3j. ol. Ros. q. s. ft. Emplastrum, after parts are incarned you may cicatrize with one of these or such like, Ry plumbi usti cum sulphure & loti Litharo. aur. an. Zij. Antimonii usti & loti cerusse. an. Zj. ol. Rof. g. s. ft. ung. or thus, Ry pulv. Aristoloch ust. flor. Rof. rub. Balauft. cupress. ustor. oftrearum. an. p. ag. ft. pul. or thus, R calcis testarum ovor. calcinat. 3 s. Alum. usti 3j. croci martis 3j. ft. pul. Thus I have

ave fet you down variety of Medicaments, whereof ou may fit your felves according to the exigency, and shall now shew you some of my work, wherein used but a few.

Observations of the Wounds of the Head.

Poor woman near Ludgate, coming out of Observ. r. Chamber one Night, pulling the door to her A large by the Key, it slipt out, and she tumbling down wound of the Calvatairs, cut and raised up the Hairy Scalp; from the ria. beginning of the Lambdoides downwards; I was ent for, and having caused the hair to be clipt and haved away from about the wound, I cleanfed it from the bloud, and brought the lips close together by three or four stitches, and held them so, then prinkling them with some of my agglutinative powders, I applyed a pledget over the Suture, and Emprocated the parts about cum Alb. ovi, Aceto with ol. Rosar. and adding some of my agglutinative powders with the forefaid mixture, I applyed it over all and roul'd up her head. I gave her afterwards Ziiij. Ag. Papaveris with Syrup. de miconio and a little Aq. Cinamom.hordeat. and left her to rest. The next morning I took off my Bandage and restrictive Emplaster, and Embrocated with ol. Rof. & Aceto, and applyed a Cataplasm of farin. Horder & fabar. dedocted in Oxycrate, adding ol.

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Rof. and took away a little bloud by the opening a Vein in her Arm, and prescribed her a Clyster of Milk and Sugar that afternoon: Thus, I continued the Cataplasma and renewed it morn, and night; but drest not the Sutures till the third day, and by that time the tumor diminished, and the wound inclined to agglutination. I Embrocated the parts about, and drest up the wound again as before, the next dressing I cut out the stitches, and drest up with my Agglutinative and Sarcotic, with my Empl. Beton. over all instead of the Cataplasma, and in a few days cured her of that wound by Agglutination.

Some while after I had a young man my Patient, Observ. 2. who by a fuch like Accident was fo wounded on the right Sinciput, whom I cured the same manner as abovefaid. It hath often hapned abroad, that upon a fall from their horse, or blow by a Pole Axe or the like, the Patient hath been stunned and did vomit, by which Symptomes I have suspected a Fracture or Fiffure, so have presently laid open the calvaria, very large by cross or the like Incision, and after the raifing up the hairy Scalp, feeing all well, I have laid it presently down again, and by Agglutinatives, and fometimes by Suture with two or three Stitches at a distance to keep the lips of the wound close, have by agglutination cured it in few days, applying refrigerants and exficcants with bleeding, Clysters, &c. and have happily gotten them off in a little while.

Observ.3. A Young fellow a servant to a Horse-courser, Of the Cal- was cast off his Horse against some of the Bars in varia torn Smithsield, whereby the calvaria or hairy Scalp off.

was torn up from the Coronal Suture to the Temporal Muscle on the left side, the Skull was bared between two and three Inches broad, he was led to the next Barber-Chirurgeons, who cut the piece off, and hang'd it up in his Shop; the next day the poor fellow was brought to me. I caused the hair to be shaved off from about the wound, and drest the Bone and Lips with Linim. Arcei warm, Embrocated parts about cum ol. Rof. & Chamamel. and applyed Empl. è Bolo over the wound, and with compress and bandage rouled up his head. He had been Let bloud the day before without confideration of the great quantity which he had lost from his wound. I continued the former dresling to the Lips of the wound and Bone, untill they were digested well, in which time the edges of the Bone Incarned round, the middle of the Bone I Rugined, whereby I disposed a callus to put forth. After digestion I deterged with mund. Paracels. and after the callus grew up from the Bone, I drest the part with pledgets dipt in sp. vin. prest them out drie and applied them over the Bone. After detersion I drest the wound with one of my Sarcotics mentioned in the fourth Chapter of wounds in General, and afterwards by Epuloticks as ung. Tutia, &c. cicatrized the Lips of the wound even with the callus, as it rose from the Bone, and as the Bone shel'd off here and there in thin Scales I Cicatrized the wound, and about that time to diffose it the better to do fo, he was purged sometimes. Thus he was cured as a wound with loss of Substance, a troublesome and vexatious work to the Patient and Chirurgeon, which might at first have been cured by agglutination or with a less Cicatrix, and have enjoyed its natural tegument with the hair, hair, whereas now it remain'd Bald & very unfeemly.

Observ.4.
A great
contused
wound.

A Cook-maid, by the fall of a great Jack-weightt from its full height without doors upon her head, was beaten down, and stunned for some while by thee blow, she vomited and was carried in doors with great pain, there were three wounds to the Cranium, the flesh pasht, with a great tumor, the bone seemed to me to be deprest all under and to have a fiffure, I presently made a Circular Incision, and raised up that part of the hairy Scalp in Order to Terebration, and fill'd up the wound, and the bone with doffils of dry Lint, shaving the hair from about the wound. I applyed pledgets spread with my digestive upon the Lips of the wound, Embrocated parts about with ol. Rof. & Aceto, & Empl. è Bolo over, then with compresses dipt in Oxicrate rouled up her head. Some hours after II caused her to be Let blond about eight ounces, and that night gave her 3vj. syr.de meconio, in a draught of Aq. Papaver. with a little Aq. Cardiaca. next day I took off dreffings, and viewing well the bared bone, I found neither depression or fissure, I was deceived by the shape of her head viz. double crowned, the tumor great, and the faggittal Suture running underneath, I fomented the parts affected with vin. Rubr. wherein was decocted flor. ros. rubr. Chamom. fol. Beton. scabiosa, sumit. Absinthii, Bacc. Myrtil. &c. drest the bone and Lips, the former with my Unquent e succis, and the latter with my digestive e Terebinth. dipt in ol. Hyperici warm, and having Embrocated her head well with ol. Ros. & chamom. I applyed a Cataplasma, faring horder, pulv. balaust. & ros. rub. decocted in Oxycrate with ol. Rof. over all with convenient Bandage, thiss method

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method I continued till the wound was digested, and pain mitigated, and the tumor discussed, then I deterged the wound, and continued the former ung. to the Bone, as also to the Lips as a sure Sarcotick, and drest over all with one of Vigo's Cerotick instead of the Cataplasma; by this method the bone Incarned, she returning with Medicaments to be drest by some of her fellow servants at her Masters house a few miles off, sometimes coming to me, the Bone and Lips Incarned, I Cicatrized them as in the former Laceration of the Calvaria, I did not believe so great a blow could be without a Fracture and great Accidents, otherwise I should not so presently have raised off the hairy Scalp.

A Tradesman returning from visiting some of his Observ.5. friends in the Countrey, near Knights-bridge, fell A Conoff his horse to the ground bruised and wounded custion. his Forehead and Face, was taken up as dead. After he was a little revived, they put him into a Coach and brought him to his house, they sent for me, I found him in his bed labouring under a Concustion, a Stupor upon his Spirits, not capable of giving any account of his ailment, his Face & Nose much bruis'd with a wound to the Bone upon the os cribroformis, reaching from the upper part of his Nose, to the os frontis: I caused the bloud and gravel to be washt out of his wound, and with my Knife laid open the wound a little higher up the forehead, viewed the bone and fee it without Fiffure, I then brought the lips close together, and drest the wound with my agglutinative, with an Empl. è Bolo over it and his Face: I then caused the hair to be shaved from the forepart of the head, from the Coronal Suture down to his Ears forward, and Embrocated

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the parts shaved with ol. Ros. cum Aceto, and applyed a Cataplasme of farina Hordei with pulv. flor Rof. rubr. Balauft. & Bacc. Myrtil. boyled in Oxymell, and by Bandage retained dreffings close, then I let him bloud, between Ten and Twelve ounces, a Neighbouring Physician visited him that night, and prescribed him what he thought necessary; he lay dozing all that night, groaning and troubled, and was not better in the morning; he spake not willingly to any of us, nor so as we could understand what he said, that day I took off dreffings, viewed and felt the parts about, the left eye was Inflamed, the lid swell'd, and the forehead bruised. I was not able to make out any thing, whereby I might take new Indications, I dreft him up again as before, ordering a little breaft milk to be dropt warm into his eye, and renewed the Embrocation and Cataplasme, that day he was Let bloud again, and a Clyster given him, and what elfe his Physician thought necessary, the next day he was not better, old Mr. Boune a Chirurgeon was confulted, we took off dreffings and confidered parts, opened the Lips of the wound again, and viewed the Bone, it was fair without the least Impression, Mr. B. did conclude that the wound should be cured without farther enquiry therein, which accordingly was done in few daies after without exfoliation. Bliftering of his Neck and Shoulders, and Cupping with Scarification was refolved by us, and accordingly performed with Fontinells behind his ears. Fomentations and Emplasters were applied as in Concussions; but the relief was small yet by these, purging, fomentation and Emplasters with otherlike applications, he after a moneth or fix weeks was fo well as a little to follow his occafions

fions abroad, but was not well: his eye was cured, but after he had followed his affairs some while, of a fuddain that eye-lid fell down, and recovered nor its strength again, but in some moneths after he lost the fight of that eye, without any outward foreness, which I imputed to the obstruction from within, it being the effect of his Concussion: He was a live at the time of the Fire, and may be fo still for ought I know; if ought was omitted it was further bleeding.

A Gentleman of about 30 years of Age, Oblerv. 6. coming out of Hartfordsbire in passing through To- Another tenham, rode upon the Causey near an Inn. One Concussion emptying a Chamber-pot out at a window, just as he was passing by, his horse started, and rush'd violently between a Sign-post and a Tree which supported it. The poor Gentleman was beaten off his horse by that Tree, and lay stunned on the ground: The people fent Immediately for Mr. Torner, a Chirurgeon from London; Sir T. B. upon notice of his friends milhap fent me thither also, where I found the Gentleman lying stunned upon the ground, the people and Chirurgeon gazing upon him. I felt his Pulse much opprest, the right Brow bruifed, I inquired whether they had Let him bloud, the Chirurgeon replyed he had opened a Vein in his Arm, but it would not bleed; I replyed we must make him bleed though it be by slitting his Veins. I turned his head on one fide, proposing to open the Jugular Vein on the bruifed fide. I did fo, and he bled freely; after I had taken about twelve Ounces of bloud, the bloud run down from his Arm, which was opened before; we bled him till he came to life. Then he raved, beat us from him

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him; we staid the bleeding by Emplasterr

and Bandage, and caused the people to carry him into the Inn, and put him into a Bed. All the while they carried him and were making him unready, he roared and was very unruly, especially whilest they were pulling off hiss Stockings from his right Leg, which inquiring more particularly into, we found broken shortt in the middle of the Thigh-bone, close by a Bony Bony Wen, wen of the bigness of a Tennis-ball; they put him into Bed, and we prepared dreffings for fettings and reducing the fracture, he opposed us mainly in the Setting and dreffing it up, but some of the people holding him down in his Bed, we fet and drest his Leg as is faid in the Lecture of simple Fractures; but he was no fooner at liberty, tham he endeavoured to loofe the Bandage which wee had put on for keeping the Fractured bones together, and would not be quiet until he had done it; We contented our felves in what we had endeavoured, and from that time left his Leg to lye unlet or dreft, not fo much as an Emplaster over it, and prepared the application for his head, shaving the hair from that fide of the Temporal Muscle: and Embrocated the part which feemed to us affected, cum oleo & Aceto, and applyed a Cataplas. ma of Bean-meal which was speediest to be had. and with aceto & mel. & oleo, and four whole Eggs, which he permitted patiently. That bound on, I left my Brother Chirurgeon to Itay with him and returned to London: The next day, Sir T.B. fent for Sir Ch. Scarborough, and carried us with him to Totenham where we found the Patient raving as by their report, he had done all night. We under-

stood not one word he spake, his pulse was now

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intermitting, no Indication for bleeding, what was necessary for him to take the Physician then prescribed, and concluded that there was no Indication to do more at present; his bruise was upon the Temporal Muscle, a part not to be laid open, upon a bare furmife, nor shall I ever allow the laying it open though a Fissure were under it, but content my felf, as Ambr. Par. did in fuch like cases, to open above it, and make discharge that way, wherefore we renewed our Embrocations and Cataplasmes, and continued to drefs his head daily as hath been faid in Concussions: Then we lest the Chirurgeon to wait upon the Patient; Sir Ch. Scarborough was going a journey farther into the Countrey, I to London, but with promise to return daily to this Patient while he lived. I did fo, and the next day finding the Patient raving as I left him, his pulse troubled and intermitting, I refolved to attempt a doubtfull remedy rather than fuffer him so to languish, and that was bleeding him: his distemper proceeding from Inflammation of the Membrains of the Brain, the oppression was certainly there; to which purpose I let him bloud from the same Jugular about Ten ounces, and so proceeded every day or second day at least. The Patient bare it well, and feemed to be relieved, his pulse rifing upon it, and he flumbring fometimes, and taking his nourishment which before he did not; about the 17 day I coming to him near Totenham met his Chirurgeon going to London, he told me that if he had met nie at the Patients Lodging, we might have fet his Leg, he being now more fensible of the Fracture. I perswaded him back, much rejoycing to hear that the Patient was fo well; but when I came near his Chamber I heard him hollowing. It troubled

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me what to do, I knew his bleeding had much relieved him, but the People as also the Chirurgeon The difliked my fo often Letting him bloud, and did abusively say, Now you shall see this Chirurgeom Let him bloud again, and that I would be the death the of the Gentleman; however I resolved to Lett in him bloud once more, and no more. This I declared with the necessity of doing it, and accordingly opened the same Vein again, and held a whitee stone Porringer to receive the bloud, which flowed with a sprightly stream, the Patient lying ass quietly the while upon his back, I put the Porringer into Mr. Turners hand, and feeing the bloud flow with much vigour, I catcht up hastily a pewterr Porringer, proposing to take a little in that. Im bleeding these Veins in the Neck, we usually holding the Poringer close to their Neck it serves us ass a Bandage to intercept the descent of the bloud. II put this Porringer into my brother Chirurgeonss hands, with pretence to make a drefling to lay upom the Vein, but stood at a little distance, looking my Patient in his Face, with a refolution to bleed him until I faw his Countenance change; which I did, and then stept to the Patient to stop the Vein: The while the Porringer was taking away, the bloud run out of the Porringer, it having been melted in the fide, and the hole fo covered by the Sawder as I did not fee it before; in the while he was: bleeding I thought him long in bleeding, and wondred to see so little quantity gathered from so full a Stream, and now feeing the bed fo bloudy, it: was evident that when the melted hole prest not against his Neck, the bloud ran into the bed which deceived me. But the Patient upon the taking at little of his Cordial Julip, refresht his Spirits, I 1at

fat a while by him, and left him pretty hearty.

The next day I returned sooner than I used to do, being doubtful how I should find him, but to my wonder, he was perfectly well in his Sences, and discoursed soberly of what passages he remembred in the time of his delirium.

We prefently prepared now to set this fractured thigh bone, after it had lain 17 daies unset, it was without Inflammation Tumor or pain. The Callus I suppose was thrust out at the ends of the bones, and that had covered the Asperity of the fractured ends of them; as the large bleeding and disease had made revulsion and evacuation. We by an easie extension brought the ends of the bone together, and dress it up as I usually do in simple fractures, and in less than twenty daies the Callus was dryed, and his Leg so strong as to bear him again, and some weeks after he went abroad about his Affairs.

A Youth about Ten years of Age, was struck Observ. 7. down by a blow upon the forehead, his Father fetcht A Fracture me to him, I found him lying upon a bed deprived with a long fiffure land of his speech with a loss of the use of his legs: I depression took off the Emplaster which was upon his fore- of the head, there was no wound, nor considerable swell- Cranium, ing, but fearching with my fingers I felt a depression of the bone, upon which having advertised the Parents of the danger of the child, and the way of my proceedings, I fent for the Chirurgeon at next dore, who had applyed the first Emplaster, I defiring to retain him for more constant attendance, shewed him the way of making dressings ready in order to dilatation: Then causing the hair to be shaved, I made an Incision so large as to set on the Terebra, if an occasion should be, for the raising up.

the deprest bone. Upon the raising this Calvarian upwards toward the Coronal Suture, I espied at fiffure running up from the fractured Bone beyond! my first Incision; wherefore I followed the fissure laying it open the whole length near to the Coronal Suture, out of which I fee a ferous bloud flow in a good quantity, by which I promifed my felf a fuddain remission of these Symptomes which the child laboured under. The depression was as piece of bone as broad as a three pence funk im below the first Table: I fill'd up the opening with doffils of dry Lint, and applyed over all my digestive, e Terebinth. vitel. ovi upon pledgets with Empl. e Bolo, and made a Bandage to keep my dreffings on, after I had Embrocated parts about with ol. Myrtill. & Rof. cum Aceto; The next days in the presence of Dr. Barwick and some Countrey Physicians with Mr. Arris Chirurgeon, I took off the dreffings, and fet the Terebra above the fractured bone for to avoid the great Scar which must have been, had I made it below the fracture, befides that porinefs of the bone below. Here in thiss wound, I also cut that Vein, which in the former discourse I gave you caution to avoid, which could not be here, the fracture being just under it, and in such cases even the Artery it self is not to bee spared. The Terebra set on, the bone taken out. and the inner edges smoothed by the Lenticular Instrument I put in a Levator, and raised up thee deprest bone even with the rest: That done I placed in a Syndon with a bit of Thread or Silk fasteneed to it, first dipt in ol. Ros. with a third part Resince warmed, then with a round doffil dipt in a little on Lin. Arcei, which fill'd up the opening, out of which the bone was Terebrated. Then I opened the fiffure in with

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with my Rugines, scraping away its edgesthat no sanies or matter might be detained there to hurt the bone. Then I drest up the bone with Linement Arcei warm, in that long wound which I made to give a breathing to the fissure, keeping it open by a fingle doffil giving way to the lips to fall in, and digested them with the same Linement : I defiring no more opening than was necessary for difcharge of matter from within the Cranium, taking care that the fractured bone should not be intangled with lax flesh, lest it become carious. Over these dressings I applyed Empl. Diacalcith. malaxt with ol, Rof. cum Aceto, and with compress Bandage concluded that second dressing; and from this time, all our threatning Symptomes vanished: Indeed the first opening and Letting bloud that same night recovered his Speech, and after this fecond dressing his Legs became well again, yet we kept him in the dark, and to a slender dyet allowing no flesh. What concerned Internals Dr. Barnick took care of, the other Physicians and Chirurgeons coming no more; I continued the same method in my dreffing until digeftion, which was made in 4 or 5 days, then I added Mel. Rof. instead of the Oyl, and afterwards incarned by increasing the Refina and lessening the Mel. Ros. The slesh rising in little grains presently after the digestion was compleated, after a few days did more cover up the Dura Mater; Then I hastened the exfoliation of bones, deterging the wounded lips with Mund. Paracels. from this time the work being rather to keep down the lax flesh, than to feek how to make it grow; to which purpose I drest the Cranium with pledgets dipt in f. vini, and the Lips of the wound with ung. Tutia, sometimes touching them with my vitr. I 4

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Vitr. and Allom-stone, which were of great use, and do hasten the cicatrize with much safety: In less than fix weeks the bones were Exfoliated, and the wound ready to cicatrize, at which time I left it to the neighbouring-Chirurgeon; the Patient was cured, and is now a man.

Oblerv. 8. wound by a blow on the crown

A person wounded near the Vertex by a blow, A contused sent for a Chirurgeon, who drest his wound, the Patient going daily abroad kept ill hours, without any Confideration had of his wound, whether it ofthehead. was dreft or not. After seventeen days towards the full moon, coming from abroad home one morning, he felt his legs faulter, and before he was got up stairs into his chamber his tongue failed him, his friends and fervants put him into a bed and fent for me. They declared to me how he was wounded so many days since, and how he was seized with a Paralisis of his legs and tongue. I saw a necessity of laying open the hairy scalp, for the setting on a Terebra, I offered to go away that I might fend for fome of my fervants to help me : He apprehending that I was leaving him as deplorable, catcht hold of me, would have spoke but could not: he made figns for pen, ink and paper, he endeavoured to write but could not form one letter, he threw himfelf down in his bed, breathing out fes. I pray'd his patience, telling him I would return fuddenly: but before I went I let him bloud ten ounces, then hastened away, and returned again within an hour, and found that he had lost the use of his Arms. I considered the wound, and concluding a necessity offetting on a Terebra, and thereto having caused his head to be shaved, I made a circular Incision about

about the wound, and rais'd up the Calvaria with my Spatula, bringing the Pericranium smooth off. I both faw and felt the bone, but could discover no fault in it, with Spunges dipt in Aceto I dried up the bloud, and raised up with my Spatula the edges round from the bone, and with a fresh Spunge dried up the bloud, and lookt again under them, but could discover nothing ill in the bared Cranium. I fill'd up the wound with dossils of dry Lint with my digeltive over the lips, and Embrocated the parts about with Ol. Rof. and an Emplaster over the wound, and a Cataplasme è Farin. Hordei, Flor. Rof. Rubr. Balaust. in Vino Rubro, with Syrup. de Ros. Sic. & Ol. Chamomell. and bound it up. That day Sir Fr. Pr. gave him a Visit, and prescribed him a Clyster, with Cordials, Juleps, and what else he thought necessary. The next day was full Moon, at which time the brain is thought to rise high, and the Vessels turgid; wherefore I deferred the fetting on the Terebra, contenting my felf with the letting him bloud again. All this while he was in a Fever, and deprived of speech and limbs; the next morning about ten or eleven of the clock in the presence of Sir Fr. Pr. Serj. Pyle, Mr. Arris and Mr. R. who thought himself concerned for his fervant who had first drest him, I took off dreffings and lookt into the wound: we found no fiffure, however there was a necessity of the Terebra. Wherefore without delay I proceeded, and in order to it covered the lips of the wound with a fine Lawn dipt in Oil of Roses,& began to work with that Instrument commonly called a Trepan, wch I much prefer, it being an Instrument that fuffers you to turn lightly, and cut equally or how you please, without shaking or pressing so hard

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hard on the head: In the performing this or any operation amongst our brethren the standers-by are very apt to be teaching, one cries not so fast, the other thinks you move too flow, but of these I took no notice but proceeded, and brought out the bone, taking out the pin, when I came to the first table. You shall perceive your self to be entring it, when you see the raspings change, or begin to be bloudish, from that time proceed very gently, and take out the head of the Trepan often, and cleanse it by a brush: The Bone out, I lookt into the part, and see the Dura Mater of its natural colour without Matter or Bloud, I drest it up with a Sindon dipt in Ol. Rof. with a little Resina dissolved and warm; this way of drefling was objected against by Mr. R. as I expected. I smil'd and drest it up with it, and affured the Person that I would cure this Patient without applying any other remedy to the Dura Mater than these two simple medicaments: But withal was much unfatisfied in my felf, that fuch grievous fymptoms as loss of fpeech and limbs with a Fever should afflict the Patient, and yet no deprest bone or fissure, nor ought of Matter or Sanies appear upon the Dara Mater; this troubled me much, fearing some other place, or that the bloud lay putrified under the Dura Mater. But I drest up with a soft round dossil dipt in the same medicament, and placed it in next the Sindon lightly, and drest the bone with linement Arcei, and continued the digestion to the lips of the wound, and my Empl. de Beton. Mag. over all, I placed him down in his bed. Going presently out of this close room, where I was crouded up with great lights burning near me, into the fresh Air, I burst out with a violent coughing of bloud, but the next

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next day drest the Patient again, and found his speech and limbs restored, but he was hot, and his pulse quick: I opened his wound and found all well. as I could expect: I dreft him up again as before with the same, and after I had bound him up, as is usual in these cases, I let him bloud ten ounces, and. gave order to repeat his Clysters, &c. From the first opening there came no more any of the Chirurgeons; I retained the Chirurgeon that had first drest him in his little wound, he dwelling near the Patient. After three or four days dressings these wounds digested, and all symptoms went off well: I then lessened the quantity of the Ol. Ros. and in: creafed the Refina, and made good my word in curing him with these simple medicaments. I deterg'd and incarned as firm and speedily by this, as any Sarcotick I ever used, and as the bones cast off proceeded to cicatrize, as in the former Patient, dressing the lips of the wound with my Basil. Vigon, adding a little Merc. Precipit, to it; coming one day after the Exfoliation of the bone my Patient was abroad, fo from that time I left him to his neighbour-Chirurgeon to drefs, but see him twice or thrice after at times, and drest him then again : he was well cured, and remained well, and is yet fo.

I was call'd to consult with Dr. T.C. one of the Observ.9. Kings Physicians, in a Gentlewoman who labour- A Concused under a great pain between the Coronal and Sa-fion of the gittal future, from a blow she had many months Brain. before received riding under a Penthouse. The blow stunded her, she was brought to London, was viewed by some Chirurgeons of the City, who cured her wound, it being small, but from that time

time her pain was excessive, and now we were to consider what to do: Her pain seemed to arise from that blow, and we suppose the extravased and putrified bloud caused this pain, with a Vertigo; we considered the pained part, as she toucht it with her fingers (the scalp was swelled thick) and proposed the laying open that part, which we thought necessary, but she would not consent to it: Other things were then proposed as Fomentations and Cataplasmes discutient, blistering, cupping, bleeding, purging, and fuch like, all which she submitted to, but without fuccess. She then at last yielded to the making a Fontanel in this part affected by a Caustick, which I did, and by Dr. C. consent I made it to the bone, and so large as that I might afterward fet on a Terebra; upon the cutting out the Escar there was neither fracture nor fissure: we rubb'd the part with Ink, and rubb'd it out again, no mark remained; I Rugined the bone, but all was smooth, I put some Pul. Aloes, Myrrha, and Mastich upon the bone, and drest the Escar with Basilicon. Simpl. cum Ol. Terebinth. to hasten digestion and separation of the Escar, and in few days it separated, but her pain still increased, with other indispositions which threatned her life, if fomething more were not done. Much unwillingly The heard of the opening this bone, but at last it was referred to old Mr. Arris, he is call'd in and approves of it, the thing is refolved upon, we met, I opened it with a Terebra, and find the Dura Mater of its natural colour, but a scent from within, as in corrupt wounds of the brain; I dreft it up with Lenients as the former, viz. Ol. Rof. and a little Resina: Her pains still increased, she kept her bed, her pulse was all a-long weak and troubled a

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I drest her again: Next day I find her wound digest which I wondered at, considering what ill symptoms she laboured under.

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The third day I drest her again, and in the opening I find good digestion a beginning to incarn, a little red slesh sprouting up out of the Dura Mater.

The next day it was increased, and so the next: but then when I opened the next dreffing after, I find the Calvaria funk, the lips flat and little Matter, but it was of good colour, the Dura Mater did feem no better, the little ruddy flesh was not increased, began to change the colour and look palish, I then left off the Ol. Rof. and added Mel. Ros. to the Resina, with a little Pulv. Myrrha, and a little Ol. Terebinth. and drest the lips with my Basilicon. Mag. Vig. with precipitate and Ol. Terebinth. warm, laying over the bared Cranium lint dipt in a tincture of Myrrha, Aloes, Rad. Aristoloch. Rot. Ireos, mixt with a little Extract. Scordii & Empl. Melilot. with a good compress out of a Lixivium, wherein was boiled some of the greater Cephalicks, as Flor. Anth. Beton. Magorana, Origani, &c. But that night she was seized with Convulsions and a Sopor, and the day after the lips of the wound were without heat, & the flesh upon the Dura Mater altered, and no hopes left. She dying within a day or two after, we would fain have opened her head, but she had forbid it in her life: I turned her head downward the next day, there did run from her nose a purilent Matter of a brown colour, with the same scent that was when I opened her skull: I do believe this putrifaction was from the corrupt bloud extravafed between the Pia and Dura Mater, and at first by large bleeding and proper applications might have been relieved, and

and if here we had timely opened the Dura Mater this Matter would have there discharged itself; But this tender fex does not admit of that part of Chirurgery which confifts in opening the skull or cutting their flesh, unless it be too late.

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Observ.10. A large Fiffure, the ed.

A little Girle was brought to me with a swelling upon the left Sinciput, the breadth of about two Dura Ma- fingers off the Temporal Muscle, about the bigness ser putrifi- and shape of half a great French Walnut, and behind the Ear a little swelling: This greater swelling hapned from a fall down a pair of Stairs fome weeks before, but whether through ignorance or negligence the fracture was not suspected by them, though there was visible symptoms of a fracture or fiffure, as vomiting oft, and great indispositions, with pains, &c. The Child even languisht with it: I acquainted the Mother with the deplorable condition of her Child, and that the only way to relieve her was by opening that tumor wide, and afterward I believed there must be as much done to the Skull, that I feared through the not timely doing this, her child would now die. She prayed my help, and submitted to what I should propose; this tumor was foft, and without doubt replete with a Sanies, and the bones underneath fractured or fiffured: The way had been in a stronger body to have cut this tumor round, and raised it off from the Skull, and so have made present way to the bone; but the Child was so weak, as I feared it might die under my hands, or if it did live, yet if after such a bloudy work, if the Child should not be cured, the Mother would never forget my cruelty, (as she would call it) Wherefore in such cases I use to work in a more calm manner with that sex,

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and do that by an Emplaster, which in other's we do with a Knife: To which purpose I applied my Ung. Catheret, and with an Emplaster over it, the Mother bound up her Childs head, and carried it home: And about two hours after I call'd to fee the Child, and found it had been very easie, these parts being of an obtuse sense, and the less sensible for that the skin was distended by the Matter; I took off the Empl. and found it had workt well, I opened it, and discharged about three or four spoonful of a filthy Sanies; I took off this Caustick the fooner here, fuspecting lest it should by longer lying penetrate through, and by its falts offend the parts within: Upon dividing this Escar the bone was feen bare, and by a Probe I felt it to the whole length; upon which I cut it open, and afterward a-thwart over, and then by turning the Escar aside, I fee a long fiffure the whole length of the Tumor, running transverse over from the Temporal Muscle backward, the Skull very thin, yielding to the leaft pressure of my finger, as a piece of Vellum, so as I might have inlarged it with my Knife if I had thought it necessary. I laid the Childs head upon one side and dropt in a little Mel. Ros. with a little of my Tincture of Myrrhe, Aloes, &c. as prescribed in this Treatise, and with Pledgits dipt in the fame, lightly covered up the fame bone, and with Pledgits dipt in Basilicon. with a little Ol. Lilior. and a little Ol. Terebinth, drest up the Escar, and laid a Cephalick Emplaster over all, and bound up her head, and thus dreft her daily, sprinkling my Cephalick powder upon the bone for the space of many days. I see pieces of the Dura Mater purge out, and hang in the fiffure, and for some while a thin Ichor came out of the fissure; the Escar separated. rated, I drest the lips with Mund. Paracels, and the bone with my linement Arcei, dropping into the fissure the Balsam prescribed for these wounds by Vigo, pag. 105. Thus I proceeded, and happily cured this Child: The Tumor behind the Ear and part about I Embrocated with Ol. Rol. warm daily, by which that Tumor went off, it arising from this of the fiffure; but about a year after this Child grew lame of her left Leg, and was strumeous: How I proceeded in this you may read in the Treatife of that disease, she being the product of a diseased Mother.

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Observ.11. A Caries through in the Pecome one body.

A Gentlewoman falls with her little Daughter, a Child of half a year old in her Arms, the Mother is hurt, and the Child a little scratcht on the left the Crani- fide of her head; it's viewed by a pretender to skill um, where- in fuch things, and flighted as inconfiderable; but ricranium from that time the Child grew indisposed and voand Dura mited often, especially after the receiving its suste-Mater be- nance, & as it grew able to speak complained of a pain in her head, and through her often vomiting she languisht: After Ten years a small Tumor appeared in that part of the head where it had been hurt by the fall so many years before: They now again confult and bring the Child to me, a very starveling; I viewed the tumor and felt in it a pulfation, which at first I thought an Aneurisma, but pressing my finger more into it, I felt the brain without any skull, the breadth of an old English shilling: This at first a little amused me, but upon confideration of the fall and fymptoms fucceeding, it was evident to me, that by the fall the skull was fiffured; and being of a thin Cartilaginous fubstance at that time of her infancy, had been by length S AMOR

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of time mouldred away, and from that Erofion the Dura Mater inflamed, and thrust out from within; and by adhesion to the Pericranium had become one body; It is usual for parts inflamed to adhere to the next adjacent part: This I supposed the case: The presage here was a sudden death if the cure was not attempted, and in the attempting it the was in great danger: To begin this by a Circular Incision from the compass of the skull, was not difficult; but then to separate these two membranes, the Dura Mater from the Fericeanium, or this from that (they being become one body) was a difficult work even in a dead body, here in a weak Child much more, where the blond would be apt to blind me, and the impatiency of the Child would make it hazardous; this work requiring a steadiness: Then I consider'd of a Caustick, and having predicted the danger either in leaving it to die by its malady after a few weeks, which was certain, or in attempting the cure doubtfully; I referred it to them: They had consulted before, and were not ignorant of the danger the Child was in by its difease; Therefore they readily put the care of managing this great work to me, and lodged it near me, in Suffolk-buildings: I prefently caused the hair to be shaved off from about the grieved part, applied the most gentle Caustick I could propose; and at fuch time as I thought it might have made its way in the Superficies of the Calvaria, I took it off, and with a Caustick-stone rubb'd into the Musculous part of it; then I washt out the falts well with Wine first, then Milk, after that with warm Oil, then with a Knife I cut into the Eschar, and Embrocated the part warm, and dreft it up with Ung. Bafilic, with Ol, Rof. and applied my Empla-Her

ster over all, and roul'd up the part with good Compress and Bandage: that night she was seized with a fit of Convulsions, Vomited, and was very ill: Dr. Fisher was sent for, he prescribed her a Cordial-Julep, proper in that her case, and relieved her: The next morning I took off dreflings' to look upon the part, and raifed up the hairy scalp round from the skull through my Eschar, which gave the wound a breathing, and discharged a little Ichor; from this time her vomiting ceased, the had no more Convullive fits, the began to be more lively than in Ten years before: We kept her in bed warm and close, with a flender diet, allowing her only Spoon-meats: Her Physician took care in what concerned her health by Internals: I proceeded to haften digeftion, and by Fomentation and the like to cherish the native heat of the part, and as the Calvaria separated, so I endeavoured digestion fometime, otherwhile detersion interchangably; as the one medicine corrupted, so the other deterg'd: It was a nice work to separate the Pericranium from the Dura Mater, but I happily effected it, while the latter flough was feparating, the Callus rifing up in the mean time: The Patient being free of all the former ill symptoms, and brisk, and in a fure way of recovery. I invited Sir Charles Scarborough and Dr. Walter Needham, who did me the honour to fee her. It was a rare cafe, not mentioned by any Author, nor scarce to be seen again: Since that time the bone Exfoliated, the Dura Mater incarned, and the wound cicatrized and contracted to a very narrow compass. The Child returned to her friends perfectly in health, is a witty Girle, but it's doubted the will be but a dwarf.

An Additional discourse of Wounds of the Brain.

(in Hall and in Comment

HE greater fymptoms that are usually said to attend the Wounds of the Brain, do shew Uncertainthemselves more uncertainly than a speculative Chi-tyotsymprurgeon would imagine. And in Cuts or Wounds Wounds of made by sharp weapons, or sudden strong force the Brain. more uncertainly than in Contusions, Concussions, & Depressions of the Skull. The highest of them, viz. Vomiting, Stupor, loss of speech, with a Paralysis of Legs and Arms arifing more fuddenly in these latter cases, than in the former. These symptoms have appeared in one of the forementioned Observations, where there was nothing of fiffure or extravaled bloud seen upon the Dura Mater, after the Terebration or Perforation of the Cranium. Nay, we fee many die fuddenly from a box of the Ear, and from fmall blows or wounds: In fome upon opening the Cranium there is much bloud extravased, in others none at all, or ought elfe that may be thought to have kill'd the Patient.

A Young man from a blow with a Cudgil upon the forehead, presently takes his bed, becomes delirous, a Sopor follows, and after some days he dieth. I am sent for to see his head opened; in laying open the forehead, I see a small hair-like fissure, running from the great Canthus of the eye upward: we took off the skull and Dura Mater, and found but little bloud extravased, the Pia Mater as little

2 altered;

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altered: Others I have been call'd to see opened, where there had preceded only a contusion of the Calvaria, without fissure or extravased bloud, more than is usually seen in every opening, or taking off the Cranium: yet the Patient lay, as I am informed, under all those symptoms of Delirium,

Coma, &cc.

Then again I have drest many that have been cut through the Skull, the shivers of bones and pasht Helh, and hair lying upon the Dura Mater, yet the Patient without any symptom of such a wound; some whereof you have read of in this preceding Discourse, some other I shall instance. At Sterling Mr. John Chace was present, when a poor Servant-maid came to me to be dreft of a wound the had received on her head by a Musquet-shot, in the taking of Calander-honse by the enemy; there was a fracture with a depression of the Skull: I set on a Trepan for the elevation of the deprest bone, and for discharge of the Sanies: She had laboured under this fracture at least a week before she came to me; yet had none of those symptoms afore-mentioned, but after perforation, and raising up this deprest bone, and dressing the wound, she went her way, and came daily thither to be dreft, as if it were only a simple Gun-shot wourd of the hairy scalp: Mr. Penycuke an eminent Chirurgeon of that Nation did affift me in this work; I think the Brain itself was wounded: I left it in his hands, who I suppose finished the cure.

At the beating up of some of our out-guards near Truro, the enemy pursuing them, a Trooper wounded between the Right Brow and Ear, on the Sinciput; espying me amongst the flying croud, importuned me earnestly to dress him; he would

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admit of no excuse, we stopt at an Apothecaries house on the right hand, going out of the Town towards Perin.I call'd to the Apothecaries servant to bring some- Observawhat to dress him, in the while hastily I listed up the tion. bloudy hair, and fee a quantity of the Brain lye among it, I took it up with my fingers, and shewed it him, the fight whereof calmed his passion, whereby I had liberty to fly from the Enemy who was entred the Town. Here the Prognostick was certain, yet none of those cruel Symptoms which accompany Concuslions or leffer fiffures.

enting

From Battails and Sieges of Towns and Manner of Garifons, we meet with many fuch wounds; in dreffing them we hasten our way to the Extraction the Brain. of the Extraneous bodies, by cutting off the shattered calvaria first, then pulling out what ever was carried within the Cranium; if this be well performed, we then dress up the Brain and Membranes with a Sindon of Silk or fost linnen, of a bigness proportionable to the wound; this is dipt in a warm digestive, such as is proper for the wounded Membranes, for however Chirurgeons have proposed to dress the Brain with one kind of Medicaments, and the Membranes with another, that is not possible to be so done, but that the Membranes or Meninges will be washt with the same Medicaments, and if they be offended by that Acrimony, Inflammation, Fever, Delirium and death will the speedier follow: In the Cure of these wounds of the Brain, I do consider the Brain as an Infensible body, and that their cure confifts in keeping it within its Membranes, and dresling them as wounds of the Membranes with Lenients, &c. if this can be done, as in small wounds of the Brain it doth sometimes happen, (and the better if the fracture of the Skull hath not been very large,) then the Patient may recover. But

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But if the fracture in the Skull be large, and the wound in the Brain proportionable, that the Brain cannot be contained within, then it corrupts by the external cold, and gets between the Meninges, and offends them by its putrid Acrimony, whence Convultions, Palfies, and other ill accidents follow, and death. They sometimes live until that Lobe be consumed, or hath wrought it self forth; as for Instance,

Observa-

M. B.

At the Siege of Mellcome Regis, a foot-souldier of Lieut. Coll. Ballards by the grazing of a Canonshot, had the fore-part of his head carried off, and the Skull fractured into many pieces, driving some of it with the hairy Scalp into the Brain: The man fell down as dead, but after a while moved, and an hour or two after his fellow Souldiers feeing him endeavour to rife, fetcht me to him. I pull'd out the pieces of bones, and lacerated flesh from amongst the brain, in which they were intangled, and drest him up with fost folded linnen dipt in a Cephalick Balfam, with Empl. and Bandage bound him up, supposing I should never dress him any more. Yet he lived 17.days; and the 15. day walkt from that great corner Fort over against Portland to the Bridg, which separates Waymouth from Mellcome Regis, only led by the hand of some one of his fellow Souldiers; the fecond day after he fell into a Spasmus and dyed, howling like a dog, as most of those do who have been so wounded.

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About the same time a maid servant was shot into the right side of the Sinciput by a Musket bullet deep into the Brain, she lived as long, viz. until the Lobe of the Brain was wrought out or corrupted.

At the Seige of Taunton one of Coll. John Arundell's men in Storming the Work was shot in the face by Case-shot,

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shot, he fell down as dead, and in their retreat was carried off amongst the dead, and laid into an empty house by the way until the next day, when in the Morning early the Coll. marching by that house, heard a knocking within against the door, some of the Officers defiring to know who it was, lookt in, and faw this man standing by the door without Eye, Face, Nose or Mouth: The Coll sent to me, (my quarters being nearest) to dress the man, I went, but was somewhat troubled where to begin; The door confifted of two hatches, the uppermost was open, and the man flood leaning upon the other part of the door which was shut, his Face with the Eyes, Nose, Mouth, and forepart of the Jaws, with the Chin was fhot away, and the remaining parts of them driven in: one part of the Jaw hung down by his Throat, and the other part pasht into his Throat; I see the Brain working out from under the lacerated Scalp from both brows, I could not see any advantage he could have by dreffing, to have cut away the lacerated parts here, had been to expose the Brain to the Air; But I helpt him to clear his throat, where was remaining the root of his tongue: he feemed to approve of my Endeavours, and implored my Art by the figns he made with his hands. I askt him if he would drink, and proposed a fign by the holding up a finger, which he presently held up and immediately both his hands expressing his thirst, a Soldier fetcht some milk, & brought a little wooden dish to pour some of it down his throat, but part of it run down on both fides; he made figns to have the dish in both his hands, they gave it him full of milk, he held the root of his tongue down with the one hand, and with the other poured it down his throat, (carrying this head backward) better than I had done, and so poured down more than a quart; After that I bound his wounds up, the dead were removed from thence to their graves, and fresh straw fetcht for him to lie upon, with an old Blanket to cover him, it was in the Summer; there we left that deplorable Creature to lodge, and while we continued there which was about 6 or 7 dayes, all that while he was dreft by some of the Chi-

135 An Appendix to the Wounds of the Brain.

rurgeons with a fomentation made with our Vulnerary decoctions, with a little Brandy-wine in it, then with Stupes dipt in our common Suppurative we bound him up.

I could tell you of many wounded into the Brain, but do think these may serve to prove what I would declare of them, viz. that the Brain is of it felf infenfible, that those Symptomes which accompany these wounds proceed from the pain which the Meninges, Dura and Pia Mater suffer: which if oppressed by extravasated bloud, or a depression of the Skull, do quickly suffer the greatest Symptomes, as Vomiting, Stupor, Paralysis, &c. much more if they be pricked by any spill of a Bone, or other Extraneous sharp body. When the Brain it self ouzeth out between them in the manner already mentioned, it is a mild foft substance and lenient to them, so that the accidents appear not till that begins to corrupt between them, and with it the Membranes themselves putrifie, upon which their follows Convulfions, Howlings, and a suddain dispatch of the Patient. From which very Observation, may be seen the folly of dressing these wounds with powerful deficcatives, which to far as I could observe, did hurt the Membranes, but never either digest or Incarn the Brain. According to Hip. non Coalescet. but as it gets liberty, works it felf forth like unto Barme, and as I have faid corrupts; and the Meninges suffering from that putrefaction, Spasmus follows, and the Patitient dies; At Sea these Patients wounded in the Brain died presently, we having no conveniency of lodging them, or drefling them to warm as they require. In the wars my Imployment did not permit me to see the finishing of their Cures, and here in my Practice! in and about the City, I never was called unto any fuchi wounds, derefore muit leave that to others to treat off: But by what I have feen from them heretofore; their Cure confifts in dreffing them, as in wounds of the Dura Mater, and in keeping the Brain within its? membranes, without which no Incarnation can be made: on the Membranes.



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Gun-shot-wounds.

PART II.

CHAP. I.

Of Gun-shot in General.

Reat hath been the Contention amongst the Learned about fire wounds, and venome in Gun-shot-wounds; whether some maintaining the one, some fiery or the other to be in them and o- venomthers defending, that there is neither. which I suppose might be the occasion of their fuspecting Empyreuma, and a Venefick quality. was the deadly colour of these Wounds; which in those early dayes, when the Invention of Guns was novel, surprized them; they being

being not unlike poyfoned and burnt Wounds. Where the Bullet pierceth, it extinguisheth the natural heat, and the lips of the Wound are livid, or blackish, and if not drest rationally, it inflames round about, from the afflux of humours, and hath ulcuscula, with a

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In this condition the Wound is the first day, and so to the seventh, and (if not succoured) it Gangreens, and so the Patient commonly dyes. If in those dayes the Learned thus deceived by their aspect, drest them as venomous Wounds, it will be no marvel that they should write so of them : I verily believing, that in their way of treating them, they were directly as poysoned Wounds, difficult to digest and cure.

In these our times, although they do not dreffing

wounds.

Frrors in call them venomous, yet it is the hardest thing in the world to disswade many of our Chi-Gun-shot rurgions from dressing these Wounds with Tinctures of Myrrhe, and Honey of Roses, and thrusting in of great Tents, by which way of dreffing, I have feen thefe Wounds, undigested the tenth day, one whereof was in the Cheek, with dry and flaggy lips. These lesser fleshy wounds, being undigested, at last Gangreen; and in truth it is not to be wondered at. I will undertake to shew you the Experiment every day; and that in a Fontanel or Isue, made by a Caustick.

Cut you through this livid or black Escar, and put a Pea in the middle of it, with Tincture of Myrrhe and Honey of Roses, as I have seen some of them dress Gun-shotwounds,

wounds, and the next day, or two dayes after, when you dress it again, it will be to your sight not unlike a Gun-shot-wound; continue your dreffing it with a Pea, and with your Tincture of Myrrhe, and if it do not Gangreen, yet it will be Inflamed, and -flow in digestion. And this is from the improper application in the dreffing it. For if you dress this Escar in the Fontanel, with Emollients and Digestives, as you ought to do the Escars in Fontanels, the Escar will separate with digestion, in the worst habit of Body. And so it will in Gun-shot-wounds, with little distemper or difficulty, if you have timely extracted the extraneous Bodies, But a discontinuance in this kind of Chirurgery, makes us apt to forget our felves.

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Thus at our entring into Worsester, when Obsers the King came out of Scotland with an Army tion.

of that valiant People, a Townsman was shot.

A Pistol fired by the Cheek, shot him through his lower Jaw and Tongue, and out by the Thus at our entring into Worsester, when Observacontrary Cheek, the Chirurgion of the Town a good Chirurgion, upon light of it, concluded it Gangreened from the black colour; and declined the dreffing it the way he rationally ought; upon which the part grows exceedingly painful, and inflames and Gleets with great tumefaction. After two dayes, I am called in, and by lenient Medicaments and good Bandage, keeping up the fractured Jaw, fin allaid the pain and digested the Wound, leawing it in the same Chirurgeons hands, who streured it. In this person, the Wound was burnt by the flame, the very powder flick-

ing in some parts of the Cheek. This, with the putrefaction from the hot weather, contributed to our Brother Chirurgeons apprehension. It is this ugly aspect that puts the inconsiderate Chirurgeon out of his Method, and so makes Gun-shot more difficult of cure, which otherwise would digest, and heal as easily, as any complicated Wound, as I shall make appear in this following Difcourse.

CHAP. II.

Cure of Gun-shot-wounds; and First of Extraction of Bullets, &c.

plicatissimum morbi Genius; The most complicate sort of Wounds that can be inflicted. For they are not onely a solution of continuity, but have joyned to that contusion, Attrition and Dilaceration in a high and vehement kind. To this we may add all sorts of Fractures and Accidents, as Hemorrhage, Instantion, Erysipelas, Gangreen and Sphacelus; besides the extraneous Bodies, which are violently carried into the Wound. And multiply Indications ex composi-

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tis, affectibus, non unica elicitur Indicatio, sed plures pro diversitate morborum. The number of the Indications in compound, affecti- Comons, must answer to the variety of di-poundinsturbances, were it a simple Wound, the cure of it would presently be performed (as you have read in the preceeding Treatise of Simple Wounds) per Astringentia & exsiccantia, by such Medicaments as are of an astringent and drying quality: The cure of a Wound is the exficcation of it; but here is alwayes joyned with these that which Indicateth the use of Emollentia, digerentia, & Suppurantia, according to that of Hippocrates, Omne quod contusum est, necesse est ut putrescat, & in pus vertatur; What is contused must necessarily putrifie, and be turned into matter.

That which is fretted and torn must also be What is reduced to the whole, or cut off, before your torn is to ordinary intentions of Incarning. Moreo- be reduver, in these Wounds, not onely the Bullet part, or it self is ordinarily lodged; but many times cut off. other strange Bodies are carried along with it. For extraction of which, judicious care and industry are required in you; Here in these recent Wounds, we very rarely have a flux of blood, though the Veins and Arteries be wounded; they commonly lie quasht in the contused field, until separation of the Escar, and about that time when you least think on it, they may burst out violently. I have seen it thus often break forth; but if Hæmorfuch Vessels do bleed upon the receipt of the rhagy. Wound, and interrupt you in drawing out

the Extraneous Bodies, you must endeavour

to suppress the blood, for thereupon depends the Life of your Patient. But withall fo proceed, that you may extract the Bullet first, and then be careful that in the restraining the bleeding, by your crowding in Doffils, and strict Bandage, you bring not on a Mortification. Such a Hemorrhage hap-Observapened to a Souldier at the surprize of Weymonth, by the Garrison of Portland; he was thot through the Heel; for the restraining of bleeding, I applyed my endeavours. But after all, I was put to the use of the actual Cautery, which I did successfully, and have since seen Botallus authority for it: Tu-

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tius enimest (saith he) eam Ignito ferro constrin-Anodynes gere. Pains are here to be appealed by Anodynes, but you must well consider the application, least you extinguish that small remainder of heat that is left. How you shall deal with all these Inconveniencies, and not add one evil to another, I shall plainly deliver to you. And first, what must be first put in execution, which is the extracting of Bullets and other Extraneous Bodies.

Drefs prefently, during

The Part is at first dreffing, with what diligence you can, to be cleared of all fuch Forraign Bodies, as have made violent Inof Battle, trulion into it, while the Patient is warm with the heat of Battle, and the Wound fresh, and very little altered, by either Air or Accidents, fo that less pain must necessarily follow upon the Extraction.

> In the Armada Naval de Dunquerquo, where we Chirurgeons were oft imployed in this Ser

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vice, we after every fight went together, vifiting one anothers wounded men: Amongst
us it vvas thought a great shame if any thing
of this work of Extraction vvere then to be
done. For after the first and second day the
Wound proveth tumesied, all the neighbourof it.
ing parts are inflamed and changed so in their
temper, that they conceal from your sight
both the Bullet and his Companions, that the
place they are coucht in can hardly be known;
or being discovered, you cannot without
hazard of your Patient, or great trouble of
the Part, make extraction of them.

And yet if the Wound be near a Joynt, or the Shot lodged amongst the Tendons, it is much to be feared the pain will not off, until those strange Bodies be drawn out; consequently the omission of that extraction, will bring Mortification, which hath been the cause of the death of many a brave Souldier. And is the cause of all the mischief these Wounds are subject to, as Pain, Instammation, Spasmes, Convulsions, Gangreens, Sphacelus, what not? Every Battel produces Instances of

it to the discredit of our Profession.

But if the Bullet be lodged in a less noble Part, as in Musculous Flesh, you may with more ease content your felf, unto the seventh day, or until the sierceness of the Accidents be over, and the Wound digested. But withal, it will require more care, for the Wound will be more painful, and slow in digestion then otherwise it would be; yet by the confession of those that allow fire and poyson in it, the Bullet may ly long there, and

and do little harm; nay, I suppose there are not many, but have heard or seen of Bullets that vvithout grievance to the Patient have continued, lying long in sleshly parts of wounded men. Conceive this spoken of Leaden Bullets, for Iron or Brass cannot (by reason of their aptness to rust) remain vvithout doing harm; however let nothing of this encourage you; for the Bullet pierceth not any part, vvithout carrying raggs along vvith it, vvhich corrupts in the Wound, and makes Apostemations and prolongs the Cure, as must needs be observed by all men in their practice.

Observa-

The Servant of a Noble man, was wounded and shot in the thigh by High-way men, the Bullet not having been drawn out by his Country Chirurgeon at the first dressing, could not be drawn out by me at the second, but occasioned great pain with Inflamation, great heat and vvatchings: Although he had many other considerable Wounds upon him, to make a derivation; yet vvas his Gun-shot more vexatious then all the rest, until I extracted the Bullet and raggs carried in with it, yet this vvas but a Pistol Bullet. ter I drew out this Bullet , my digestion became good; and by equal Bandage, with gentle compression of parts, I united and healed it in ten or twelve dayes, vvhich I doubt would not have otherwise been cured in three moneths.

Nay, vvhile any of the raggs remain in the Wound, it will never cure, but the Extraneous Bodies drawn out, there is little diffi-

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WHT. rurd a culty in the curing these Simple Wounds; if drest, as I shall here following show, but if handled, as some have lately taught, they are as so many poysoned Gun-shot-wounds.

Now for the taking out of the Bullets, Two meand other Extraneous Bodies, there are two thods of Methods; I. One to extract them by the wvay extrathey wvent in; The other to open them a way, ching Bulby which they would, if their force had not lets. fail'd them, have passed themselves through.

For to take them out the vvay they vvere 1. The forced in, you must place the Patient, as near way the as he can guess in the posture he was in when went in. And, if by reason of his weakness or Methods other Infirmity, he cannot without pre- of fearch. judice, be so scituated; let him be laid in a position which may as neerly answer it, as may be; Least some part of a Muscle, Tendon, or Ligament, obscure what you desire to make manifest. Then make fearch for it with your finger or probe. The Figure of these Wounds is alwayes round; the Bullet forces the Flesh in with it, and its entrance presently contracts closer; but its going out is more laxe; you may guess by view of the Wound, the largeness of the Bullet, and comparing the Figure with that, make choice of a fit Instrument for extraction, whereof you ought to be alwayes well furnished. Your main care in this work is to find out the Bullet, which if you fail of by fearching into the Wound with your Probe: Then you are to feel the parts about, it being wonderful to consider how these Shots do twirle about, at least seem to do so, when the posture

is changed in which the Wound was re-

As for Example; A man hath been shot in the Cheek, and I have cut out the Bullet behind in the Neck: A man shot in the outside of the small of the Leggs, the whole Member unmeasurably swell'd and inslamed, no possibility of sinding it out either way; at last by chance, I felt it in the inner side of the Thigh above the Knee. And so another being wounded in the outside of the Arme, I have cut out the Bullet below the Scapula; If the Bullet have not been in so long (as in some of these cases) that the parts are extreamly pained with Inslamation and Tumor, the pain where the Bullet lodges discovers it.

Observa-

A common Souldier shot in the Breast through the Sternon, lay roaring very grievoully, complaining of the pain of his Back. I was fetched to him; and turning him on his side, I saw the Bullet lye like a small Wen or Scropbul, thrusting out under the Skin, not far from the Spine. I made Incision over it, according to the length of the part, and thrust out the Bullet as easily as I could delire. I dressed it, and the Souldier ceased his crying, and acknowledged before us, his pain was from the Bullet in the Skin. For indeed the Lungs and other internal parts, are seldome sensible of pain, when wounded through; they discover their burt by other symptomes. The common Souldier dyed, as most do that are shot through the Lungs.

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If in your fearching for the Bullet, you light on the part, though there be no Extuberance, or ought to be felt, yet his pain there, will be a good fign for it; if no accident occasioned that pain. Make your way there by Incision, avoiding the Vessels, and take out the Shot, and what else offers it felf; by this you do both quit the part of its troublesome Lodger, and withal make way commodiously for discharge of matter, which in regard most of these Wounds are Sinuous; (the Bullet turning aside, when it is hindered in its journey forward) for want of difcharge might in those places occasion Fistula's and hollow Ulcers, not without ill quality.

In the work of Extraction, take great care Caution, you lay not hold of some Nerve or Tendon, and so pluck them along with the Bullet; for by so doing you may cause intollerable pain and grievous accidents; you must therefore neither open nor dilate your Instrument, until you may take hold of the Bullet, without any

of the circumjacent parts.

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CHAP. III.

The first dressing after Extraction.

S foon as you have made a separation of these Extraneous Bodies, if you judge the Wound to be fo well conditioned, that there is neither fear of Putrefaction, nor Mortification, (as in recent Wounds First dref there is not;) Be not discouraged at whatfing after soever evil aspect it hath at prefent ; but con-Extracti- fider its Livid colour to be natural in the Wounds, when the Contusion is not simple in the Skin, but through Flesh and all, as far as the Bullet hath entred, depriving parts of their fense, to the very bottom, and hath the colour of a gangreened or poyloned Wound. Therefore I pray disturb not your thoughts; but having taken out the Bullet, dress it up as a contused Wound, with Ol. Catulor. as hot as the part will bear, not giving credit to any that shall perswade you to the contrary; And it is thus made.

R. Ol. lilior. alb. th vj. boyl in this two new whelpt Puppies, until the flesh fall from the: bones, then add Lumbric. terrest. in vino leter. th i. boyl these a while, then strain it by at gentle compression; to the strained liquor add Terebinth. 3 iij. f. vini 3 j.referve this for Re, Ol ..

your use. Or this;

Of Gun-shot-wounds.

B. Ol.lini, Canab. an. 3 iiij. Ol. lilior. chammeli

B. Terebinth. opt. 3 iiij. Thuris Mastich. an. See of A-3 iij. Myrrhe 3 j. Ol. Aparici 3 ij. Ol. lum- fimple bric. & sambuc. an. 3 iij. m. B. Ol. elivar. Wounds. th j. Terebinth. th. s. Gum. Elemi 3 ij. aruginis pul. 3 ij. Or this;

Be. Sp. vini to Ss. Terebinth. to j. Ol. Hiperici & lini an. th s. sang. dracon. subt. pulveris 3 j.

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With this I cured a servant of A. D. shot into his hand, this digested the Wound, after Observaseparation began, I felt part of a bone bare, which I drest with Extrac. scord. dissolved in Mell. Res. with which I deterg'd, and feeling no more of the Bone, I incarn'd and cicatrized with ung. Tut. &c. in few dayes without any difficulty, Linement Arcei with any of the above mentioned Oyles is very good, adding a few drops Ol. Terebinth. which by its subtilty penetrates, and by its heat rouzeth parts, and putteth them upon digestion and hastens separation.

Quercitanus proposes this. Re. succi herbar? Tussilag. oxalidis an. 3 iij. Caricas ping. Nxx. Thur. 3 ij. Resin. laric. 3 ij. s. Axungia Gallin. Auserin. an. 3 ij. Butyri recentis to s. Olei visis pomorum compost. to j. put this altogether in a Vesfel close stopt, boyl them by a gentle heat the space of six hours, then strain them out hot, and evaporate them to a good consi-

ftence : Or this ;

Re. Ceranova, Resina, picis naval. an. 3 ilij. sen Hircini, medulla, cruris, vitulini an. 3 ij. aspi » 3 j. Ol. olivar. aut lini, to j. liquefactis omnibus tran -

transcollatis, F. ung. quod reservetur ad usum. He adds a 3 j. of pracipit. to every 3 of this. But this in recent Wounds will not be necessary; for you will find by Experience, that these Wounds will digest and suppurate (and that frees them from putrefaction.) Nor will it be alwayes for your Credit, if you consider the quantity of Balsomes we use in such Wounds, and the prejudice some people have to the use of Mercury; yet pracipitate & Axangia with a few drops of the Terebinth, was a common Medicament among us. But I refer that to you, it being a good Medicament to hasten separation of the Escars; you are to dress up these Wounds lightly with a proportionable soft Tent, and Plegdits dipt in fome of these digestives very warm, not to feald parts. After that Embrocate the parts about with fuch like.

B. Ol. Lumbricor. Ros. Myrtill. an. 3 iij. Aceti cochl. ij. mix them; in the first dressing, your Applications over the Wound and parts circumjacent, should be such as have Vim A-Stringendi & Intercipiendi, to hinder the flux of humours, and strengthen the part, take farinæ hordei & fabar.an. Zvj. Ros. rubr. Bacc. myrtill. an. 3 j. s. sem. Cydon. 3 vj. boyl these in Posca, to the consistence of a Cataplasm, adding at last two new lay'd Eggs, with Oximel 3 ij. s. Apply this over the Wound and part; if you apprehend this too heavy, you may add Ol. Myrtill. & Ros. and Wax as much as is necessary, and make it into the form of a Cerote; and above the Wound lay one of the defensatives, of which, or the like, you

may have alwayes ready by you.

R. Bol. Armen. 3 iiij. Terr. figilt. 3 iij. Sang. dracon. 3 ij. Corn. Cervi. Uft. or burnt bones 3 ij. s. our Juice of Sloes dryed, an. 3 iij, Cera 3 iiij. Ol. Ros. & Myrtill. an. 3. vj. Acetis 3 xij. boyl these to the consistence of a Cerote, add four whites of Eggs. Or this;

R. Palv. Ros. rubr. Bacc. myrtill. an. 3 j. Bol. Armen. Terr. sigill. an. 3 vi. succ. plantagin. solan. an. 3 ij. Aceti opt. 3 iiij. Ol. Ros. & myrtill. an. Ziiij. ceræq. s. m. Apply your Compress, dipped in Aceto or Oxicrate, let your Bandage be put on equally and gently, to retain your dreffings, and hinder the Influx of

humours.

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Having thus dreft the Patient, prefently Bleeding. consider of letting of him Blood, to prevent ill accidents, and especially if he lost little or no Blood from the Wound, and that there be a Cachochymia, Revulsio enim qua è directo sit, celerrimam utilitatem adfert. Galen. de sang. Mis-

sione.

A Glyster should preceed Phlebotomy, Glysters. made of the decoctions of Mallowes, Violets, Beets, Mercury, Bays and Juniper-berries, with Ol. of Linseeds, honey of Roses, Hyera Piera, or Elect. lenetive. But if you have not this in readiness, make your Glyster with the broath of Flesh, Ol. Chamom. Sugar, and the Yolk of an Egg, and a little Salt, if your broath be not falt, or falt-water, or broath out of the Kettle, with a few flowers of Chamom. boyled in it and strained; adding a little Butter or Oyl, and red Sugar, is a good Glyster in time of need.

Then

Epithema

Then you are to prepare some Cordials to resist the putrid vapours, you may also fortifie the spirits if there be need, by some E-pithema of your distilled Waters; as Balm, Bugloss, Acetum, Ros, with the Powder of the roots of Tormentill, Scordium, Scorzonera, Contrayerva, Treacle, Mithridate, &c.

Cordials.

And with these you may make Cordials also, adding Syrupe of Citron, Gillistowers, confest. Alkermes, and for your Common people, an. 3 j. of Treatle or Mithridate in White-wine dissolved; for the better fort, take Aq. Bugloss. Cinamom. an. 3 jj. conf. Alkermes 9 j. lapis Bezoad. occid. gr. XXij. syr. Citri cochl. ij.m. for an Epithema.

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Dyet.

B. Ag. Melessa borage Bugloss. an. 3 ij. Aceti Rosat. 3 j. species Diarhodon. 3 j. Croci 9 j. As to their manner of Dyet hear Celsus, Lib. 2. Cap. 26. Ubi aliquis grave vulnus accipit à cibo tantum abstinere debet, quantum vires pasiuntur, adeo tenuis esse debet dyeta, ut vix sustineatur; In great Wounds it is necessary to observe a spare Dyet, as Barly Gruels, Panadoes, thin broath, or a poached Egg, this much availing to the preventing of Inflammation. But in this the Patients custome must be considered. also the Air must be temperate, and dress not in the Air, frigidum enim inimicum vulneribus, Cold is an Enemy to Wounds: rest is also required as well to the mind as the body. Therefore having thus dreft him, and laid him to rest, with 3 vj. syr. de Miconio, with cochl. ij. aq. Cardiaca, in 3 ilij. aq. papaveris.

The 2d days dref-

We are now to proceed to the second days work, and we are here to consider the habit

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of body, and more particularly what concerns the Wound. And in these Gun-shot-wounds it may be convenient the Body be gently purged by Lenitives only, as is formerly said; Purgatio enim per alvum plerisque vulneribus prodest, you thereby carrying off the bilous and serous humor, which from their heat and tenuity, are most apt to ferment and slow into these wounds, and cause Pain and Instantation, and other ill symptoms. In which cases use Cassia, Manna, Tamarinds, Syr. de Cichor. cum Rhabarb. Ros. solut. These are lenitive, and may be taken in Whey or Ptisan, and are sit to prepare the sumor.

But as for stronger Purgatives, Hipp. saith purging. well, Costa sunt purganda non cruda, which is more especially true when you speak of Scammoniate Medicines.

Having thus proposed a general way of purging, you must consider the necessity of your particular case; we shall now again prepare our dressings, and look into the wound, and apply such Medicaments as may be sit for the quality thereof: And now it is necessary your Fomentation be ready, where-out may be wrung a hot stupe; to which end,

R. Sumitat. Hiperici, Centauri, Scordii, Absinth. Fomentaan. m. j. Flor. Ros. Rubr. Chamom. Mililot. Sambution. ci, an. m. s. Furfuris p. j. coq. in Aq. Fontan. ad thij. s. colat. adde vini Austeri thj. sp. vini zvj. ft. Fotus: These will give a breathing to the parts, and defend the Wound from the Air while you consider it. If all be well, proceed with the same, but if it be accompanied with pain, foment with this 4 decocti Rad. Althe. malvar.

foli

If pain.

fol. verbas. Chamom. Melilot. sem. lini. fanngraci. boiled in Sheeps-head-broath, or other; and of the faces of this Fomentation you may make a Cataplasma, adding farina horder to s. sem. lini. Cydinior pulv. an. 3 j. ung. Basilic. & ung. Dialthe.an. 3j. aux. porc. vet. qf. Croci Dij. four whole Eggs, and apply it over all, or the former Cataplasma. It cherishes the heat of the part, furthers suppuration and is Anodyne. You are to make the Bandage as before, and continue this way of dreffing to the seventh or ninth day, until you have digested the Wound, and the Escar is separated, and that you have laudable pus (as you are wont to call it) which is Album, aquale, leve & minime fætidum, Equal, white, light Matter not fœtid or ill scented; then we must seek for other kind of succour, which may restore the wounded part to its former fanity.

If after separation of the Escar parts be not well digested, or want detersion; u succ. Agrimon. Centaur. min. plantag. Apii an. 3j. Mucilagin. hordei Ziiij. boil these together; adding Terebinth. venet. 3iij. Mel. Com. 3ij. farine hord. cribrata 3iij. Croci pul. Dj. st. mundisicativum: To this you may add Aloes, Myrrha, Sarcocol. Rad. Aristoloch. Gentian Ireos, for the Incarning these Wounds: If you desire rather Injection, the same Ingredients may serve. But in the use of Injections do not stop the Orifice to keep the Liquor in, for you so distend the Ulcer and make it more sinuous.

CHAP. IV.

Of Accidents befalling Gunshot-wounds, and of Sinuous Ulcers.

But from the first to the eleventh day; many Accidents are wont to happen to these Wounds, which not onely impede the Cure, but often, without timely help, destroy the Patient. And these are venement Pain, Inslamation, Erysipelas, and other deadly Accidents, as Gangreen and Sphatelus, all which take their beginning from inslamation. Therefore I have elsewhere particularly treated of Instamation and Erysipelas, hat you seeing what it is may in its beginning prevent its increase: It commonly protected from a very ill habit of Body, or from the ill handling of these Wounds in the beginning.

The remedy is to prevent the Influx of more numours, & evacuate that which is already falen into the part. The first way is by bleeding argly and purging, both which are directed you in the first dayes work, if you omitted

hat then, you must perform it now.

The second way is by Externals; and that s by Anodynes, which may mitigate and repress

the heat of the part; as also by Discutients and Concoction of the matter in the part affected; which is performed by those Medicaments which were proposed in the Cure of the Wound, with observation of dyet,

The Prevention and Cure of these, with the manner of handling them, you may see more particularly in the Treatise of Phlegmand Erysipelas, how in the beginning it is to be done with Refrigerants and Repellents; and in their state by moderate Calefaction and Discontients: and afterwards by Dissipants and higher Discontients, to which Treatise I refer you.

Gangreen

The next and most cruel symptome, is Mortification of the part, which so often attends great Inflamations; and is shrewdly to be fuspected, when they yield not readily to Difcutients OF Suppuratives. In their Wounds it happens most commonly through a Suffocation of the natural heats of the part; or through the great concourse of humours, or too refrigerating and repellent applications, in the time of great Inflamations and Erysipelas, which have infeebled and hindered the transitus of Spirits into the part. It is perceived by the change of colour, it begins to look Lie vid, the lips grow flaggy, the tumor finks, and it gleets and is bliftered, and blew spots after a while appear.

When you see such a change begin, your must presently prepare to withstand a Mortification by Scarification, until the blood come not onely about the lips of the Wound, but deep into it through the Escar to the quick

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and fuffer it to bleed freely, and make the party fensibly feel, that by fuch means you may disburden it of part of what would have choaked it, and make way for the entrance of the force of the Medicine.

Then foment the part with a good Lixivium made of Ashes and Salt, with acet. vin. in which you may boyl scord. Absinth. centaur. and fuch like; and after Fomentation wash the scarified parts, and dress the Wound with Agyptiacum, theriac. venet. dissolved in sp. vini, adding Calcin. vitriol. &c. and a Cataplasm of farine, Hord. fabar. orobj. lupinor. decocted in some of the same Lixivium, adding oxginel to it, applyed over all. But for this I refer you to a particular Chapter of Gangreens and Sphacel, for further directions therein; as the Gangreen, Separates, you are to deterge; to which end use mundificat. ex Apio or Paracels, to which by adding precipitat. you may happily effect your Cure.

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But in the separating of contused parts, as Hamor-I have often told you, great Fluxes of blood rhage. usually burst out upon us. Thus in a Patient Observaof mine wounded by Shot, through the infide tion. of the Radius, upon separation of the Escar, a great deal of blood broke out with impetuo. fity. I stopped the Orifice which was nearest the Artery, with some mild aglutinative Powder; suppose Galens Powder ex thuris part. ij. Aloes p. j. cum pilis, leporinis, &c. The blood then burlting out at the other Orifice, I applyed over that also the same Powder, and rouled up the parts with a good Compress dipt in a Styptick Decoction, laying my common Defen.

tile of Wounds.

Sintious Ulcers.

Defensative over all, and not opening it till See Trea- three or four days after. How fuch Fluxes of Blood from the Arteries are to be restrained.

you may fee in its proper place.

Gun-shot-wounds, the Escar being once fallen out, become Sinuous Ulcers; cially after great mischievous Accidents, and where Bandage cannot be used to preserve the tone of the parts, as in the upper part of the Thigh and Hipp, &c. these Cavities causing much pain to the Patient, and difficulty and trouble to the Chirurgeon, we shall consider their Cure. Our indication therein, is from the parts affected, the largeness of the Wound, Contusion and Laceration of parts: for contufed Wounds, must of course corrupt, and turn into matter.

And if the Bullet or any Extraneous Body be yet remaining in, the parts become more lax. and are accompanied with pain and influx of humours, and the included Body is streightned in its passage out, through generation of flesh, which causeth much difficulty in the Cure; especially if a Cacochymia, or Lues ven.be joyned vvith it, you vvill scarce cure your Patient, vvithout exhibiting Antivenerial and Scor-

butick remedies.

To prevent Sinuosities, you are to enlarge the Orifice at first, or keep it so wide open, that the matter that is daily there ingendred, may have free passage out, which if it may not by the vvay the shot came in; then you must consider, how in another place the Sinus may discharge it felf, this being prudently effected, and the matter thereby dif-

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charged, you shall speedily perfect your Cure, and with ease.

But before you make this Apertion, you must consider, vvhether by altering the Position of the part, or by Compression by Bandage, or by hollow Tents, the matter may not And to make the Cure of be brought out. these Cavities more facile, you must endeavour to place the member in such a figure, as the Wound may be depending, and you must have Stupes, Spunges, Compresses, and the expullive Bandage; these prest out of red Wine, wherein is infused Flor. Ros. rubr. myrtillor. Cort. Gran. Balauft. nuc. Cypress. sumach. acacia, and dress it twice a day, and Injections of the Same Decoction, with Myrrha, Alees, Sarcocell. Rad. Irid. Aristoloch. Sp. vini. mel. Rof. Aq. Calcis, Aluminofa, and fuch like.

Sometimes in a Wound by the upper part of the Biceps diepe, the matter not being likely to discharge it self, I have by a Seton Needle presorated it through, and retaining the twisted Silk, until the parts have been digested, then drawn out the Silk, and by a Tent kept that open a sew daies, until the upper part by good Bandage Aglutinated. Then the discharged matter below being little and good, I have lest of the use of the Tent, and healed

So I have often in Wounds of the Thigh,

where by no Polition or Bandage I could otherwise effect it. And here in the Covent ObservaGarden, in an old Sinnous Ulcer, which dischartion.
ged it self from the right Ilion through under
the Inguen, viz. by the inside of the Thigh four

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fingers breadth below that place. I had great difficulty to make out whither the Sinus tended; at last I found by my fearching Candle, that it wanted a little more then an Inch to pass throughout by the Glutens, and that vvithout any opening that wyay; the matter would continue to make its Cavities, upon which I applyed a Caustick there, vvhither I supposed the end of my Probe tended. Then having taken out that Escar by Incision, I prest with my Probe against my finger which was within the Escar, I there felt the end of my Probe, though at a distance, upon vvhich I passed a long Canula instead of my Probe, and feeling the end of that, I passed then a Needle through this Canula, and so through the Efcar, which I take hold of, and the while pull back my Canula, and the Needle being free from incumbrance, I pull'd it forward, with a twisted Silk at the end of it, and cutting off the end of the Silk from the Needle, I continue the Silk as a Seton there: the Needle, Canula and Silk vvere first anointed with Unquent, Dialtha, or Ol. lilior, or the like.

Observa-

One shot in the Face betwixt the Nose and Eye on the right side into the Ethmoides by a Pistol Bullet, after some years that this Wound was cured, was troubled with a fretting Ichor, which discharged by that Nostril, and at his first arising up in a morning out of bed, would discharge half a spoonful of a yellowish colour, and had made a chop or gutter at the lower end of this Nostrel, by its acrimony. After some while, he could feel upon bending of his head backwards or forwards,

wards, the Bullet to roul to and fro.

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He complained to me of his grievance at the Hagne in Holland, a little before His Majesties going into Scotland. I proposed to him, as the onely way to free him from this grievance, speedily to cut through the ofs. Palati. he assents to it. I placed him in a clear light, one holding his head steadily, I cut into the roof. The Hesh was so close tyed as it would not yield to my Spatula, as I expected; upon which, by a quick working Escarolick held to the place upon Lint a few minutes, I consumed the foft part to the bone. Then I cut into the bone such a hole, as I, by the moving of his Head, could see the Bullet lodged in the hole, but this was not done at once fitting. Yet by degrees the Bullet was taken out, and he eased of that discharge of matter, which threatned a filthy, carious, fistulous Ulcer. My attendance upon His Majesty into Scotland hindred my profecution of that Cure. I left him in the hands of a Chirurgeon there; and fince have often seen him at Court : but the Ulcer did not shut up with a Callus as it might, had it been closely attended.

This way by making Incision, is the speedy Method way of curing all these Sinuous Ulcers, if it of cure in may be safely done without wounding great Illean Vessels, Nerves, or Tendons. Your Incision is to be made according to the length of the Fibres, and a Probe or Canula must be your guide. Having once made your Apertion, you may enlarge it as you see cause by Incision, Gentian, or Spunge, to discharge the impurities of the Ulcer, then digeft it with the

Como

Com. digestive ex Terebinth. vittell. evi, and if there be occasion, you may add a little Mell. to it and Myrrha Thuris rad. Irios, to make it more exiccant, but commonly the depending part opened, the Wound is cured by Bandage, and keeping open this last Apertion a few days. If these grow Fistulous, you shall find the Cure of them in another place.

CHAP. V.

Gun-shot-wounds with Fra-Eture.

Aving declared unto you the way of curing Gun-shot-wounds in the soft and sleshy part; I purpose now to proceed to the curing them, as they are complicated with the fracture of the Bones; whose sirmness, driness, stability and solidity cannot defend them from these Inconveniencies. Nay, in the case I am to speak of, they are rather Discomodities. For when the Bullet striketh like lightning, were they softer 'twere the better, that the Bullet might pass and not shatter them.

Not any of the five forts of Fractures mentioned by the Ancients, which these blows will not occasion. Sometimes they will cleave the Bone, m

Bone, assulation secundum longitudinem, according to the length; and other times they will per transversum frangere, break the bones athwart. Other times they will divide it ad unquem, like the Scales of a Fish. Nay, if the Bones be dryer then ordinary (as in elderly men, and in such as Nature or Diseases have made them so) they will grind the Bone like Meal. Yet I have seen, and drest a Souldier that was shot through the Joynt of the Ancle, without ever breaking the least Cartilage.

The wayes to know when there is a Fracture in the Bone are many; Hipp. bids us compare the found part with the parts affected, and

observe the Inequality.

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Secondly, You shall perceive a Cavity if you touch the parts above and under the Fracture.

Thirdly, If you handle the fractured member, you shall perceive a crashing of Bones, by reason of the mutual attrition of the hard Bodies.

Fourthly, There will be commonly extraordinary pain, in regard of the divultion of the Nerves, and diffortion of the Tendinous Bodies; or the pricking some sensible part, by the shivers of some Bone.

Fifthly, There will be an Impotency of the broken Member, so that the Patient cannot

lean upon it.

Sixthly, The antecedent cause will teach much in this case (Gunshot) then which there never was (or ever will be, I believe) invented a more powerful one.

Seventhly and lastly, The Asperity and In-

equality, or roughness of the Bone manifested to you, but the search will give you no small assurance.

In Fractures made fecundum longitudinem, all Authors agree that the Member which is hurt must needs shew thicker then the other. Concerning Prognosticks, you shall understand,

Progno-

First, That Fractures are more easily cured in young people then in old, for the greater distance there is à pueritia, the more the humidum primo-genium is exhausted. Wherefore in Youth, Bones will be again Consolidated by the first Intention, in others only by the second, Interveniente materia (aliena) que non est ejusdem natura cum osse.

Secondly, Bones receive a quicker Agglutination in Sanguine, then in Chollerick Bodies, by reason of the benignity of the Serum which sendeth out better matter for 2

Callus.

Thirdly, Bones are broke with less danger in the middle, then near to the Joynt; they are both more hard to be restored, and to be kept so restored. And because of the multitude of Symptomes (which in such Wounds cannot but Supervene) are not without great difficulties to be cured.

Fourthly, Those Fractures are dangerous which are made so deep in the fleshy parts, as our hands cannot well come at them, to place

them right.

Fifthly, A great Fracture is of more danger then a small. I term that a great Fracture where the solution of continuety is large, the accidents suddain, many and terrible.

Sixthly,

Sixthly, Fractures made by Gun-shot, are of far more danger then any other, in regard

of their multiplicity of Complicacie.

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Seventhly, Among all Fractures the most tolerable is the Transverse, if it be oblique cis worse; still worse if the Bone be much shivered; but worst of all if the Shivers be sharp and pungent. Amongst the Cruisers in particular Frigots from Dunkirk, it was complained that their Chirurgeons were too active in Amputating those fractured Members, as in truth there are such filly Brothers, who will brag of the many they have dismembered, and think that way to ly themselves into credit: but they that truly understand Amputations and their Trade well, know how villanous a thing it is to glory in fuch a work.

In the Roman History you will find it was not allowed at all. Livy tells you their reward among them. But later Experience judgeth it commendable, if it be necessary, and done in its proper time, that is to fay, fuddenly; whereas Amputations the next day

are worse then death to them.

Not so in proper time; for in the heat of Observa-Fight I cut of a mans Arm, and after he was laid tion. down, the Fight growing hotter and hotter, he ran up and helpt to traverse a Gun, and a Walloon, while I was cutting of his Legg, cryed; Depeche vous con nous vendrone a terre nous bivron, Haste ye, haste ye, when we come a shore we will so drink: But amongst us aboard in that Service, it were a great shame to the Chirurgeon, if that the Operation were to be done the next day, when fymptomes were upon the Patient,

Cure:

Patient, and he spent with wvatchings, &c. Therefore you are to consider well the Member, and if you have no probable hope of Sanation, cut it off quickly while the Souldier is heated and in mettle. But if there be hopes of Cure, proceed rationally to a right and methodical Cure of such Wounds. This fol-

lowing Method is best.

Cleanse the Wound first from all strange Bodies, as Bullet, Armour, Apparel, Shivers of Bones. If the Fracture be near a Joynt, the violence of the blow will many times add a Dislocation also to it. If that happen, restore the Joynt first to its place, before you meddle with the Fracture; thefe dislocations are made by great Shot, or pieces of great Wood, whose force shatters the Limbs in pieces, or carrying it quite away: but this later I never see so done, but that when the Member is shattered it hangs by the side, by some little part of the Musculous Flesh and Skin.

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Smooth

Here your work is with a good Razor or thestump. Knife presently to plain the Stump, and pull up the Flesh, that you may saw off the end

of the Bone as even as may be.

Observation.

In one of these, whose Arm was shot off above the Elbow, in haste we drest him up, his shoulder proved out of joynt: The next day we could not set it by reason of the Anguish of the stump, it was a greater pain then his Wound, and pained him for some months after, but it happens often and in short stumps is remediless. One of our Captains Reformadoes had been served so formerly with his stump.

If you will endeavour the remedying it, you must do it by help of a Bandage, made above the stump, but if it be above the Elbow, how will you fasten it? yet in some Bodies they will be restored easily, therefore attempt it before you dress the member.

In another that had his Legshot off in the place Observaof Amputation below the Knee; some two months tion.
after, when I wondred the Bone would not
scale, I put my Forceps to feel whether any part
of the Bone was loose, and feeling it very loose,
I took hold of it gently, and found it willing to
come away, it was the Apophisis, or head of the
great Bone which makes the Knee. I was surprized at it, but considering what is loose must away,
I pull'd it out to the amazement of the lookers on,
this was relaxt from its ligament, by the force of
the blow.

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In these fractured Wounds made by Gun-shot, the Chirurgeon ought to propose two things to himself, first the Fracture, and then the Wound. To proceed orderly you begin with the Fracture, viz. by Extension and Coaptation, that thereby the Fracture may be reduced to its proper seat; which in all these cases must be performed with much steadiness and discretion, not with such force as in them without a wound, lest the Musculous or Nervous parts being torn, bruised or crushed, should cause extreme Pain, Convulsions, and Mortification (and that which in special we seek to prevent) death may unaware ensue.

And therefore this Operation would, if it Dissocatipossibly might, be dispatched presently after ons when the receipt of the Wound, before Inflamation to be recome on; but if the part be accompanied with a duced.

Flux

Flux of Humour and Inflamation, before the Patient be brought unto you, then you must forbear the Extension until the third, seventh, or eleventh

day, according to Hipp.

And if it should so happen, that through such Inflamation the Operation be delayed longer; it is then to be feared, Putrefaction, and other ill Accidents will happen, and your Patient run great hazards of his life, or a continual lameness of that Member.

The Extension made moderately; fit the Bones into their former place, with what gentle dexterity and lenity you can possibly. If the Wound be narrow, dilate it by Incision at the first, for these Wounds require more dilatation than any other, that not only the brussed and vitiated bloud and other excrements, may have a free passage; but that also by this means the shivers of Bones, of which these Wounds use to be very full, may with less trouble be discharged by nature, or extracted by your selves.

Dreffing.

If you make not this dilatation in the beginning, you may afterwards perhaps be forced to do it, when the part is accompanied with great defluxion and pain, and the bones altered by the retention of matter, and not only to cut and open the Wound to the vexation of your Patient, but to keep it so dilated.

Now consider whether the Bone be bare or not; which you may satisfie your self in by your Eye, or your Finger, and the slipping of your Probe. If it be, you must apply next to the Bone some dry or exsiccant Medicine,

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sicca, siccis Gaudent, dry to dry. Of this fort are dry Lint, Powders of the Dreiling roots of Iris, Myrrh, Aloes, Thus, Spirit of of Gun-Wine; take heed of Oyl, for it makes the Bones Fractures. apt to foul, and hindereth Callus. This done, proceed to the Wound, which is alwayes with loss of substance, and commonly with lacerated Flesh, what of it cannot be restored to good purpose cut away, and dress up the Wound with your Suppuratives warm, as hath been proposed in simple Gun-shot, with an Emplaister of two parts Diachalchith, and a third Paracelf. with Ol. Ros. or Empl. de minio malaxt. with Ol. lumbric. over the Wound, and over the whole fractured Member, this Empl. Diachalcit. with the addition of Colophonie, pal. Rad. consolida. Mai. Bol. Armen. cort. Granator. Succo plantag. Ol. myrtill. Lumbricor. & cera, qs. as a Cerote over all, or double cloaths dipe in a red Wine vvarm, wherein hath been infused Flo. rofar. Rubr. Balauft. sumach. Baccar. Myrtill. Sumit. Absinthii, &c. Ol. Ros. &c.

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The third Intention which is required in Deligatithese fractured Wounds, is Deligation; on. for unless they be rightly fitted, none of these Fractures, of what fort soever, can hope for perfect Unition and Cure. In Simple Fractures without a Wound, all kind of Bandage may be admitted, whereof you Bandage may see in my Lecture of those Fractures tobe o ivarious forts, with many circumvolutions ly loofeabout the Member. And once in seven Gun shotdayes opening will ferve your turn. But wounds in these another method of binding is re- with Fraquired, for here the Bandage is to be cture.

loofned

loosned daily, the Wounds lookt into and drest: They being here to be long kept open, for discharge of Excrementitious and Purulent matter made in them, which otherwise

would corrupt the Bones.

Manner of Bandage in Gun-shot with Frastures

Therefore in these like Wounds, you must use such a Bandage as may least shake the fra-Aured Member, for these Wounds being every day to be dreft, the fo often rouling up the Member would cause grievous pains, and hin-Therefore it is that Authors have der union. invented so many kinds of Bandage, to answer the intentions of dressing the Wound, and yet keep the Member immoveable. And your Bandage in this case, is to be made of softer and broader linnen clothes, then that we use in Simple Fractures, that it may comprehend both the Fracture and the Wounds, keeping the lips down, yet not hurt them, by its too hard compression, Minus astringende sunt fascie quam si vulnus non adeffet, faith Celsus.

Therefore we make choice of a piece of Cloath foulded three or four times double, to give them the more strength, and of such breadth to incompass the lips of the Wound and fractured parts; and of that length as to come once about the Fracture. It is to be cut into three pieces from the ends to the middle, which middle lyes undivided underneath, to bear more equally the fractured Member; and these ends to come over one another, with a Compress between, over the Wound, to press the lips of the Wound equally down, which would otherwise become crude, and put out great lips. The Compress also serves to receive the

the matter, and fills up the inequality: Thefe are so to be fastened, as that you may dress and undress the Wound without disturbing the Member.

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But for that it happens, that in these Gunshot-wounds the Bones are shrewdly shattered, and the Wound lacerated; and by reason of the largeness, the Wound is most painful, and the part fo weakned by its Fracture, as it cannot be kept fleady by this Bandage : therefore we make use of Ferula or Splints; where- splints. of I have made mention in my Lecture of Fra-Aures in General, with the Judgment of the Ancients, who have been very Industrious in contriving wayes to make equal compression, and leave a way for the dreffing of these compound Fractures.

Their use is not to be until the Inflamation When to and flux of Humours be off, which is not until be used. after the seventh day: Mean while I propose Splenia, which are linnen clothes foulded four times double, and cut in length and breadth like the Ferula, so as it may encompass the whole Fracture: these are to be spread with Galen's Cerote, or any Oyntment, so thin as they may adhere to the part only until you have put that Bandage over it; and this is that I propose where there is pain and fear of Inflamation.

These will handsomely strengthen the part, and make fuch equal compression, as the Bones may be kept in their place, the serous humours prest out of the Cavernula, and the fractured Member lye foft, which is a great help in thefe Wounds; the whole welfare of the Patient depending

Paftboard.

Lamina

pending upon the easie Bandage and Position of the Member. The Pain and Inflamation gone off, and the Wound digested, (or if you think the Member not so subject to Inflamation, and that it require a greater strengh to support it) you may use Pastboard cut into pieces proportionable to lay over those Splenia, or having fastned those Splenia by the broad Bandage with three heads, cut a peice of Pastboard fit to receive the lower part of the Member, wet it to make it more pliant, cutting a place commodiously to dress the Wound at. Under this Pastboard three Ligatures are to come, which, after you have placed another Pastboard above to answer that underneath, you are then to firm close by these Ligatures in the most convenient place, for the ease of the Patient : or if the Splania be wet in whites of Eggs and applyed, they will strengthen the Member, and keep it steady, without those of Past-bord. To this purpose we also use Lamina, Copper or Tin or Plates. Plates with foft linings to receive the fractured Member, with cuts in the out-fide to receive three Ligatures answerable to the first underneath. These are to fasten and loose at pleasure, without disturbance to the daily dressing of the Wound. These Lamine, or what ever else you use, must have a large cut in them, for the Wound to be dreft through.

But I have alwayes observed inconvenience in these Plates, that there being not so good Compression made upon the lips of the Wound through those holes, as to hinder the lips from thrusting. There arises a laxity and indigesture in the Wound; and besides the matter

that

that so discharges; heats the parts, and in hot weather corrupts and breeds Maggots.

Therefore I make the Pastboard or Lamine over my first to incompass somuch of the lower parts as may support the Fracture, and come within an Inch of the Wound. And over the Wound it self I fasten a Splenium of Cloath, folded four times double, or a Ferula of Tin, Copper or Pastboard lined, and this accord-

ing as I judge, the part can bear.

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The first Bandage next to my Cerote, makes an equal Compression by its three heads meeting over one another; the lowermost presseth the Influx from below, and with the help of its next fellow keeps the Bones together, and presseth the matter out of the Wound; and (by the help this middle hath of the uppermost) the matter is also prest out of the upper part of the Fracture and Wound to the Orifice, which also hinders the Influx from above, strengthened by a defensative lying under it. In the dressing these Wounds, you are onely to undo the middle Binder to come to the Wound, having a special care that this Bandage be neither too hard or flack, but indifferent, to the ease of the Patient.

Having thus proposed to you the vvay of deligation, I shall now proceed to the last Operation performed in these Fractures of a Wound, vvhich is a commodious Polition or of the placing of the Member; which as I have told part, you in the Lecture of Simple Fractures, ought

to have three Conditions.

1. Soft, least the Compression offend the hurt parts, and cause Pain and Inflamation.

2. Equal

2. Equal, for if the Member be placed of therwise, it becomes distorted, and the Ope-

ration succeeds ill.

3. Lastly, It must ly higher then the parts next the Body, especially the first three or four dayes, for if it incline downwards, the humours by their own weight, will easily flow to the part afflicted. How this Position is performed, I have set down in the Lecture of

Simple Fractures, to which I refer you.

The fractured Bones of the voounded part thus restored to their natural places, and the Wound digested, and Instantion and other Accidents gone off; you shall now unloose the Bandages, and take of your restrictive Medicaments, and apply the Emplaster Cattagmat. in our London Dispensatory, or of these underwritten over the fractured Member, which may add strength to the part, and surther the Generation of Callus.

Re Resina, abietis, cera an. 15 j. pulv. cort. Tilia 3 iij. succ. Geran. 3 iiij. cog. ad Cerot. consist.

Or this ;

Re. Mucilag. radic. consolid. ma. visci pomor. & populi an. Ziiij. succ. Geranii Zvj. lap. osteocolla Ziij. pul. cortic. Tilia Zij. Vittel. ovor. Nexx. Terebinth. the j. s. ol. Lumbricor. Ziij. coq. omnia bene permixta ad ceroti consistentiam, pro usu. But if you conserve the temper of the part, you need not doubt of Callus. I commonly in these cases make use of Emp. stilt. Paracels. p.ij. Empl. Diacalcith. p.j. over these a double Cloath dipt in red Wine, wherein hath been boyled some of the above mentioned Plants.

And now place the former Bandage again;

and

and over those Lamina of Copper, or Tinlined; or in the place of these, you may add those Splenia of double Clothes dipt in whites of Eggs, and wrung out hard, they will sit close to the part, and after they are dry, will support the fractured Member well.

But if it be in the Thighs, the Plates are best, that part requiring such as are of great strength and length, and such compass, as may take in half the Member, you are now to forbear the use of Suppuratives, and use such Medicines as are detergent, as

the Mundif. Paracels. Or if you please

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R. Vinca pervinca, Pati, persicaria Beton, an.m.j. flor. Hyperici verbasci, an. P.j. rad. Aristoloch.utri-usque an. 3 ss. Thuris; myrrha, sarcocoll. Iridis an. 3ij. coq. in vino Albo addendo colatura mellis rosacei, q. s. This may be cast in with a Syringe, it will deterge and incarn; or by the addition of Terebinth. Wax and Oyl of Hypericon, you may form it to an Unquent.

If there be Caries you may make a Decoction of Scordium, vinca pervinca, pucedanum gentian cortic. Guaci Rad. Ireos myrrha in Wine, and adding sp. Vini or the Extract. scordii. If the Caries yield not to this, touch it now and then with some of the follow-

ing Medicines by a Probe armed with Lint.

R. Ol. myrrhæ distillat. per discentum & purificat. cum sp. Vini z ss. olei cariophil. Zij. ol. sulphuris zj. ss. m. This will in a short time remove the Cariosity,

afterward proceed by Epuloticks.

Vulnerary Potions are here of great use: as this, R. Aristoloch.rot. Zij. fol. serpentaria, consolida utriusque Geranii Columb. sanicula an. m. j. make them into gross Powder, & boyl them in Wine in a Vessel close stopt to a Gallon, give the Patient this, morn-

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ing

ing and evening Ziiij. at a time: you may give in this of Osteocolla Zj. poudred, or in a draught of the Decoction of vinca pervinca made with Wine, for confirming and hastening the Callus; in the rest proceed as in the latter end of Simple Fractures.

A Souldier being shot by a Musket Bullet into the forepart of the Arm, near the Biceps, and out behind, the Bone fractured: I endeavoured by Extension to place the fractured Bone even together, but could not; upon which I dilated the lower Orifice by a large Incision, according to the rectitude of the Member, to pull out those fragments of Bones which hindred their right Coaptation; and putting my finger into the Wound to that purpose, I pull'd out a ragged piece of a Bullet, whether it was part of that which had passed through was the question; some of the By-standers thought he was shot with a brace of Bullets; but I rather think the Bullet was torn by the Bone, and that the other part was it which had made its way thorow: however by this extraction the main Bone was rightly placed, and the Shivers, with the Extraneous Bodies removed, and the matter happily discharged by this depending Orifice, and the Patient as happily cured by the common Intentions of curing these fractured Gun-shor-wounds.

Whereas if I had taken it for granted, that the Bullet was passed through, and contented my self in having endeavoured the reducing of the fractured Bones, and so dress him up, it had certainly Inflamed and Gangren'd: This confirms that doctrine in setting of Bones, that if any Bone will not be placed equally amongst his fellows, you ought to

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cut upon him, and take him out.

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CHAP. VI:

A Fracture made by a Splin-

N heat of fight at Sea, amongst the many wounded men that were put down into the Hold to me; one of them had his Arm ex-Observatremely shatter'd, it was about two fingers breadth tion. on the out-fide above the Elbow, by a great Splinter.

This mans Arm I ought to have cut off prefently, but a sudden cry that our ship was on fire. put me in such disorder, that I rather thought of faving my felf, than dreffing my Patients. I hastily clapt a dressing upon his Wound, and rouled it up, leaving his Arm in his other hand to support it, and endeavoured to get up out of the Hold, as the others did; I verily believing I should never dress him, or any of them

But our men bravely quitted themselves of the Fire-ship, by cutting the Sprizil Tackle off with their short Hatchets (which they wore during fight sticking in their Shashes) we were freed of the Fire, and by our hoisting up the top Sails got free of our Enemy.

Now

Now I was at a loss what to do with this man, who lay not far off complaining of his Arm. I would have cut off his Arm presently with a Razor (the Bone being shattered there needed no Saw) but the man would not suffer me to dress his Arm; he cryed, it was already

dreft.

The Fight over, we got into the next Port; I caused presently the Mariners Bed to be set up (which was four pieces of Wood nailed together and corded, and a Bears skin laid upon it, this was fastned between two Guns to the Carriages:) Upon this I see him placed, he was a lean man, above thirty years of age, of a good habit of Body; it was the right Arm, which I caused to be laid outermost, that I might the better come to dress it.

I having my dreffings ready, I laid them orderly upon a small Pillow well stuft, and quilted in the middle. Upon this Pillow I first laid a soft double linnen cloath, then next I laid three Ligatures, then a Past-board wet in Vinegar, to make it more foft and plyant; upon that I laid a double cloath of fuch length and breadth, as might ferve to encompass the fractured Member, this cut from each end to the middle into three Binders. Over the middle of this I placed a Splenium of cloath four double, four fingers breadth, and of fuch length as to give strength to the Fracture: Over this lay my Defensative, spread upon a thick Cloath of such breadth and length as to take in the whole Arm. Dreffings thus laid upon the Pillow, I cut off the dreflings from his fractured Arm, and placed the Pillow with these dressings close

close by his side, so as I see his Arm laid as I designed upon my Restrictive, and his hand upon his Breast. Then I put my singers into his Wound, and pull'd out a piece of a Splinter an Inch thick, or thereabouts, more or less, then Rags and Bones great and small; I lest not the least shiver.

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When I had so cleared the Wound of all the extraneous Bodies and loose Bones; I was amazed to feel what a distance or void space there was between the two ends of the Bones: But I proceeded and cut off the lacerated lips, which were of no use, and drest up the ends of the Bones with a couple of Dossils dipt in sp. vin. & Mel. Ros. vvarm, and the rest of the Wound I drest as vvarm vvith Axung. porcin. Mir. pracepitat. vvith some little Ol. Terebinth. mixt upon Dossils lightly within the Wound, and upon Pledgits without, and an Emplaster Diacalcit. malanc. vvith Ol. myrtil. over all the Wound.

Then I embrocated the fractured Arm vvith Ol.myrt. & olivar. Immatur, and a little Acet. and brought my Emplaster Defensative, vvhich lay under the Arm, over the vvhole Arm, from the Axilla to the Elbow, and round the Arm close, only leaving a space to dress the Wound.

This gave a strength to the weak Member, and hindred the Inslux from above. Just under this Emplaster there lay a Splenium, to answer that I applyed three more, one on each side, and another above, which four vvere of such a size, as they lying a little off from one another, encompassed the Arm; they vvere spread lightly with a little Cerote, Axungia and

and wax, to make them adhere where I placed them.

Then I brought the Bandage vyhich lay under the Splenium, with three heads at each end, the lowermost of these took in the lower part of the Arm from the Elbow upward, vvith part of the Fracture, and was fastned on the outer part of the Arm; this prest the Sanies from below to the Wound, and hindred the lapse of matter that vvay. The middlemost was made to press the matter out of the Wound, and keep parts close for unition. The uppermost served for restraining the Influx, and press that out vyhich vvas already in the part: this Bandage vvas made vvith great moderation, and so sastned, as they might be loosened yvithout trouble to the Patient.

Then I brought the vvet Pastboard close to the sides, and cut another piece to answer it, which I vvet in Acet. and by the three Ligatures under, made them fast, but vvithout disturbance to the Patient. If it could not have been so put on, I should have forbore the use of them: the Cure of these consists in the easie dressing and quiet position, vvithout that you vvill not cure one of these compound Fractures; the Pastboard as it dryed, received a shape sit for preserving the Fracture in the position I lest it, and that vvith a very

flack Bandage.

Thus I finisht the first dressing, leaving my Patient in much ease, he slept pretty well that night, and was the next day as well as I could expect; he was let blood the second day, and kept to a spare Diet, but we allowed a little

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The third day I drest again, took off the upper paste-board, and loosened the Heads of the main Bandage, took off that Splenium which was over the Wound; raised up the emplaister from the wound, took out many dossils, found it warm and well-disposed; drest it up quick with my Suppuratives hot, and an emplaster as before, not stirring the restrictive; made now a compress more particularly for the wound, purpoling not to remove the two outer heads of the main Bandage, unless it were sometime to give a little breathing to the member; but the middle I open'd as often as I thought fit to dress the wound, the other two had short Splenia to make the Bandage equal, but I was not then fatisfied how this Arm would be supplied with Bone, yet my Patient was easier then any of my Patients with fractured wounds.

When it came to my turn to be visited by my Brother Chirurgeons of our Squadron, they did not dislike the wound nor my way of dressing, (for we being used to see one anothers Patients, had all much one way of dressing) but they laught at the excuse I made for not cutting off his Arm, and doubted I should yet be forced to do it. But I kept my Patient stat on his back, and that after a while was his greatest pain, for the Wound digested and the tumor was never considerable.

After the wound digested and a separation made of the contused slesh; I then renewed the dressings, taking all off and somented the member with vvarm vvater, to give a

breathing to it, and applyed a catagmatic Emplaster, and drest the Wound with a mundificative Parac. or such like, and bound up the Member as at first, and so continued my way of dressing as I see cause, putting into the Wound only a Dossil or Tent made upon a skewer soft and hollow to give vvay to the Wound to incarn, I scare ever using Injections, but by gentle compression assisting Nature, who seldome fails in supplying the lost substance in Wounds, if we disturb her not by

improper applications.

The next opening and dressing of this frachured Member was occasioned some sixteen or seventeen days after, by a troublesome Itching; of the patt; which was I suppose partly from his liberty in diet, the heat of the weather, and want of perspiration: I then took off the: Dressings, and bathed with Sea-water, and dress him up with Emplaster de lithargiro; the: Wound was about this time well incarned within, and the Lips beginning to cicatrize from their edges, I dressing them with Epuloticks, as ung. Tutia, &c. yet I kept my Patient still upon his back, and renewed not the whole dressing until I was necessitated, which was about the sift or sixt week.

One day coming from the Shore (vvhere: those of our wounded had liberty to lodge: if they desired it, and vvere drest by us there)) I found this Patient vvith a heat all over: his body like an Erysipilas, he was much frighted at it, he had it seemed drank Wine: a little too liberally vvith his mates, (as they would most of them do if they vvere:

any thing wvell) unless it rather proceeded Eryfipelas from a generation of Callus, in which case upon the it usually happens. I let him blood, and at generatinext dreffing finding his Arm pretty ftrong, Inc and his Wound healed within, and in a fair vvay of cicatrizing, I raised him up, after he had laine about eight vveeks. All vvhich while I believe he never stirr'd his Arm from the time I placed it, but in the time of renewing the dreffing, he being the most patient man in that respect I ever attended ; and in truth vvithout that submission, he could scarce have been cured.

There was in this Patient a strong Callus, filling up the void place of the lost Bone at least two Inches, with little or no shortning of the Arm; but the Joynt of the Elbow vvas so stiff from the position it lay so long in, that he could not ftretch that Joynt whilft I knew him, vvhich vvas until that Ship vvas

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My memory will be much cryed up for remembring fo many particulars in a Patient, fo many years since cured by me : But if you confider how remarkable a cafe it vvas, and in my Trade, there will be the less wondering at the possibility of it. You may enquire what vvas done by me in the Cure of Capt. Reade, vvbere the loss of his Jaw was supplyed by a strong Callus, and that Cheek uniform with the other, and vvill be long remembred by the then standers by, though not of the Profeffion.

In our Sea Fights often times a Buttock, the Brawn of the Thigh, the Calf of the Leg Leg are torn off by Chain shot and Splinters; all these are contused Wounds and look black, and do too often deceive the unexperienced Chirurgeon, he taking them by their aspect to be gangreen'd, and by dressing them as Gangrena, vvith Agyptiacum and Spirit of Wine, hath either gangreen'd them, or drawn the other Symptomes upon them of Pain, Fever,

Delirium, Convulsions and Death.

Whereas if they be considered rightly, though they look as shesh long hanged in the air, of a dry blackish colour, yet they have vvarmth, and vvill by Lenients, as is prescribed in Simple Gun-shot-wounds, digest, and as Separation is made they vvill deterge and incarn, but they are slow in digestion, and require good Fomentations and Embrocations to cherish the native heat, vvhich is much vveakned by so great a loss of substance.

These require Oleum Terebinth. to be mixt vith your digestives, but you must have a care you do not instame and cause Pain, by adding too much of it. A spoonful to six Ounces of your Suppurative is enough in the dryest habits; your Judgment vill best direct you, and your Patients complaint: it being unreasonable to hope that Wounds can digest, ville they are accompanied vith much Pain.

In the former Sea-fights vvith the Dutch; Capt. H. had his Hand shattered, and his Fingers torn off; Mr. L. was his Chirurgeon; who entreats me, being call'd into counsel, not to think of cutting of his Hand; I told him

of the Bone vvithin hurting the Nervous parts, occasioned those convulsive twitches and pain he was subject to and often felt; not-withstanding I promised to comply with him, if he vvould follow such Methods as I vvould propose, vvhich he agrees to, but does not per-

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I came two dayes one after another, but finding nothing of it done, at the next meeting he pretends an Excuse, not to dress the Patient. I then discover his craft, and that he had used me onely to defend his Credit, which was questioned for the not taking off the Hand at first, as he ought to have done, of which he now faith I was the cause, having craftily drawn me in to be of his Opinion, though conditionally only; viz. that he should have laid open the Hand, and taken out the Shivers, which if he had done, he might have cured it, as I have done some others, as appears by this Treatise. Of the truth of this Mr. H. is Witness, who also was over-witted by him. Chirurgeon of the Ship committed the first error, he ought at the first dressing, while the Wound was recent, to have pull'd out the Shivers of Bones; or to have extirpated the hand, that being the proper time.

CHAP. VII.

Gun-shot-wounds in the Joynts with Fracture.

to more grievous Accidents, then those I have heretofore mentioned, therefore they require your more particular care. The Tendons and Ligaments being inserted near the Joynts for the motion thereof; as also the Membrains, and consequently the parts of a most exquisite sence. The trunk of Nerves also in every great Joynt passeth through for the use of the Member that is beyond it. To which I add, that the part being exanguious, the natural Balsome of the Body is here more sparingly supplyed for the help of the Cure.

What the pains are may be judged by the Wounds in the lesser Joynts. Capt. F. in Musselbrough fight, was shot in one of his Fingers, and the next day so grievously tormented, as he walkt up and down like a mad-man, could take no rest until his wounded finger was digested, yet his pain was not so great in his Wound, as in his well fingers. The greater Wounds are attended with much more vehement Pain, In-

flamation,

flamation, Dilirium, Convulsions, Gangreen, and are commonly deadly. Therefore the shot is presently to be extracted, and dressed with such Medicaments as may defend them from putresaction, and these are to be moderately hot and dry of subtle parts and Anodyne; as Ol. Terebinth. de Castoreo scorpion. vulpin. lumbricor. evor. & pul. scord. Thyris myrrha, Ter. lemina pul. euphorbi.

And in these Gun-shot-wounds the Orifices of the Wound must be kept open, that your Medicaments may penetrate to the bottom: But if the Wound be on the inside of the Joynts, they are commonly attended with great Hæmor rhage: For prevention of which, I refer you to its proper Chapter: And in the hrst place pro-

pose this digestive.

R. Tereb. lot. in sp. vini 3 iiij Thuris, myrrhæ mastich. an. 3 j. olei Hyperici 3 iij. vitell. ovor. N ij.

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R. Terebinth. Z ij. myrrha, Thuris, corn. cervi usti. à D iiij. Ol. scorp. de Castoreo tumbricor. sambuci an. Zss. vitell. ovor. N ij. Apply either of these warm. If stronger be required,

B. Ol. Terebinth. Z j Ol. hyper. cum gumum. Z ij. euphorb. pul. Z j. drop this very hot, and apply the first mentioned Digestive over all Embrocate parts about well with Ol. lumbricor. & hyperici, and apply this following Cataplasma.

R. Farina, Hordei & fabar.an. 16 j. flor. cham. Meliloti ros. rub. scordii Absinthii pulver, an. 3 vj. Decoct it in the Broath of Offal. or in Oxymel.

adding Ol. Rof. & chamelamel. Or this,

R. Mucilag. Radic. Althae consolid. ma.an. 3 11138 flor. Ros. rub. beton. cham. subtil. pul an. 3 ss. farine lini.fenug. an. 3 iij. farina, hord. & fabar. an. 3 vj coq. in vino, adde Ol. Ros. & Lumbric. an. 3 j. ss. Mel. 3 ij. vitel. ovor. N iij. The Wound digested, you may deterge with this:

R. Farina Orobi 3 js. Thuris rad. Ireos. an. 3 vj. succi Apii 3 iij. Mel. com. & Terebinth.an. 3 ij. m. F.ungu. The Wound deterged, you may

dress with this Sarcotic.

R. Sumitat. Hyperici equiseti plant. Beton. an. p. j. rad. consolid. ma. Tormentilla an. 3 iij. sevi Hircini 3 iiij. lambric. terrest. lot. 3 ij. Ol. mastichina 3 ij. vini odons. qs. coquantur ad consumptionem vini postea colentur, cum forti expressione, dein. adde Resina pini 3 j. Thuris, Myrrha, Mastich. Aloes, an. 3 s.cera 3 iiij. m. F. s. A. Ol. Aparici is excellent in these Wounds alone, or heightned by any of the former Prescriptions; so is the Balsome in the Chapter of the wounded Nerves.

If the Bone be bare, you must be careful that you do not foul it by your greasie or slabby Medicaments; you must here also consider of Phlebotomy and Universal Regiment. If Pain be violent, and yield not to Anodynes, cut off the affected Tendon, and whatsoever corrupts, least it taint the rest.

But in these great Wounds, you are at first to consider how curable they are, and endeavour to preserve the life of your Patient, by a timely extirpation, before his Spirits be too much exhausted: Of which this following story will give you warning.

A Shot A Page of Lieutenant Gen. D. L. was shot through through the Knee, the Bullet entring in by the

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the lower and outer side of the Rotala, passing through the Joynt out in the hollow of the Ham, tearing the Ligaments and Nervous parts, fracturing the Joynt as it passed, and rending the Artery in going out. This Wound was mortal the very minute it was inslicted, and ought then to have been dismembred: But such Proposals will not usually be admitted of in the first Dressings, whilst there is hopes: Yet the Accidents in these great Joynts thus made are sudden, from the vehement pain. And while Fever, Delirium, &c. are upon the Patient, then to make such an Amputation, most commonly hastens his death.

Wherefore I proposed my first dressing by digestion upon a Pledgit, applyed warm to the Wound upon the Rotula, there being no place for a Tent; and to inlarge the Wound amongst the Tendons and Ligaments, were to adde one mischief to another. I also embrocated the parts about with Ol. Ros. cum Aceto,

applying my Restrictive over all.

In the depending Orifice, there was a throbing of the Arterial blood, as in an Aneurisma,
the blood being choakt in by the contused
flesh, it therefore was not there to be tented,
for fear of making a Flux of blood, nor yet
could we endeavor to stop the bleeding by
Cautery, Actual or Potential, least thereby new
pains should be stir'd up, that part being sull of
Ligaments and Tendons.

Wherefore I drest that Wound with the same Digestive mixt with pul. Galeni upon a thick Plegdit, and some of the same Restrictive over that, with such Bandage as that Joynt was ca-

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of humour, and that by such dressings the Wound would digest, but the pain continued vehement, and yielded to no Application, nor was there any possibility of conveying any Instrument into it whereby I might pull out the

shivers of Bone.

Mr. Penicuke formerly General Chirurgeon to the Scottish Army, was with me at the dreffing this Patient, but proposed no alteration of what I had done, the pains increasing, a Fever was made and attended by Dilirium and Spasme, Death followed, as commonly it doth in all fuch Wounds of the great Joynts. I could instance it in many, but the late case of Sir 7. L. may serve for all; his Wound, as I have heard, was of the Rotula, he had many of our most ancient Chirurgeons, with the most eminent Physicians to help them, Persons who were well experienced in Chirurgery, yet they had no bet-Therefore at Sea while they are warm with heat of Fight, we dismember them, and by actual Cautery stop the Flux of blood.

CHAP.

CHAP. VIII.

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Wounds of the Belly.

Have now briefly run through the Parts not principal; and purpose to fay fomewhat of the principal Parts, as the Belly and Breast. And that you may more certainly know the part wounded, I shall give you a short Description of them; and then shew how they are to be handled in order to their Cure.

The Belly is called Abdomen, or Inferior venter, it begins from the bastard Ribs, and extends it self to the Groins, and is divided into three regions by our Anatomists: The upper, middle, and lowermost. The uppermost is called Epigastrum; the middle Regio Umbilicalis; the Inferior Hypogastrium: The sides of described. the uppermost are the Hypochondria; the right Hypochondrium possesseth all the Liver; in the left is the Spleen, between these is placed the Ventriculus or Stomach. In the middle part E 4

of the Abdomen is the Navel, round about which ly the Guts, and behind those, on each side the Kidneys. In the sides of the Inferior part are the Ilia, the Pesten or Pubis in the middle, under which lyes the Bladder. Thus much to the Internal Delineation.

The Abdomen consists moreover of parts

containing and contained.

Parts containing or teguments of the Abdomen, are either the common, which reach
all over the Body, as the Cuticula, Cutis,
Pinguedo, Membrana Carnofa, or the particular and proper to this place, which are
the Muscles of the Belly the Peritoneum, and
in respect of the Guts, the Omentum. The
parts contained are some of them designed for
the nutrition of the whole Body: others for
Expurgation; and others for Generation.

The Stomack, small Intestines, Mesenterium, vena porta, Cava, Arteria magna, & Celiaca, magna, the Liver and Spleen serve for Nutri-The Bladder, Gall, all the Intestines, tion: but especially the great ones, Kidneys, Ureters for Expurgation; and for Procreation Vasa praparantia & differentia prostata & uterus Which parts containing and in Women. contained are subject to this Gun-shot, whence various Species arise of these Wounds, sometimes the containing parts; as Cutis, Pinguedo, Caro musculosa onely are wounded, so as neither the Peritoneum, nor the other Internal parts fuffer any hurt.

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wounds And this hapned to many in Service; not pene- who have been brought to me as mortally trating, wounded; whereas I upon fearth have found 100

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found the Impression only upon a greazy Leather Jerkin, or their Bellies black or a little Scratcht by the Bullet: In others the skin and flesh wounded and no further, these latter are call'd Wounds of the Belly, not penetrating, and are cured as Gun-shot-wounds in fleshy parts; in which cases all those things are approved of, which have been delivered in simple Gun-shor-wounds.

But this I must take notice of to you, as having often observed, not onely in Gunshot-wounds, but in abscesses of the Belly, that from the laxity of the parts, they are subject to great defluxion, especially in the circumjacent Muscles: to my late vexation, whilst I was writing a rude draught of this Chapter, the matter flowed out upon us, Dr. S. Phyfician, Mr. Gin. and my felf Chir. from various Sinuses raising up the Muscles, insomuch that the more we laid them open, the less hopes we had to effect our Cure. The particular whereof I shall give you in another place, with more of that kind, enough to shew you the laxness. of these parts, which is the greater, because we cannot make such Bandage here as elsewhere, by reason of their figure, scite, and perpetual motion.

These thus briefly considered, we pass to the other Species, for the Bullet is for the most part carried with such force, as it not onely wounds the fleshy parts, but also pierces the Peritoneum, hurting most an end the Internals. Wounds It being indeed impossible that the Bullet penetrapiercing the parts containing, should miss the ting.

contained which are foft and tender.

I have seen sometimes in the Wars, a Souldier shot scarce to the Peritonaum, yet the contusion hath been so great that the Peritoneum hath come of upon digestion, and the Bowels in these commonly labour under Cholicks. and the Patient is troubled with difficulty of

breathing.

If the Bullet penetrates through though no further, yet the Contusion makes foul work and requires speedy relief. But if it hath wounded the Internal Viscera, then you are to consider what the parts are that are wounded, whither the Liver, Stomach, or which of the Intestine's, which you may apprehend from the scite of the part, and the accidents accompanying such Wounds, and by the pro-

per symptomes of each part.

Signs of Wounds of Internal parts of 998011.

According to Celfus, Lib. 5. Cap. 26. Liver being hurt, there follows an Effusion of a gross blood; if the Porta or Vena Cava be hurt, the right Hypochondrium is opprest: If the Artery be wounded, the blood is · florid, and with Impetuolity leaps forth, and the Abdo- death follows. But if the Stomack, Singultus or Hiccup, with Vomiting and Nausea, and his sustenance comes out of his Wound, with the Chyle, cold Sweats, and the extream parts cold : Of the Intestines, if the lesser be: wounded, poraceous Vomiting, what he eats; or drinks, will pass out of his Wound in less; then half an hour.

If the great Intestines be wounded, the Excrements and filthy smell will demonstrate it :: If the Wound be of the left Hipochondrium under the short Ribs, you may conclude the Spleen wounded, Soul:

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wounded, and the blood floweth forth with great Tension of the Hypocondrium. If the Kidneys, the Wound is in the region of the Loins, near the Vertibra, under the Diaphragma, and the more certain fign is, if the pains reach to the Groins and Testicle, with difficulty of Urine mixt with blood, or pure blood voided by the bladder: If the Uniters be wounded, the Urine comes out of the Wound: If the Bladder be wounded, that part of the Belly is tense, pains are stirr'd up in the Groins, and the Urine is discharged by the Wound, and the Stomach suffers by consent, and the part wounded demonstrates it : If the Womb be wounded, vehement pains reaches to the Groins, and the Coxa and the Blood not only flows by the Wound, but per Vulvam they are troubled in mind, with other shrewd fymptoms of death,

For what concerns the Presage of these Progno-Gun-shot-wounds, if they be only in the re- flicks. gion of the Belly, they are not without peril, and much loss in the middle, where the Linea Alba is; but if they penetrate, (as you may know by the figns forementioned) there is great hazard, seldome parts so shattered recover. What I have here feen from a man discharging his Excrements from the Colon on the left side, and heard of other like of the Stomach, are rather Miracles, then the work of the Chirurgeons; but he was happy

that had the managing that Cure.

If Celfus in his time determined thefe Wounds mortal by cutting Weapons, how much more must they be such that are made

in our age by Gun-shot; Yet Nature, assone saith, in his Vulneribus, Sape miracula facere solet, is often as merciful and miraculous;

in the Cure, as the blow was cruel.

Cure.

In order to the Cure, we must begin with the Extraction of the Bullet, least it sink into the most inward parts, and by its hardness offend the Bowels, as also the rags carried in with it, least it beget Putrefaction. Then we are to reduce the Omentum and Intestiness least they be Instated and altered by the outward Air: but in these Wounds they do not: often fall out, unless it be by Splinter, or great Shot. Then Hemorrhagia is to be staid, and Instamation allay'd, and we are to resist the Putrefaction, by bringing these contused and lacerated Wounds to digestion.

The Intestines and Omentum are disposed to reduction by warm discutient Fomentations; but if there be not an opening large enough, you must enlarge the Wound. If the mough, you must enlarge the Wound. If the opening below that corrupted, make a Ligature with below that corrupt part to cut it off, leaving the Ligature upon the rest to fall of by

digestion.

If there be Hamorrhagia, you must inject such Medicaments as have a Refrigerant and Im Astringent quality, and those may be Aq. urtic. plant. Spermatis Ranar. with Syr. de Ros. sicc. with pul. Bol. Armen. ter. sigil. sang. dracou. with pul. Bol. Armen. ter. sigil. sang. dracou. the same Pouders, with a new laid Egg, with the same Pouders, with a new laid Egg, with Ol. Mastich. & Lumbricor. and apply it upon as Tent sastned to a thread, as is before described, and apply the rest upon a Stupe over all.

Wounds of the Stomach and Guts.

Butt

But if there be no Flux of Blood, digest as at, a fait as you can.

Fallopius hath recommended to our use this, by the use whereof he cured a Wound in the Stomach and Intestines.

Be. Fol. Pilosella plantag. rad. Tormentilla con-Volid. maj. flor. hypericii, these were decocted in red Wine; in the latter end of the dreffing adde a little Manna, Thuris, ol. Mastich. Im refin. Abiet. Terebinth. Cypria, croci & verm. mins represt. the Wound within to be drest with this.

If there be Putrefaction, you may use such Medicaments as are fit in that case, but those my dye in great pain: In all these Wounds of the Belly, to stop fluxes of Blood, I use such like Medicaments as I have proposed, and apply to the Wound it self Digestives, as in simple Gunshot, and by good Fomentations, Embrocations and Cataplasma's, cherish the native warmth of parts.

In Wounds of the Kidneys, you are to in- wounds ect such Medicaments as have an Abstersive of the and drying quality as Radices, consolide, Iri- Kidneys dis, Aristoloch. rot. and maj. myrtil. cauda equin.plantag. Balaust these decocted in aq. chaybeat. adding after some Wine, and Mel. Rof.

ligestivum Terebinth. & Integ. ovum with a little Terra sigil. Thus & mastic. & ol. Hyperici, with Emp. diacalcith. malaxt. with ol. Ros. and a Cataplas. of far. Hordei. fabar. & orobi deco-Red in Oxymell. adding a new laid Egg to it,

with Ol. Rof. to be applyed over all.

If the Liver or Spleen be wounded, there Wounds will be great Flux of Blood, in which case I of the Lioffer this to you.

ver , Spleen.

R. &c.

B. Plantag. pentaphyl. polygoni Mille-follii; myrtil. Ros. rub. to these you may adde Thuris, sang. dracon. Bol. Armen. Acacia, boyled in water chalibeated, adding a little red Wine, and syr. de Ros. succ. This may serve for am Injection: if the extravasated blood fall down into the Cavity of the Belly, you must leave it to Nature.

Thus you are to dress all the Wounds im

particular parts of the Belly.

The Wounds of the Womb are accounted deadly, the very least of them: and so are all these made by Gun shot, yet you are to proceed in the universal regiment with Glysterss and Bleeding, and by good Vulneraries: there I Diet here is to be medicated, and all endeavors to dispose parts to fanity, if it were possible.

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CHAP. IX.

Gun-shot-wounds of the Thorax.

Mongst the principal parts which are subject to this divelish Invention Gunshot, the middle Venter or Thorax is numbred with the parts contained in it, viz. the Heart, Lungs, great Artery and Veffels, with the Mediastinum. The difference of these Wounds is as in those of the Inferior Venter: fometimes it doth not penetrate into the Cavity, so as the plura is not hurt: Other times it doth penetrate through the Membrana and Coste, in which case the principal Viscera are wounded or not wounded.

If the Wound do not penetrate into the Not pene-Cavity of the Breast, but be only in the mus- trating. culous flesh, it shall be cured as Wounds in the fleshy parts.

But if the Bullet hath penetrated into the Penetra-Cavity, it may be easily discerned by the ting. Laceration of the musculous flesh, and commonly by the Fracture or Perforation a- Signs. mongst the Ribs, whereby the Wound is left open, and the Spirits and Air pass out with noise; and if the contained parts be wound-

ed, there vvill follow a Flux of blood by the Wound or Mouth, or by both, unless the blood fall down upon the Diaphragma, and then the Symptomes of the difficulty of breathing and such like Accidents, vvill more demonstrate its Penetration. And if the Lungs be wounded, a Cough, with difficulty of breathing, and flux of blood, and sighing often, and a ratling in the Aspera Arteria, the Patient inclining to ly much upon the Wound. If the Heart be hurt, the blood flows vvith impetuosity and reeking hot, their Pulse languishes, cold sweats follow, and they dye.

the

The Diaphragma hurt, draws upwards, the Spine is grieved, very difficult breathing, and unequal and painful, with a hearse Cough, and great pains about the false

Ribs.

If the great Vein or Artery be hurt, a terrible Flux of blood follows; if it flow from the right side, it is the Cava is hurt; but if from the left side, we suppose it the Artery, you will discover it by its saltation and florid colour. The Aorta wounded, that Patient dies at the instant.

If the Spinalis medulla be vvounded, the Nerves are resolved, and a Palsey sollows, more immediately in the part under the Wound. Almost all these Wounds are mortal, they generally dye. But it is not consisting with Religion or Humanity, to leave them without help. And for that I have happily prolonged the life of some, and have known others that have recovered of some

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some of these wounds, in the Lungs and less noble parts thereabouts. I shall therefore proceed to deliver you what concerns their Cure, both as to the Cure. Internal concerning the wound it felf, and to that which relates to the Contusion and Inflamation Externally, to prevent flux of humors, and facilitate the discharge of Bloud and Matter contained in the Cavity of the Thorax. You are in the first place to draw out the Bullets and Extraneous bodies, amongst which sometimes a part of the Ribs are carried in: All these are to be removed, and the place cleared of shivers, lest they prick the membranes, and thereby hasten ill accidents which attend these wounds. You are then to dress the wound with a Tent dipt in this or fuch like, R. Bol. Armen. Corn. Cerv. uft. Ol. Rof. & Sambuci, Farine, Volatilis, and with ovo Integ. Misce; spread a compress with some of the same, and apply it over the wound: If the bloud stop not by this dressing, then it may be proper for you to Inject some altringent decoction, which is otherwise than was advised in wounds made by puncture: For in Gun-shot-wounds the orifice is wide enough for the Injection to return out again; insomuch that not only the Astrictive intentions ought to be pursued, but also the Detersive; here being loss of substance and putrifaction. Therefore boil in Aq. Ger. querc. Fol. Plantag. Ulmi, Urtica, Vinca, Pervince, Roj. Rubr. fol. Myrtil. & Balauft. adding a little Bol. Armen. & Mastich. Syr. de Symphyto 95. and if more astringent be required, boil it in Aq. Fabr. Having thus quieted the bleeding, you are to dress with this digestive, R. Terebinth. Lot. in decoct. Hordei Zij. Pul. Thuris, Myrrha, an. Dij. Sem. Fanug. p. 3j. Ol. Hyperic. qf. dress with a Tent dipt

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dipt in this, then apply over it a Pledgit, with some of the same, or with some of your Suppuratives, as in simple Gun-shot-wounds is prescribed, and Embrocate the breast and parts about with Ol. Amygdul. & Lumbric. with Ung. Dialth. m. and an Empl. Diach. simpl. cum ol. Lumbric: dissol. and after digestion you are to Inject such medicaments as have power to deterge, and are more resolvent, whereby the Matter is disposed to be discharged by the wound; and to this purpose extract. Scordii diffolved in Wine, with the addition of Mel. Ros. is proper, or decost. Pilosella, Canda Equina, Plantag. Tormentilla, Consolida, Aristoloch. Rot. Rad. Iridis, & Sarcocolla, these boil'd in Aq. Font. adding Wine to it, with Mel. Rof. qf. and then you may dress the wound with this Mund. R. Terebinth. 3ij. Farin, Hord Cribrat. 3j. Thuris, Sarcocol. Rad. Iridis, an. Ziij. Mellis Ros. Ziiij. Misce S. A. You may dip your Canula or Tent in this, and drefs the wound in the fleshy parts with the same. The wound deterg'd incarn and cicatrize, as is said in other wounds, but keep a Canula in it, until it cease to run. Celsus proposes, that in all these Internal wounds the outer parts be vesicated, to draw off humors more powerfully from within, and the medicament he proposes thereto is, Sal bene contritus cum cerato mixtus, quia leviter cutim erodit, eoque impetum materiæ quo pulmo vexatur evocat. This his proposal may be proper in wounds made by sharp weapons, as by Arrows, &c. But here in these wounds there is vexation enough outwardly to make a revulsion, if that fignified any thing. In the drefling these wounds you must be eareful to cut off the floughs without, lest from them a stinking Gleet distil upon the Viscera within: And in order

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order to the cure there is required Phlebotomy according as the Patient lost bloud by his wound: Here are also Clysters required to keep the body open, and the more temperate: Pectoral decoctis ons are here proper, such as is in the London dispensatory, omitting the hotter Plants; to them may be added Syr. violar. de cichor de liqueritia, 711jub. Capil. Ven. de symphyto, & Lohochs, and such as may take off the harshness which the Aspera Arteria, and Bronchia are subject to. Their diet is to be slender, and medicated. Hydromel is a proper drink in all these wounds, and may be medicacated with agglutinatives and pectorals added to it, and after Fever and fuch like accidents are diminished, Asses and Goats milk is necessary, year diet of Cows milk alone, or mixt with diffill'd milks, and sweetned with conserve of Roses; but this will be a work for the Phyfician a-shore.

From the defeat of the Scotch-army near Dun- Observabar, there came many of the wounded to St. John-tion. stons, and amongst them there was several wounded into the Breast; they who were so shot as to have the Ribs broken, were in extream pain from the shivers, whereas those whose Bones were nor hurt had scarce any pain at all, but what proceeded from difficulty of breathing and coughing: A stinking Sanies issuing out both before and after the separation of the floughs in great quantity; in one a very great proportion daily, of a brown thin Matter, of a rank smell; none but this died under homes, where (as I have often heard them fay) their Leeches performed great Cures, by vertue of their Plants which they gave Internally, and with Fats they made Balfams of; yet I believe most of these died Tabid.

CHAP. X.

Of Symptomes of Gun-shot, omitted in the Fourth Chapter.

The Symptomes attending Gun-shot, as you have read already elsewhere, are Pain, Fever, Delirium, Syncope, Phlegmon, Erisipilas, Gangrene, Convulsion & Palsie. The Pain proceeds from Inflamation or Phlegmon or Erisipilas, which I have elsewhere purposely treated off, as also of Gangrene; The Fever is Symptomatical, so is the Delirium, & will go off with the Pain, but may with the forementioned be relieved, by bleeding and Lenient purgatives, such as I have mentioned, and to fortifie the Spirits against fainting, which proceeds from putrid Vapours and Pain which may affect the part, there are Cordials and Fpithemata already taught, so that there remains only Convulsion and Palsie.

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Nerves to their Original, by which contraction the Member is also drawn up, and is said to be caused of Repletion and Inanition; In this our case it ariseth from putrid Vapours or Acrid matter offending the Nerves, which is often found in these wounds; The part affected is the Brain, which being thus provoked causeth an involuntary contraction and rigidity of the Members. In parts dismembred, as near the Knee or Shoulder, there the Contraction cannot be discerned but by a trembling.

bling, which trembling is usually attended by a Convulsion of the Jaws: It likewise follows great Inflamations, especially in the Nervous parts; The Prognostick here is always Fatal, they being the forerunners of death. In the Wars I was called Observato fee a poor Souldier who had his Arm shot off, tion. near the Shoulder, his Chirurgeon drest him with Egyptiac, as for a Gangrene, from which sharp dressings great Pain followed, with shivering of the Stump, Inflamations and Gleets, but no change of Colour in the skin, he had roared some days, through the vehement pain; I drest him up with Anodynes, as Linement Arcei cum vitel. evi, fomented the part with fol. malvar.violar.caps. barbat. decocted in laste, and with Lenients Embrocated, as with ol. Lumbricor. & exped. Bovinis, and applyed Empl. Diapalma cum succis over all, and anointed parts about, as Neck and Spine with ung. Nervin. and bliftered the Legs and Thighs, but it was too late; he died howling.

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Paralysis or resolutio Nervorum is generally de- Palsie. fined a privation of Sence or motion or both, in some part or parts, and affects the Brain & spinalis medulla; But in Palsies which arise from wounds, the parts immediately affected are the Nerves of that part only, this doth not take away the life of the Patient, though it may sometimes threaten a Mortification through the resolution of the part. In a Sea-fight an Irish Mariner having discharged his Gun which was hony-tion, combed, and loaded it suddainly again, whilst he was ramming in a Carthage, the powder took fire, and shot the Rammer out of his hand, it did tear the Palm of his hand, and some of his Thumband Fingers: The wound was not confiderable, but it extinguished both Sence and Motion of

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the Member. I dreft him up with our common digestive, of which at such a time we had great quantity ready, and over all a common Restrictive, so rouled him up, there being then no time for bleeding; But after the fight I let him bloud, and the next day or two Purg'd him, and Fomented and Embrocated him, with ol. Lumbricor. Cham. Aneth. lilior. ung. Nervinum, and fuch like I suppose, and did all that we Chirurgeons of the Squadron thought fitting, but without success; one night lying a-sleep in his Hamock, he was awakened by the wet he felt, and got up to a Candle, and found the dreffing upon his hand all bloudy; as also his belly whereon it lay: I was called, taking off his dreffings, found the palm of his hand and fingers gnawed by Ratts, they had eaten through his oyl'd clothes and had knaw'd his hand more if he had not wakened from the trickling of his bloud. I dreft his wound with my digestive, purposing not to hasten its cure. I supposing it might be a help to his recovery. I after the cure of this made him a Fontanell in that Arm, and bathed the Member, Cupt and Scarified it, and afterwards used Emplasters of Pitch, to stir up a heat in the part; but he was a young man and otherwise of a strong Constitution and out of hopes of reward for his loft Arm, he hastened away to Madrid, and at his return had more use of it: These Paralyses do often happen in great Contusions, and after dislocations in the Shoulders, I could initance it in leveral. Dr. T. C. and Dr. T. W. did both fee it in a Lady who had diflocated her Shoulder, I was fent for, and by the help of her Servants fet it presently, and she so well the next morning, as Sir W. G. then present scarce believed it had been out; I was dismist but within month

month after she was so Lame, as it was doubted, whether the Bone was Set or not. A Bone Setter was sent for, who at a time in another person pretended he had set so many Bones, where none were dislocated or broken. This man, I being present, acknowledged that the Bone was well Set; but had I been absent, he would have delivered otherwise, and by new Extension have rendred the part Incurable.

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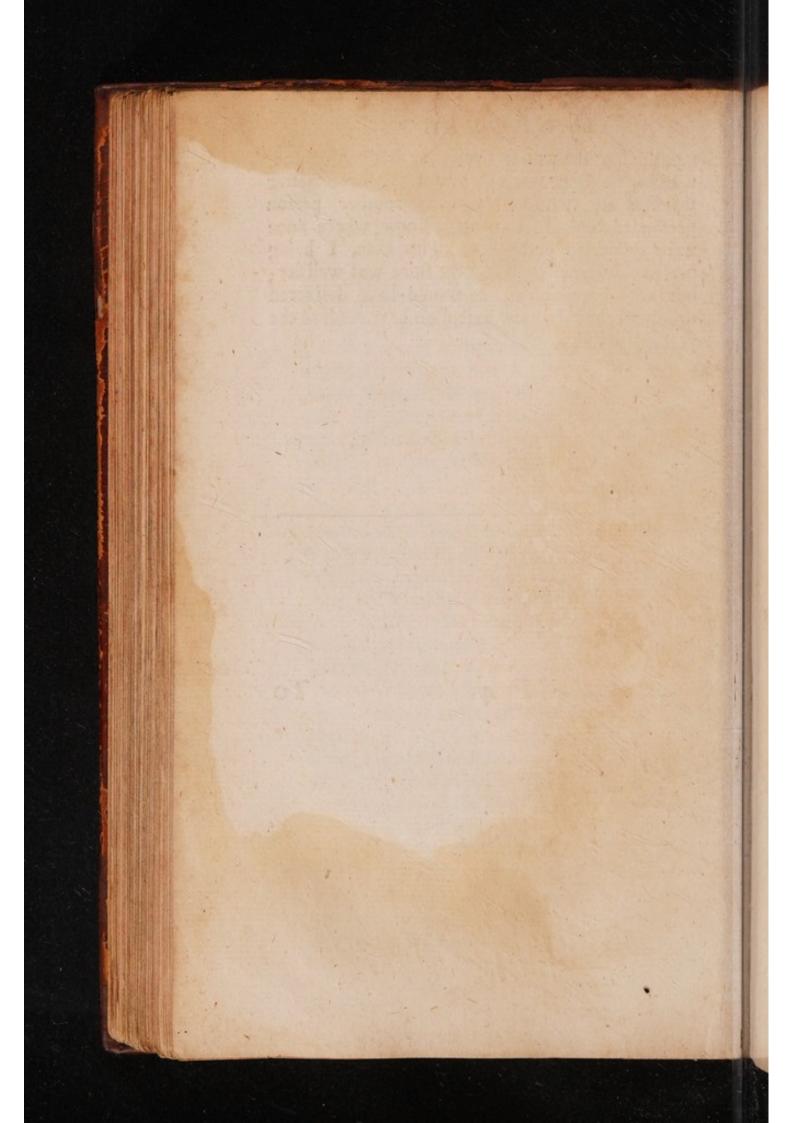
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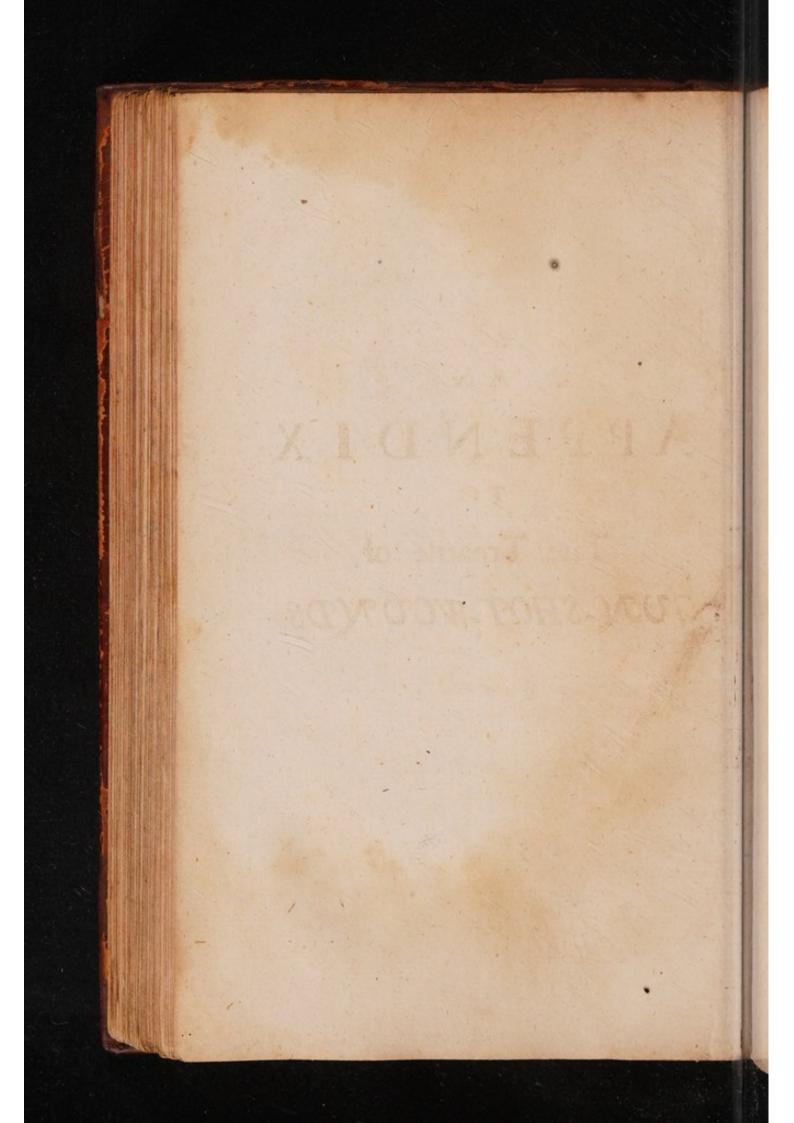
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APPENDIX

TO

The Treatise of GUN-SHOT-WOUNDS.

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APPENDIX

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The Treatise of .

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To the Reader.

Aving thus finished the Discourse of Wounds, I considered with my self that my design was to help the Sea-Chirurgeons, who seldom trouble their Cabins with many Books. Itherefore shought it convenient to make this little Treatise as comprehensive for their use as I could, by making it contain all those things which may easily be foreseen to be of use to Now besides Wounds, we know by our experience that Burnings by Gun-powder and other materials do too frequently happen at Sea: and also by Ill dressing of Wounds Gangrenes and Fistulæ arise, and withal much the sooner, if broken Bones, especially those with Wounds, be not well brought together and so held: The ease and life of the Patient consisting in the well handling and ordering of them. All which matter we occasionally handled in the foregoing work, yes

yet not so much, but that for their fuller Infiruction I thought it requisite to anticipate something of other Discourses, I intend for the Press, by the following Appendix, which if well perused may perfect the Chirurgeon in what remains to be known concerning Wounds, and save him the labour of reading many Authors.

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APPENDIX

TO

The Treatife of

GUN-SHOT WOUNDS.

CHAP. I.

De Ambustis, or Burning.

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Orasmuch as it often happens, that in close fights at Sea men are sometimes burnt by Gun-powder by their Enemies, and by various accidents amongst themselves: I shall therefore deliver to you the most plain way of curing them. For however people cry 'tis nothing to cure a Burn, yet by what I have seen of these Cures from Country or City, they are often very

ill performed. Whether they are Burnt by Gunpowder, or any other way, their Cure is much
alike; they only differing, secundum magis & minus, only if they be burnt with Gun-powder, they
must pick out the powder first, else they will carry
the same blew mark in their faces, which some of our
people use to do in their hands and arms, which I
have often been employed to take out, when done
wantonly in their youth; but could never remove
this mark, otherwise than by taking off the skin.

If the Burn be superficial, it raises the Cuticula up in Blisters. If it go deeper into the skin, it causes an Eschar: If it burn deeper into the flesh, the force of the fire makes a hard crust with a contraction: In all these the pain is excessive. Once dressing a Gangrened Leg with warm Spirits of Terebinth. &c. Mr. Arris and Mr. Hollyer Chirurgeons, and others being close about me, and I upon my knees; the candle being too near the hot Spirits, catcht the flame, burnt my thumb and fingers, with that part of my hand before I could get free from those behind me to throw it into the chimny, weh was some distance off. I felt much more pain for the while in the superficial scalding, than where it was burnt to an Eschar. The pain is vehement, & makes great fluxion. The Indications of Cure are of two kinds, either by refrigerants and Emollients to bath or anoint the part, until the heat be off, and the Eschar removed, and then to deterge and cicatrize; or by hot medicaments to relax the skin and open, to resolve and dissipate; and so by accident allay the heat and burning. The Refrigerants are Aq. Solani, Plantag. Hyosciami, lac. Ebutyratum, and all the cooling Juices and Unguents; as Album. Nutritum, Populeon. Rosat. &c. Thefe

Cure of a Burn.

By Refrigerants. These must be used warm, until the heat and pain cease, or the fire be taken out, (as the common expression is) else they will rather cause pain: The other is by Rarefaction to allay the fiery heat and faction. pain, which in the first place is done, by the holding a burning-hot Iron or fire to the part; fo whilest the fire calls forth that fire it made, it becomes its Alexiterium. But the common remedy is to apply falt and an Onyon beaten together upon the Burn. But this is not to be done after the Bliiters be out; for fo you exasperate the pain and increase the inflammation. There are many other things do the like, Fimus Equinus doth the like fried in Ol. Nucum, uva immatura, Sambucus & Ebulus, in oleo Cott. Calx viva extinct. & cum Ung. Rosaceo mixta, ad consist. Ung. These are to be renewed often, until the pain and heat be off, which they in few days effect; if there be Cacochymia, it is another kind of work: If these applications do not prevent the arising of Pustula, you must cut them as they arise, lest by their Erosion they make hollow Ulcers, and inflame with sharp pains, Fever, &c. But where they are burnt to a crust or Eschar, you must hasten its fall with Emollients; deterge, then incarn and cicatrize.

Here is required bleeding and evacuation by Regiment lenients and spare diet, with all other regulation in Burns. proportionable, as the Burn is greater or lefs. could present you many cases of this, but shall give

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A Scholar of about ten years of age, at a School Observaa few miles off, the evening before the Fifth of No-tion. vember, having fill'd his right pocket full of Squibs and Crackers, would before he went to bed, throw

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one of them in the Embers, it took fire: Whether it scattered the fire, or some spark, or that it was the Cracker, but those in his pocket took fire also, and his cloaths were on fire; his little chamberfellow ran for help, a little boy from some other Apartment takes the alarum, first comes in, sees his School-fellow in fire, catches up a bason of water, throws it upon him, runs out, cries help, they come in and help him out of his burnt cloaths: A neighbour-Chirurgeon is fent for, who dreffes him, and the next day the burnt child is brought to Town, and lodged by me. I find him burnt into the flesh, from a hands-breadth below the Axilla, down the fide, and part of the belly, within two inches of the knee; in breadth from the belly, over the Os Ileon to the Gluteins, and scorcht about the edges; and by endeavouring to free his pockets of the Crackers, which was burning there, he burnt his hands from the fingers end, all the in-fide of his arm to his elbow joynt; where the parts were burnt to a crust, these I anointed with Mel cum Succo Capar. & Pul. Iridis mixt; and all the parts about I fomented with a decoction of Hyosciam. Malvar. Solan. Violar. & Sem. Cydon. & Pfillii, adding to it a third part of lac Ebutyratum; and then Embrocate the parts with Ung. Stramon. Then he should have been let bloud, but would not: Clysters were admitted, and pearl Juleps, his Fever was very great with the pains; as any Blisters arose we snipt them. As they became raw, I finding that Cerots or ought else of Pledgits were apt to shut in Matter, and bring off the skin with it ; dipt a fine Lawn in the decoction, and laid it over the parts, and with a feather dipt in Ung. de Stramon, mixt with Ol. Amygdul. anointed the Lawns, through

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through which the Matter passed, and the parts lightly burnt healed; The parts deeper burnt, as they threw off their Eschars, I digested, with the yolk of an Egg, a little Tereb. lot. in aq. Solani, adding a little Farina Hordei finely searsed cum. Ol. Amygdalar. with a little Sassron. Upon the sides I laid of this Ung. Stramonii, with a little Calx Lot. and on other parts Ung. Album, adding a new-laid Egg to it. Thus each part is to be considered, and especial care that Matter be no where pent in.

In these large Burnings there are variety of in- Several Intentions at the same time: Some require anodynes, dications Others detergents; digestion some, and others de in a large ficcants: Some the parts drest twice a-day, Others Burn. but once: Some I drest with this Ung. R.Ol. Sambuci thj. Cera Ziij. These I melt, then taking it off the fire, I add Lithurgar. Cerusse, Calcis lot. Thuris & Sarcocol. Upon some of these Lawns I laid Pledgits dip'd in a folution of Troch. Alb. Rhaz. made in a decost. of Equiset. Ros. Rubr. and Summit. Rubi to cicatrize the part: And as the part bears, I make it more drying. Thus I happily cicatrized this woung Gentleman, even and smooth, without the least unequal Cicatrix; nothing but the red colour to make it discernable; and that was gone off his hand when I fee him last: And I must tell you, in these great Ulcers it will require your care, that an Hyperfarcofis be kept from growing upon you. for fo your Cicatrizes will be deformed. I have had some persons of good quality come to me, so deformed with these, as they have suspected them to be wenny; and where they have hapned upon womens Breafts, they have suspected them Cancerous: These were much to the credit of the Femake-Chirurgery. In others from ill Chirurgery the

when one of them came into my hands, he required to be burnt again in order to his Cure; but I performed it easier. In the face there is a special care to be had, as also in the neck and breasts of the Fe-

Medicines for Eyes burned.

burned.

male fex. A great care must be had likewise of the Eyes, that they be dreft with no greafie medicines, and that the Lids be not drest with too drying, left they contract and make a Lippitudo; in the cure of the Eyes you have Pigeons bloud, Breast milk, Aq. Solani, Plantag. Rof. Pomor. Sem. Cydon. Fanug. Troch. Alb. Rhas. Tutia, Lap. Calam. Thus, Sarcocol, washt or nor washt. The Ears for want of care, I have feen adhering to the fcalp, and the fingers one to another; and in others close contracted, with hard Callus; one of which I cut: It was a Boy from Cheshire the Lady B. commended to me. I cut the cicatrix of each finger, and caused a roul to be placed under his crookt fingers, which carried with bars to the inward part of his wrift, which had by skrew there fastened gently, thrust forward the bar, till it had born all the fingers before it, and by a compleat extension restored them to their former liberty. The wrifts and other joynts are fubject to the fame inconveniences, which are preven-

ted by the knowing Artist, by the well ordering them, without which the best Medicaments signifie

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CHAP. II.

De Gangræna & Sphacelo.

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THE most cruel Symptomes that attend great wounds, and especially Gun-shot, with broken bones, are Gangrana & Sphacelus; Gangrene is the beginning of a Sphacelus; It is the disposition of fleshy, and Spermatick parts to a mortification: Sphacelus is a perfect Mortification, with the extinction of the native heat, and privation of Sense and motion of the part. They differ only as the Mortification is more or less.

The Signs of Gangrene, and Sphacelus are much signs. alike, the last more intense; it is of a deadly Livid Colour, Fetid, the lips Flaccid, without heat or sence of Knise or Fire; if there be yet sence in it, its there Gangrena; If no sence then Sphacelus.

That Brother was grosly ignorant, that told me aloud, there was no need of inlarging the wound, he could turn his singer in it, and pull out the rags, &c. As I came out I met Dr. W. who askt me how the Patient did; I replyed the Chirurgeon within hath given me unwittingly the certain sign of his death, which I had some two or three days before prognosticated, and advised his wound to be laid open for perspiration, and the taking out of Extraneous Bodies: The Chirurgeon tells me there is no need, he hath easily put his singers into the wound and pulled out some rags,

by which I conclude the Patient will dye in few hours: The Doctor replyed, yea, without doubt, and the Patient did die the next day. In magnis vulneribus & pravis si tumores non appareant, ingens malum. This was a great wound, and not being digested, it should have been accompanied with flux of humor, and Inflammation. The lips of the wound full, and rather with a narrow contracted Orifice, but the beat! was decayed, the tumor sunk, and the lips: flaccid.

Causes of

The causes of Gangreen are various in Gun-short Gangrene. wounds, it commonly happens from errour in the: first applications, and not making timely extraction of the Extraneous Bodies, and shivers of bones :: which prick the nervous and fleshy parts, by which great flux of humors falls into them, which debilitates and choaks their natural heat; Cold hard! winters, by intercepting the spirits, cause mortification; hard Bandage is a caused deficiency off heat in old age; And the Scorbute is often as cause.

Prognoflicks.

The Prognosticks of these are sad: The Sphacelus incurable; The Gangreen is curable, if the habiti of the body be good and timely fuccoured; otherwife it terminates in Sphacelus, and the Patient diess miferably; whenfoever you fee the Inflammation will not discuss nor suppurate, or that you perceive: the bottom of the wound doth not matter, but feels deeper, foft and more foul, you may suspect; butt if the matter be changed to worfe, you may affure: your felf the heat is decaying, and the outer Symptomes in the change of Colour and finking of the Tumor will follow. Therefore haft to prevent it, there being great danger in delay; If it changes colour.

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colour, and Blisters arise with certain Livid spots, and they but in the superficies of the skin, Scarifie them to the Quick, and let them bleed freely, by your Patient's sensible feeling them, and by the fresh trickling down of bloud, you may judge of the mortification: But if the Gangreen have crept deeper, or arise from the bottome of the wound, then Scarifie deeper into the fleshy parts to the Quick; and if there be any abscess deep under the muscles or lips of the wound, let it out; So shall you give a breathing to the parts: If in making your deep Scarifications, you chance to cut some Vessel, whereby a flux of bloud happens, have a care of Choaking the part with your Astringents 的中华 and Dossils; for so the Gangreen will be increased; In this Case, I propose the Actual cautery, which will not only secure you from a flux of bloud, but dry up the putrefaction: Then you are to apply fuch things, as may remove the Escar; as honey, powder of Ireos and juice of an Onyon: And afterward deterge, Incarn and Cicatrize as in other wounds. If in your Scarifications you wound a Nerve or Tendon, you add to the Gangreen; So you do if you burn but in part, or apply Tharp Medicaments upon them newly hurt; or it may be it was at first, as I said, some Nerve opprest by hard bodies, or prickt by shivers. Consider well, and if such lie in your way, (as in Nervous parts they may) you had better cut them off, or burn them through, than Scorch them: The hurting and burning of these is often a cause that the pain and fluxion is kept up. I see it daily in my practice in Sinewy parts, and while I was a writing of this, I cut off some of them to quiet the part, which otherwise upon every touch was grievously pained and inflamed; that so I might with more ease come: at the carious bone that lay under it: But if your meet with none of these accidents, then after Scarification, confider how far the Gangrene hath proeeeded, and accordingly cleanfe the wound, by washing out the clotted bloud, either with a Tincture: of Myrrha and Aloes; with extract Scordii or Theriac. Aristoloch. Gentian, or (if you will) add Calcantum; or that common Medicine of the Ancients, Salt in water, or a good Lixivium, or dissolving some Agyptiacum, and afterwards; it is in your choice whether you will dress it warm, with these or some Chymical oyles, as Terebinth. Carrophyl, &c. In a Gangrene coming in a Phlegmon! ellewhere mention'd, I Scarified the parts, andl washed out the Bloud, with a little ung Agyptiac. disolved in \(\beta\). of wine, and fill'd the Scarification round, between the Gangren'd lips and found parts. by Sir Alex. Frasier's, chief Phys. to the King, order with a precipitate; And applyed over fuch a like Cataplas. Refarine fabar. Lupinor.pisor.an.lib.cog.in Aceto optimo & melle, with the addition of Succ. Apii & Absinthii: The part where we sprinkled the precipitate separated with a perfect good matter, as much as was of it, and I have fince often used it with good fuccels. I have fometimes when the Gangrene hathi been coming on, washt and drest the Patient, with a little ol. Tereb. hot with an Arm'd Probe, and dipt a Dosfil, first in the same ovl, and then in precipitate, and put into the wound; And a Pledger of Basilicon dipt in the same oyl of Terebinth, hot over that; and in hast mixt the Crums of a wheaten Loaf, with good Brandy; and stirring it over the fire, with the yoalk of an Egg, and some Safron to the form of a Cataplasma, and applied it

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over the part afflicted, and roul'd it gently on: The first time I ever used it, was upon a consused wound, on a person of a full body, his pain was great, his wound gleeting, and the parts changed in their colour: Against the next morning I was better provided, but there was no need, his pain was mitigated, the colour of the lips was returned. and the wound dry: I suppose my precipitate with the oyl had made some little Escar, therefore let it alone to fall off of it felf, and applied a fresh pledget as before, over the Dossils, and after I had a while fomented the part affected, I laid over it the remainder of the former Cataplasma: The next dayes dreffing the Dossils came our with good digestion, and the wound afterward was Cured. But in these according to the increase, you must fir your Applications, farina, horder, fabar. orobi, Lupini, lentium, pisorum, sumit. Centauri, Min. Abfinth. Scordii, Cardui Benedicti: Ruta, rad. Ireos Aristoloch. Gentian, vincetox. Sal. com. Lixivium. oximel. Myrrha & Aloes fp. vini; These are the common remedies, of which Fomentations and Cataplasmes are to be made, to corroborate and refift putrefaction.

Then you have the common Agyptiac. which you may heighten by the addition of sal. com. Armoniac. nitri, Theriaca, Mithridati, Campkora, &c. and a good defensative above the part, of Bole Terra sigil. Sang. dracon. Acetum succ. solani, ol.

Rof. Myrr. Cera, Alb. ovor. &c.

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In these dressings you are to cut away the mortissed parts; and each time cleanse it of its putrefaction, otherwise it may be feared, it may be corrupted again under the Escar.

If after all these Endeavours, the Gangrene pene-

Actual Cautery.

trate more inwardly, you must then attempt it, by the actual Cautery according to Hypp. Illi affectus qui Medicamentis non sanantur serro sanantur, qui serro non sanantur Igne sanantur, qui Igne non Curantur hos existimare oportet insanabiles; Those diseases which will not cure with Medicaments, are cured by a Knife, and those which yield not to that, are cured by Fire, and those which will not by either, are counted incurable.

By the actual Cautery you shall resist all the degrees of putresaction, except a confirmed Sphacelus, it not only corrects putresaction, but corro-

berates the part.

But if after all our vigilancy and industry in contriving remedies to resist the Gangrene, it does yet: delude us, and terminate in Sphacelo, there is then no more need of taking Indication from antecedent: causes or changing of Medicines, according to the variety of the Causes that introduced it: whether a Gangrene arise from an hot Intemperies or cold, moist or dry; Sphacelus is alway the same extinction of the native heat and destruction of the Member: The mortification creepeth on, and not only incompasseth the Member, but infecteth the Spirit to the very heart with its corrupt vapours, mortifying the Vessels all along the found parts, leaving the Member immoveable without fense or heat, rotten, black and cadaverous; wherefore there is: nothing now to be thought of in this case, but Amputation or cutting off, quia curatio syderationis non confiftet in medio, the cure of this disease not: confifting, as I faid, in outward applications, but manual operation; and what fuccess may be therefrom expected is much to be doubted. At fatius erit, with Celsus, Anceps auxilium experiri quam nullum.

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nullum. It is a miserable kind of help, yet it is the determination of all Authors, that in Sphacelus, Membrum corruptum abscindendum est. case it becomes the Chirurgeon to acquaint the friends with this last woful kind of remedy, and withal to make his prognoftick accordingly, and then provide all things in readiness: But before we undertake this last Remedy, we must consider how to proceed in the operation; In those places where Amputation cannot be made, as in the Buttock, Shoulder, Back, &c. Fab. Hild. proposeth the use of potential Cauteries applyed to the mortified part, and often renewed, till the last Escar reached to the live flesh; yet he condemneth Arsnick as being venemous, and producing many dangerous Symptomes: It is true, that I my felf have often used that method of Cure in Sarcomata with good fuccess, but in a mortification there appears to me many greater Inconveniences that attend it; first from the caustick it self, as he proposeth it of Salts, it will melt in the working, and is more difposed to spread in the skin than penetrate deep into the flesh: This every young Chirurgeon knows in his making of Fontinels, that he cannot apply a bit so little with all his Art in defending it, but that it will have spread much farther than he defigned it; then the separation of such Escars is too flow to effect your purpose, and in an ill habit of body, fuch medicaments are apt of themselves to procure a mortification rather than Cure: Whereas on the contrary, an actual Cautery answers all Intentions; it not only confumeth the mortification, but dryeth up the venemous humour, thereby preventing its farther progress, and also communicateth warmth to the languishing parts; by veatue

vertue of which the separation is much farthered, and by working upon the Gangren'd floughs performed more easie, as I shall shew you in my practice elsewhere. But where Amputation it self is feisable, nay altogether necessary, as in the Limbs, there ariseth a new question; Whether it ought to be done in the found part or in the dead: Fabr. ab Ag. Pend. adviseth the dead part within a fingers breadth of the live, (as also do many others) then with a Cautery burns up all the remaining mortification. Others do perform the Operation with a hot Knife, the figure of which you may fee in Hildanus. Aq. Pend. speaks so confidently of his success in the practice of this way, that utterly to deny the thing were to give him the lie. I shall only make this objection, that the Sphacelus doth seldom affect the Member so equally round, as that an operation in the dead part is feifable; nay which is worse when once the mortification seizeth on the great Vessels, it runneth up so fast under the skin, that before any confiderable part of the Member is outwardly Gangren'd, on the one fide beyond the Knee or Elbow; The other fide will have reached to the Ingues or Axilla. This I confess frustrates all manner of Amputating, whether in the found or mortified part : yet generally speaking the Gangrene doth not grow so fast, but that if you make Amputation two fingers breadth more or less, within the live flesh, you may prevent it, and that far better than it is possible to be done by the other way of operating; for if you work there by actual Cautery with an hot Knife, your Knife will stick fast in the slesh till the moisture be wholly dryed up, and then you must repeat many Knives and Cauteries, in every one of which you will meet with

with the same inconvenience; Yea before you can cut through with your hot Knife, it is very probable that you will near the Bone meet with some parts that are alive and sensible, especially when you come to the Periostium; for the Bone doth not usually corrupt at the same rate of swiftness with the other slesh, and then all your pains and trouble will be as great or greater than if you did it in the sound part. As to other Inconveniences, I shall refer you to Hildanus, who hath taken pains in consuting this opinion.

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The greatest motives to the Ancients for the use of this and that other way of Amputating in the Joynts, I presume was the easiness of preventing fluxes of bloud this way, which they found more difficult than the other.

But modern Chirurgeons have answered this objection by good Bandages and deligation of the Vessels, and when we cut above the Knee by clapping Cauteries to the Vessels only, which sufficiently answers that Intention: Thus have I seen in my first Sea voyages, Amputations made above Knee, and afterwards practised them with great ease and safety:

Now fince not only in this Chapter of Gangrene, but frequently in this Book, we have mentioned Amputation, I think it necessary to take this occasion of shewing the manner of performing it, the rather because the operation is much the same, whether it be done upon the account of Gangrene, or for other reasons. I shall therefore in general terms insert the whole doctrine of Amputation though briefly, not mattering whether the examples instanced be Sphacell or not; all instances

be confidered in heat of Fight.

instances being alike instructive, viz. If in heat of fight at Sea, a Leg or Arm be shattered by Splinter What is to or Great Shot, you are to confider the loss of Substance, whether the principal Muscles and Vessels are torn off; or if the wound was inflicted by Musket-shot in the bending of the Arm, in the inside of the Elbow, or in any of the Joints of the Leg or Arm; if you cannot extract it, or if the Bullet did pass through, yet if the fracture be great, or the shivers of Bones so lodg'd within the Joint, as you cannot pull them out, and if the Artery be wounded by the same shot, and that you cannot come to drefs or stop it otherwise than by crowding dossils into the wound; you shall then prefently make extirpation of them, cutting the Arm in the place where it is so shattered, and saw off the end of the Bone even; your affiffant the while pulling up the musculous skin and flesh. If it were the Anklethus maimed, you shall then cut off the Leg within three or four fingers breadth under the Knee, for that so long a stump would be troublesome: But if it were shattered in the calf of the Leg, do not put your Patient to the pain of Amputation, for the gaining a hands breadth or higher: If the Toes with part of the foot was shot off, cut off the lacerated parts smooth, but with care to fave as much of the foot with the heel as you can; it being much better than a wooden Leg: But if the Arm or Leg be not so shattered, though the wound be large on one fide, and hang gaping down with great fracture of Bones, yet be not discourag'd, the largeness of the wound will make for your better pulling out those extraneous bodies, shivers, splinters, rags, or ought elfe; and for the eafier difcharge of matter drefs it as a wound by a fplinter. If

If the great Joynt be so shot by Musquet-bullet, that you think it not reasonable to cut off the member, be sure you make extraction of the Bullet, and free it of all extraneous bodies; leaving not the least shiver to prick the Nerves or Tendons, and make such way presently, that you may be able to dress the wounded Nerves, Tendons, &c. without after-openings, when the part is inflamed and unfit for it.

If after some days the wound do not digest but inslame and Gangrene, and the Gangrene do not yield to your Applications, as hath been proposed in Gangrene, then as in Sphacelus you are to proceed with the extirpation of that rotten member, while the Patient is free from Delirium, and hath strength to bear the operation.

Seat him fo as it may be for your conveniency. At Sea they fit or lye; I never took much notice, nor do I remember I had ever any body to hold them; with the help of my Mates, and some one or two that belonged to the Hold, I went on with my work. At Sterling I made an Amputation above the knee, and had as little help; besides my fervants, there was only a Sea-Chirurgeon affifting me, we stopt the flux of bloud by actual Cautery, the wound digested and cured without any ill accident; but where we have convenience to proceed more formally, there we place the Patient in a Chair, where he may be held firm, and in a clear light, and your affistance come better about you; the member is to be supported by some one of the fervants, then one of your affiftants should draw

up the skin and musculous flesh above the part you propose to extirpate, then make a Ligature two fingers-breadth or there-about in the found part; so as if you Amputate in case of Gangrene, you may be sure to quit your self of the mortification. This Ligature is omitted by many of our Chirurgeons here in the City, they only making a turn with a Tape, pinning it on as a mark to circumcife by; and instead of the Ligature I propose they make a Gripe, which Gripe is commonly made by some Assistant who is strong in Griping: Indeed this is good where a shattered member is to be cut off to smooth the stump, where there is no great fear of bleeding; but in Amputation it seems to me to be very inconvenient, for I never see any man fo gripe, but that the Artery bled with a greater force than was allowable; yea when Mr. Wodall grip'd, who was so applauded, and in truth made for the work; it being so, in what a huddle is the stump then drest: But suppose the uneasie posture, and the long griping tires him, or that his hand be crampt the while, what is then the condition of the Patient? Whereas by this ancient way of Ligature which I propose, the Vessels are secured from bleeding, the member benum'd, and the flesh held steady, ready to receive the impression of your crooked Knife, (or Razor which I have often Ampurated with) the Amputation made, the drawn-up skin and musculous flesh falls down to cover the stump, and the Chirurgeon hath time to take up the Artery or cauterize the mouths of the Vessels, and afterward to bring the lips over the stump by a cross stitch. This Ligature made, the Assistant strengthens it, whilest he draws up the musculous flesh; the mean time the Operator with a sharp crooked

crooked Knife by a turn cuts round to the bone, then with the back of his knife he scrapes the Periostium from the bone; if there be two bones, he with the Divider separates the fleshy membrane there, while the Assistant pulls up the divided parts more powerfully; during which the Operator with a few motions saws off the bones or bone: If there remain any Asperity on the end-of the bone, it must be smoothed. There is to be a boul with Bran or fifted Ashes to be under the member, while this work is doing, to receive the bloud: When you make this circumcifion, begin in the upper part on the out-fide of the Leg or Arm, cut down close to the bone, bringing your Knife round to the infide, where the great Vessels are; so shall you have the less effusion of bloud: That done, and the bones freed of the Periostium, Guido proposes a linning, and Hildanus a kind of a purse to be brought over the upper-divided flesh, to pull it upward, to make more way for the Saw; but I think that needless. The flesh divided, the parts separate enough of themselves, besides the Assistants pulling up the musculous flesh and skin is sufficient, the bone is to be sawed off close by the flesh above: that done, you are at liberty, whether you will cauterize the Vessels by a Button-Cautery, or by Ligature stop the bleeding, or by agglutination. The use of Calcanthum I do not approve, to apply Escaroticks to the ends of the Nerves and Tendons, new incifed, causes great pain, weakens the part, and makes way for Gangrene: It not being likely you can so apply them to the Artery, but that you must burn the parts about, which are, as I said, the Nerves, &c. The way Hildanus propofes by drawing the Vessels out by a pair of Forceps,

is not a work to be done in heat of fight, nor without a clear day-light; if you attempt it on Land his Arm would be bowed, and his Leg stretcht out, that the Vessels may be elonged after extirpation, that you may the better take hold of them. Ambr. Par, proposes a more easie and sure way of deligation, that is, by passing the Needle with a good strong Thread through the skin, about half an inch above from the lips, your Needle to come out just by the side of the great Vessels, then pass your Needle from the other side over the Vessels within, through the Raw-flesh out through the skin; there putting a fold of a rag or of Emplaster spread, and tye the two ends of the thread over this straight; thus you bind the Artery and Vein with inconsiderable pain: But at Sea, I suppose, your actual Cauteries are always at such times in readiness by you: Therefore in such cases use them, they will secure your Patient from the present danger, and fortifie the part against future putrifaction, they requiring no fuch strict Bandage, as that thereby you shall fear interception of Spirits; when we Cauterize the Artery, we do then touch the end of the bone, it hastening the Exfoliation: The next thing is the loofening the Ligature, and bringing the lips close over the stump, then whether you should with a cross stitch hold them so, or content your felf by Bandage as well as you can, is by some controverted; they that object against it say, it causes pain and inflamation, so doth Bandage, if it be made too straight; Therefore they should object against that also. The most that I have seen without cross stitch have the next dressing been broad stumps, some of them with lips turned outward by the Bandage: In the least of them the whole ftump

frump hath been bare, whereas those where I have brought the lips over the stump, have been the next dressing close, covering the great Vessels, and a third or half part of the stump hath been well digested, and by the second dressing hath been near agglutinated, so far as it lay under that skin, without inflammation happily cured: Whereas the broad stump is a certain sign of a long Cure, and commonly death. The exposing those incised parts too much to the Air, causes pain, and the want of native heat makes them gleet; or if they do digest, the discharge of so great a quantity of Matter commonly exhausts the Spirits of the Patient.

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If the musculous flesh and skin was well pull'd up in time of Amputation, and brought over by a moderate extension, as far as they will easily admit, you will find it not painful; you are to pass the Needle with a strong brown-thread seared, you are to pass it about half an inch from the edges of the lips, having made them cross from side to side equally, tye them with a moderate aftriction, then apply a Pledgit on the Cauterized Vessels with Pul. Irid. Suc. Cepar. & Mel. But if no Cautery was used, then Buttons of Tow spread with your Restrictive, and dipt in Pulv. Galeni are to be applied to the mouthes of the Vessels; afterward sprinkle the stump thick with this powder, R. Bol. Armen. Farin. Volatil. Picis, Naval. an. Ziiij. Aloe, Thuris, Mastich, Sang. Dracon. an. 3j. Gypsi. Zis. Pil. Lepor. Corii raspat. an. Zij. Pul. Subt. m. Mix some of the same cum Albumine ovor. and apply it upon a round thick Stupa, which hath first been wet in Oxycrate, and dried; over that another Stupa spread with the same so broad as to come

come over the first, & up a pretty height above the stump this is to be snipt deep in the edges, that it may lye smooth about the member; an Oxe-bladder ready cut & wet is to be turn'd over this, & a cross cloth next the bladder to hold the dreffings steady; then with aRouler with two heads, begin upon the stump, & roul up to the next joynt, and so again about the member to retain your dressings firm; then fasten it, so as that it may not be capable of falling off. But before you make this Bandage, you ought to apply your defensative over the parts above the stump: Some apply it before they begin the Amputation, but then it is found full of wrinkles, and fits uneasie. In the dressing of these stumps, you are to apply your medicaments, as you may without much bungle roul up the member, and place it to the ease of the Patient, one holding his hand somewhile upon the stump: Your defensative may be of the same which is proposed in Gun-shot-wounds, or this; R. Far. Hord. Bol. Armen. an. Ziij. Sang. Dracon. 3jss. Flor. Rof. Rubr. Balaust. Nuc. Cupressi, Pul. an. Zvj. Acet. 3x. Album. Ovor n. viij. Ol. Ros. & Myrtil. an. 3j. Cera 9s. Boil the powders in the Acer, then add the rest to it, to make it of the confistence of a Cerot. The third day take off the dreffings, and then you may cut the cross stitches, and sprinkle the wound with Pul. Galeni, and dress with this Digestive; R. Terebinth. Lot. in decost. Hordei Ziij. Ol. Lumbric. Zj. Gum Elemi dissolut. in pradict. Oleo 31s. Far. Hordei Cribrat. Bij. Vitel. unius Ovi, Croci Pal. 9j. m. Apply to the bone a Pledgit of Lint wet in Spir. Vin. and dried; after the wound is digested, you are to deterge with Mundificat. Paracels. or Apii, or this, R. Terebinth. Venet. Lot. in Spir. Vin. Ziij. Pul. Rad.

Rad. Iridis, Aristoloch. Rot. Sarcocoll. Thuris, an. 3j. Mel. Ros. 3j. Then incarn and cicatrize, as hath been said in Compound Wounds.

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Whilest I was a prisoner at Chester, after the Battel of Worcester, I was carried by Coll. Duckenfield's order to a substantial man, that out of too much zeal to the cause pursuing our scattered forces, Observawas shot through the joynt of the Elbow, from the conselower and outer-part of the Os Humeri, out be-quences of low, between the Ulna and Radius; he had la-wounds in boured fix weeks under great pain, the wound was the Joynts. crude, the lips turgid, with lax white flesh, the Bones not likely to unite, many shivers lying within the wound and joynt, without hopes of getting our, the bones within carious, and the member cedematous from the wound down-wards to the fingers-ends, full as it could hold; and the more, for that the Patient could not suffer his Elbow to be bowed as to bring his hand to his breast, the upper part of the wound from above the joynt to the Axilla above the shoulder inflamed, a perfect Phlegmon formed. The Patient thus tired with pain defired to be cured, or have his Arm cut off: To which purpose he had procured the Governors leave for my staying with him. But while that Phlegmon was upon the upper parts, there was no hopes of a prosperous Amputation, nor of cure while those shivers of bones lay pricking the Nervous parts within the joynt : The Phlegmon was too forward for repercussion, and yet not likely to suppurate in less than a weeks time; therefore I endeavoured by Emollients and somewhat discutients, to succour the grieved shoulder and parts thereabout, by hindring the increase of the Phleg-

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mon, and give some perspiration to the part, then with good fomentations to corroborate the weak and adematous member below, and by detergents, fomentation, and bandage to dispose the wound and fractured part to a better condition, and made way for discharge of Matter, and the shivers of bones, also to remove the Caries; to which end I had! brought his hand nearer his breast: A few days after I opened the Abscess above, and below under: the Axilla; A while after, the Matter discharged! from above, the tumor flatted and agglutinated within, and the Ulcer cured: But the continual pains stirr'd up in the fractured joynt, kept thatt opening in the Axilla from healing: The Patientt growing weaker, and without hopes of cure, I wass necessitated to proceed to the Amputation: To which purpose I sent to Chester for Mr. Morrey an knowing Chirurgeon, (fince Mayor of that City) to come with Instruments and other necessariess whereby I might the better do the work. Mr. M! came, we prepared dreffings ready, which were Stupa or Pledgits of fine short Tow well workt. fome like the Splenia, others round bigger or less these wet in Oxycrate and dried; also some buttons of Tow, then compresses of Linnen-cloath dipt in Oxycrate, three or four Roulers with once or two heads, Needles threaded and feared for making the cross stitch, and lesser Needles thread ed for common use, with Filletting for Ligature: and Bladders ready cut and wet in Oxycrate. A defensative of the above-mentioned prescription. spread upon a soft Linnen-cloth, to apply upon thee parts above more diltant, and a mixture of thee Astringent powders with whites of Eggs to spread upon the Splenia and buttons, which buttons were alfoo

Amputa-

also dipt in some of the same powder: Then for the round Pledgits which were designed to be applied next to the stump; Mr. M. proposed that they might be spread with a mixture of Umber and Calx viva, with whites of Eggs, according to Dr. Read in his observation upon an Amputation he performed upon a servant of the Lord Gerrards at Gerrards-Bromley, whose same yet lives in that Country, and amongst us Chirurgeons, while his painful Lectures have a being.

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The Apparatus thus made, and the Patient some while before refresht with a draught of a good Caudle, his friends take him out of his bed, and place him in a Chair towards the light, one of his fervants held his Arm, another of his friends his other hand, then Mr. Morrey drew up the skin and musculous flesh of the Arm towards his shoulder, whileft I made a strong Bandage some three or four fingers breadth above the affected part: Then with a good Knife I cut off the flesh by a quick turn of my hand, Mr. Morrey pulling up the flesh, whilest I bared the bone; then with a few motions of my Saw, I separated the bone, the Patient not whimpering the while. After this Mr. Morrey thrusting his hands down-wards, with the musculous flesh and skin which he had drawn upwards, I with a strong Needle and Thread passed through the middle of the fleshy skin on both sides, within half an inch of the edges, and brought the skin close within a narrow compass, and having tied that fast, and cut off the string, I passed the Needle again through the two contrary fides, and this I tied as close; this is called the Cross-stitch, and is of so great use, as without the performance of this, the Patient H 2

Patient is long in Curing; and sometimes through the great discharge of Matter the Spirits are wasted, Spasmaes and the like follow: Or if he do recover, 'tis a long work and much pains; whereas by this cross stitch the stump is covered to the breadth of a five shillings or half-crown piece, the flux of bloud in a good measure choakt, the heat of the part kept up, and the wound foon cured, and the Patient grows fat and strong: The while, having made this cross stitch, I untied the Ligature, and applied little round Stupes of Tow, which had been first dipt in Oxycrate, then dried, and spread with a Restrictive, wherein was a quantity of Galens powder, mixt with Alb. Ovi. From these round ones I laid long Pledgits, spread with the powder of Umber, &c. mentioned by Dr. Reade in his Lectures; this and the long Pledgits were Mr. Ms. proposal, and fat very close from the middle of the stump each way upwards along the Arm; then I put on a Bladder, a cross-cloath, and rouled up the stump, and made a Bandage from under his other Arm, and over his Neck to this Bandage, (which prevented an accident which hath fince happened to a Patient here in London, where many of the best Chirurgeons were concerned.) Then I put him into his bed, and three days after opening him, the wound was well digested, but the binding occasioned a new eruption of the Ulcer, which formerly came from the Phlegmon in the Axilla: Our stitches brought the skin so close to the stump, as here was no place for buttons with Elcaroticks, which are so constantly used in these Operations, which lying commonly upon the new incifed flesh, Nerves, and Tendons, do much disturb the quiet of the part. The

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The second dressing was made by a digestive of a little Terebinth, washt in decost. Malvar, with the yolk of an Egg, and Ol. Rosar, and with a large Stupe of Tow, with some of the same digestive, and a proportion of Galens powder upon it, and having Embrocated the parts with Ol. Rosar, and a little Acet. I applied my Empl. de Bol. over all, and rouled up as formerly, but very easie; and afterwards mundified with that of Paracels. and with Sarcoticks and Epuloticks incarned and cicatrized, and the bone Exsoliated: Then having procured a pass to come to London, I hastened away, leaving his stump cured.

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At the Siege of Weymouth I was called at break of day to an Irish-man of Lieutenant Coll. Ballard's Regiment, who in shooting off his musquet, brake and tore his hand to pieces after a strange manner: I purposed to cut off his hand; I sent presently to Observat. my quarters to one of my Servants to bring a Saw, and Knife, and dreflings, of which at those times we had always store, which being brought, I took a red ribbon from off my Case of Lancets, and bound about his Arm some four fingers above the Carpus, and cutting the flesh, bared the bones of their membrane; I divided the flesh between the bones, and fetting the Saw close to the flesh above, I fawed it off, and untied my Ligature above, and bringing down the musculous flesh and skin over the end of the bone, not making any cross-stitch, here drest up that stump with my Restrictives, and rouled him up, and returned again to my quarters: I had not been one hour gone, but I was fent for again to this Irish-souldier, he being as the messenger H 3

messenger said grievously full of pain; I wondered at it, and haltened away, before I came to his hut, I heard him crying, I asked him what he ailed to roar fo, it was a while before he would answer me. at last he told me he was not able to indure that red Ribbon that I tied his Arm with; I was at first herein surprized, to think I should leave the Ligature upon his Arm, that being a fure way to bring a mortification upon the part: I put my hand in my pocket, and shewed him the red Ribbon on the Cafe of Lancets, he seemed at first to doubt it, but after he fee it was fo, he laught; and was from that time in eafe: Two days after our men were furprized, and chased out of the Town and Chappel-fort: I was at the same time, it being about twelve a clock, dreffing the wounded in a house for that purpose in the Town, almost under the Chappel and Fort, I heard a woman cry, fly, fly, the Fort is taken: I turned aside a little amazed, towards the Line, not knowing what had been done; when I got upon the Line, I fee our people running away, and those of the Fort shooting at them, I flipt down this Work into the ditch, and got out of the Trench; and as I began to run, I heard one call Chirurgeon, I turned back, and feeing a man hold up his stump and his hand, I thought it was the Irish-man, whom I had so lately dismembred. I returned, and helpt him up, and we ran together, it was within half mulquet-shot of the enemies Fort, he out-ran me quite. FORT CONTRACTOR NOTICE

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CHAP. III.

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Of Fistulæ.

Fistula according to the Vulgar denomination is every finuous Ulcer, if it have been but of two months continuance; but strictly faying those only are Fistula which are narrow, sinuous, and have contracted a hard Callus, they are usually some years in making: The worst fort of these, at least that ever I see, was from Gun-shot-wounds with fracture; especially where there hath been loss of bones, or through long continuance the Caries hath chambered the bone, the lips of the wound and wound become Callus by keeping long open in order to Exfoliation, and sometimes through former finuofities which have prolonged the cure, there the lips grow hard, and do become inverted thick, and are more or fewer in number as the Abscess or wound was more or less sinuous: This Callus of the Fistula is hastened by the perspiration and resolution of the thin and subtil humors, and Incrassation of the more pituitous, by the congestion of which a long pipe of skin is made, which brancheth itself inwards from the orifice quite through all the Cavities of the Ulcers, from whence it hath its name. The

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Difference. The differences of these Fistula are made not only from the parts affected, as some in sleshy, others in Tendonous, or in the bones, or joynts, or the breast, belly, &c. But also from the sigure, magnitude and number of the Sinus, as sometimes only one, then again two or three crooked or winding, till they enter the bones themselves.

Signs.

They are known by the Veiw, and by the touching of the parts, or by fearching with a Probe, and from the discharge of a thin serous Fœtid Matter, and have an Arched hollowness: If by your searching the parts are pained, or a drop of bloud follows your Probe, the Fistula is not confirmed, but if neither succeed, the Fistula is confirmed.

Progno-

All Fistulaes are hard to cure, and those of long continuance with great discharge of depraved humors in sinuous parts amongst the bones and joynts are worst, because their Sinus are narrow, and have contracted a hard Callus, and without that be removed they can admit of no cure.

The way of Cure is performed by manual operation or by Medicaments; But before you proceed in either, you are to consider that these Fistula's are subject to pain and defluxion; wherefore you are in the first place to proceed by evacuating of those humors which may disturb you in your work, and that is done by purging and bleeding, good Traumatic decoction and observation of dyet, as is said in universal regiment.

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To proceed to the Cure by manual operation, Cure, you are to confider the part affected, whether the Callus be only in the lips, or in some part of the Fiftula, or that the Callus be throughout the whole length of the Sinus, and this is discovered as I have aforesaid by the Probe, &c.

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If there be neither pain nor matter, the Fistula tending only down directly to the bone, then do you let it alone accounting it an imperfect cicatrix, and if undisturbed will in time grow more close; But if it be the former, then you must remove the Callus if you propose to cure it.

If the Sinus may conveniently be laid open, divide it with Knife or Sciffers the whole length; if after the laying it open, the Sinus be not Callus. or not a confirmed Fistula, then deterge the Ulcer and Incarn and cicatrize it: But if the orifice of the Fistula be streight and narrow, that you cannot lay it open, you must then dilate it with Tents of Spunge, ventian, Aristolochia, Elder-pith, &c. untill the Sinus be large enough for your purpole; and to further this work it may be proper, that you outwardly apply fuch Medicaments, as may by their Emollient and digestive quality resolve and dissipare the matter, impacted in the parts about, and these are Rad. Althee. lilior. Enulæ campan. Sigill. Solomonis, cucumeris agreft. sem lini, fenugrac. Medulla ossium, Axung. Percina, Axungia Humana, Anseris, Gallina, dialtha. Gum. Galban. Amoniac.&c. Of these you may make fomentations, Cataplasma's or Cerots: You have also to this purpose Empl. de ranis cum aut sine Mercurio, Empl. de Musilag. diacal.

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cum Gum. The Fistula thus disposed for laying open, you are to confider whether you may not remove the Callus by Catheretics: to which purpose Celsus proposes, lachrama papaver, cadmia, attramentum, sutoneam, Erugo, sandarach Alum, we commonly use our Lap. Caustic. Vigo's Troch. de minio Arlenicum ol. calcanth. or thus. R. Cera resina an. 3j. sublimati ij. mix this upon the fire, and dip a Spunge in it, but not to hot, lest you burn your Spunge; then press it out, and cut it into what length and thickness may serve your purpole; Guido commends Aq. fortis as the most Excellent for destroying the Callus of all these Fistula's: But if you had rather have an Injection, you may make this or fuch like, Re ung. Agyptiac. 3/s. sublimat. 3ss. Arsenic. Dj. Lixiv. 31. Aq. ros. 3ij. aq. plantaginis Zilij. boyl this ad tertia partis consumptionem, casting a little of this in with a Syringe three days together, shutting the orifice up with Cere or some Emplaster; so shall you confume all the Callus: But you must consider the parts underneath that Fistula, that by its too far penetrating it hurt not the bone, or parts underneath. If these answer not your Expectation, then having dilated the Sinus, lay it open by Knife or Actual Cautery; after the application of these stronger Medicaments, or Actual Cauteries, you must by Lenients mittigate the pain, and defend the part from defluxion which will follow such appliplications, and these are by decoctions to Syringe. as fol. Malva, bismalva, violar. verbasci, Hyosciami sem. Cydonior. hordei, or ol. vittel. Byturum. Axunoia, ung. Basilic.cum ol. lileor. dealtha, &c. and over the parts refrigerants; as Empl. è Bolo Oxelium, Diapalma cum succis, or some of the defensatives

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tives mentioned in this Treatife: When Inflamation is off, deterge with this, Re Terebinth, in aq. vitalot. Ziij. succ. Apii Cinaglossi an. Zvj. Mel. Ros. Colat. Zijs. decoq. ad succ. consumptionem, dein adde Aristoloch. rot. pul. Zij. farin. lupinor. Zs. you may add to it pulv. Ireos, myrrha, sarcocoll. Thuris, and thereby Incarn, and afterwards cicatrize: If the Bone be caries, you are to consider how far the caries hath entred into it, and proceed in the removal of it, either by Actual Cautery or Rugines scraping the rottenness off, then by cattagmatics hasten Exsoliation, and proceed in the rest with Sarcoticks and Epuloticks.

But if these Fistula's be near, or over some noble part, or that there be Nerve, Tendon, Artery, or in such bones where it reaches to the Medulla, or Joints where you may not safely proceed by Actual Cautery, or potential, and that it will not yield to milder Medicaments; you shall do better to palliate by some Emplasters and Unguents, as may dispose the part to quiet, purging the Patient sometimes, and observing the Universal Regiment in dyet, &c.

And old Officer of our Army labouring long un-AFistula der an Ulcer on the outside his Thigh, by the vastus in the externus from an old Gun-shot-wound, implored my help; the Ulcer appeared with a small contracted orifice, scarce admitting my least Probe, it ran towards the Bone about an Inch deep, then running downwards with a Sinus more lax, discharging a thin Sanies it was outwardly accompanied with a pituitous Tumor, but nearer about the Ulcer was hard, and of a darkish red colour, not unlike an Imperfect

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fect Schirrus: In order to his cure, I proposed to him temperance and quiet, purging and bleeding to carry off the Plethora; to the part affected I proposed discutients and resolvents, Fomentations, Embrocations and Emplasters, as is above aid in the general Chapter, with Bandage to refift the Influx of humour: That done I applied a Caustic upon the orifice of the Fistula, and after separation of the Eschar, I dilate the Sinus by Tents made of Gentian, dipt in ung. Dealtha. This Sinus inlarged. I make way to the other by the same means, and having dilated that Sinus, I cut it open the whole length, and fill that with doffils spread with Basilicon and Turbith mineral filling the faid Sinus, by which I proposed the Eradicating the Callus; To the recent parts cut I applyed dossils with my digestive, and over all a Cerot composed of ung. pupuleon & cera, and with a compress dipt in Oxycrate make myBandage over all: The next day I take off my Bandage and Emplaster, Embrocate the part with ung. Pupuleon, and apply my Cerot and Bandage over all again. This I did to allay the heat of the part, and prevent Influx of humor, not medling with the Escarotick till it came off of it self with the flough; then where I found any part of the Callus remaining, I rub'd it off with my Lapis Caustic. The Callus thus removed, I deterged with the Mundificative above proposed, and hastily Incarned, lest parts should again contract a Cicatrize, as they are apt quickly to do, whereby my former Endeavours would have been rendred vain.

A Fistula An old Officer had long laboured under a Fistuwith Caries la, from Gun-shot in the upper part of the os Tiin the Os bia, near the Knee upon the Shin bone, where that Isbia. Bone Bone had been grievously Fractured, and from thence had been long Carous; he was my Patient in France, but here I finisht what I there attempted and had not time to do. I here after general Evacuation applyed a Caustick the whole length of the Sinus, whereby I took off that Callus, and gave way to the discharge of that Fætid Ichor made in the Bone, and took out several pieces of the rotten bone which was shut in there: This done, I Rugin'd away that rottenness, and drest the Bone with my Cattagmatick powders, &c. By which means after some time a Callus thrust forth, and United with the Musculous stell, and after which by Sarcoticks Incarned, and was afterward cicatrized by Epiloticks, as is said in Ulcers of the Legs.

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It often hapneth, that in the time of Exfoliation of Caries in the bones, where there hath been loss of bones, as in Gun-shot-wounds is too often seen, there while we are attending Exfoliation, the lips grow Callus, so as the Cicatrix is deep, and the lips at some distance.

In this case heretofore I have taken much pains to better the Cicatrize, but since by often experience have found, that in time the Lips slat, and the Callus rises up to them of it self, and the Cicatrize becomes firm and seemly.

CHAP.

CHAP. IV.

Of Fractures in General.

Bone is a Similar part of the Body, and I the hardest, and dryest of all, the General use of which is Stabilimentum ac fundamentum reliquis omnibus partibus largiri, to be a firm prop and foundation upon the strength whereof all the rest of the parts are built: The whole Skeliton confrdered joyntly may be looked upon, as performing that office to the little world, that Atlas hath been fabulously reported to do to the great one; it bears the whole bulk of it, and sustains it in all its motions, none of which could be performed, if either the bones were not, or not so articulated and joynted, as upon defection they appear to be, Nam si ossa abessent non flecteremus manus non netvos & fibras; nay if the least bone be but a little maimed, the use of the part is hindred, but they are not only fulcimenta, as Galen sayes de usu partium, sed etiam defensio but also a defence. The Cranium veluti Galea, as a helmet defends the Brain from external Injuries; So Pellus offibus clauditur, the Heart, Lungs, and great vessel of the Thorax are guarded by a wall of Ribs; the Spina is a bulwark to the Marrow included in it, and such a de-

fence

fence is the os pubis and the os coxa & Ilion to the Womb and bladder; others otherwise serve the uses of Nature, as the three little Bones in meats . Auditorio by firming the Timpanum, are a great help to the hearing; the os hyodes affifteth the swallowing, by managing the root of the Tongue and the Epiglottis. The Rotula serves the motions of the Knee, and the Teeth prepare the meat by Mastication, not a Bone but hath its particular end fet out: There was a reason of the Temper, of the Magnitude, of the number, of the Substance, of the Scituation, of the Connection of them, the wife Creator as much shunning Superfluity as deficiency. Indeed the whole Fabrick is so full of Excellency that it would take up much time to express them; But that is not my business: The subject I have undertaken to treat of is their misfortune, and that is twofold, to be Fractured and Dislocated; that of Fractures I have proposed for my present Discourse, and that only in General, it being sufficient for my design.

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To proceed Methodically, I shall begin with their definition, which according to Galen, de methode medendi, Is unitionis sine continuitatis solutio quacunque in osse, but this being too general, and taking in all cariosity and Ulcers of the Bones, which hardly belong to this head of Chirurgery: The moderns have more closely defined it to be Ossis divisio sen rupturia à causa violenter irruente: But this likewise seems to me to be lyable to many exceptions, I shall name only this, viz. That a cut made into a Bone by a sword or a sharp Instrument, seems to be rather a wound than a Fracture: And for this Reason Guido de Cautiaco makes it to be continuitatis solutio in osse non à re qualibet fasta, sed ab ea qua contundit;

The Au-

nition of

contundit; yet I must still beg pardon if I be not yet satisfied with this description, because it leaves out all such Fractures as are made by any accidental bowing of a Bone, either in a wrench, or any other case where without any blow or contusion of parts. the bone snaps in funder, and then wounds the neighbouring Muscles, even to the thrusting of it self very often quite through the skin: These are (cases of Battail excepted) the most frequent of all Fractures, yet not without some violence to be reduced to any of these later definitions. I shall therefore chuse to define a Fracture in the following words, It is a thors defi- Solution of continuity in a Bone Suddainly made, jeither by contusion or flexure: By contusion, I mean Fractures, either a Blow by a blunt Instrument, or a pressure by a great weight, either of which usually bruiseth the flesh about the Bone, as well as the Bone it self: In contrafissures indeed the bruise is not immediately upon the Fracture, but in the places where the blow is given: In Flexure there is seldom any bruise but what is made by the edges of the Bone it felf, after it is snapped in sunder; all other Fractures are reducible to thefe.

> Amongst the Greeks it was commonly known by the name of Catagma: I purpose not to trouble you with the nice distinctions in Fractures, nor yet with their various names. Galen in his Book de method, medendi complains, that in his time non defunt ex Medicis funioribus qui ambitiose omnes fracturarum differentias propriis nominibus interpretantur, there wanted not (faith he) young Physicians who affected to give proper names to all the several kinds of Fractures; At non Hippocrates hujus fuit sentena tia; nor shall I spend my time so: But according

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to Galen do take the difference in Fractures to arise, D. Geren-I. à figura. 2. à magnitudine. 3. ab ossium fracto-ces. rum varietate: First from their Figure, it is either Right qua fit per longitudinem, or transverse per latitudinem, or oblique which is as it were compounded out of the two former. Secondly, a magnitudine according as the Fracture is greater or lesser. The Third difference is ab offibus ipsis, that is from the Bones themselves that are broken, whether it be the Arm, Leg, Ribs, &c.

Causes of Fractures internal there are none, un Causes. less it be ab humoribus corporis erodentibus, and of that fort you may read many in Skenkins, Fabr. Hildanus, and others: I my felf have feen some, and lately, but these being from Erosion are rather to be called Ulcers with Caries, and therefore more fit to be discourst of amongst Ulcers of that kind, to which I refer you.

Of Causes external there are many, as the too violent affaults or strokes of all external things, which may bruise, break, shatter or bend. In this number of causes may also be reckoned falls from

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The Signs of a Fracture without a wound are Signs. for the most part very evident; the first and most certain is, when in our handling it we feel the pieces of Bones fever'd a funder, and hear them crackle: Secondly, the Impotency of the Member: Thirdly, vehement pain: Fourthly, a distortion of the part; also by comparing the one with the other, the Fractured Member being shorter. But if there be a wound joined to the Fracture, then if the Bones thrust themselves not forth, yet you may easily

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easily know it to be Fractured, if you search with your finger or Probe. There is also a curvedness which may be reduced to Fracture; I have feen it: in children often, as in D. C's. little daughter in the Old-Baily, and Mr. N's. Son in Black-fryars, and others: It is as it were when you break a green stick, it breaks but separates not, so is cured by an due Extention with little trouble to the Chirurgeon, or pain to the Patient after the Extension is made,

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If the Fractures be secundum longitudinem, itt will appear first by the unnatural thickness of the Member, then by the pain and inequality of the part.

Prognoflicks.

In Prognostick or presage, a Fracture of the Bones cannot be without danger, for of necessity the Solution of continuity must be great. If a wound be made in a fleshy part, the wound is proportionable to the weapon that made it, & non ultra: But if the Bone be broken propter Rigiditatem & continuitatem non potest françi nisi totum françatur. The Fracture is more dangerous in a greatt bone than in a small, and the greater if the bones be broken, as the two Focills in the Leg or in the Arm! where the radius and ulna are; yet if in the middle of the bones, it is the less dangerous: Those im or near the Joint are more painful and difficultly cured, and if any shivers press upon the Nervous parts, ill accidents commonly follow. A Fracture with a wound is the most dangerous of all. As to the time of Cure, the leffer bones are perfected in 14, 18, or 25 daies; the bigger in 40, or 50) according to Guido: yet let me advise you now to be too hasty in taking them out of their Beds, for in

in some Bodies the generation of Callus is very slow, and a new distortion may happen, and ill accidents follow. I have been call'd in to consultation upon such an Accident, the Patient did recover, but by lying so long within doors contracted such an ill habit of body, as was not got off in a long while after.

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In the cure of Fractures, Unition is required; but that cannot be made, unless pain and Inflamation be prevented; For a Fracture of the Bones is not made without an Internal wounding of the Periostium and parts next to it, whence grievous pain arises, which stirs up defluxion, and is attended often with great Inflamation, and from the weakness of the Member many Excrements are made and received, which it is neither capable to affimilate, nor yet expel; and the mischief is the greater, by how much the Bones lye deeper within the Muscles, where they cannot be set by reason of the great quantity of flesh, interposing between them and the hand of the Artist: The Intention pursued in this case is the union of Bones, as I have already faid, which is not performed by the first Intention, unless it be in little children, but by the second, viz. an intervening of Callus.

The Method I thereto propose, is first to joyn Intentions the fractured parts together; Seconly, to keep them of Cure. so joyned; Thirdly, to preserve the Tone of the part; Fourthly, to generate Callus; Fifthly, to correct Accidents.

That parts may be rightly joyned together, there I Intenis need of Extension and Coaptation; for in fractures, tion.

I 2 especially especially transverse ones, the bones are commonly distorted, the rectitude of the Member lost, some parts are prominent, and others hollow, the Fractured bones lying one upon another, and fo the Member made short, quia musculi perpetuo mem brum trebunt versus suum principium: for which

Extension. cause extension is necessary, that the parts which are indirect may be brought right, and the partie on that stick out be reduced to their Cavities. And the although sometimes, the Member seemeth not to bold in thort, as if it confifts of two bones and one brook ken, or that the Fractured bones do not lye on over another, nevertheless you ought to make due to extension in all Fractures, because they never ly exactly equal, and most frequently they ride one as over another; The want of which Extension is on the reason, why the Fractured Thigh bones hap to be so often shorter than they should be, as Celsus hatte it in these words, Si femur perfractum fuerit bree we vius erit; his reason is, Quia nunquam in antiquum statum revertitur: And I find in Galen, that Hipporter crates saies the same of the Leg and Arm, and with al tells us it is nisi ante confirmationem extensio debi ta adhibeatur & comoda deligatione ossum coaptati servetur; by which you may observe the fault want of good Extension, and keeping the part in its right feat, elfe you shall hazard the starting again of the Bones, and thereby their Fractured end may hap to be broken off, by mutual Attrition i the Act of joining together; and if they do chance to fall in again, between the Fractured bones, the will then hinder their uniting, and if those thiver flide outwardly towards the Membranes, they will cause extream pain; This Inconvenience is there fore to be shun'd by the help of Extension, but again

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in Extension, there must be observed a mean, as Vigo notes to us, ad magnam quidem Extensionem futurus spasmus valde suspectus est. Yea sometime the very Muscles are torne a sunder, as Galen tells us, and Albucasius cries out cave extensionem vehementem & compressionem fortem sicut faciunt multi stolidorum, multoties enim faciunt Apostema calidum & contractionem in membro; by which it seems in his time there was fuch a people, who thereby drew sad accidents, as Convulsions and Inflamations upon their Patients: But yet if the Extension be less than it should, then as I said before the ends of the bones rub one against another, and are broken or not leated in their proper place; Therefore the bigger sones having large Muscles, which draw the Member forceably to their original, do require the stronger Extension, and such are the Thighs, Legs and Arms; and if both the Focills be broken, the more Extension the Radius requires, lest because, it hath no Muscles to draw it upwards, its motion being only secundum pronum & supinum: In Extenfion it behoves us to observe debitam figurationem. that the Member be extended in ea figura qua minimum facit dolorem faith Galen, which is done if the Fibres of the Muscles be stretcht, according to their rectitude; children and fuch as are of a foft habit of body do best suffer Extension, elderly and dry bodies the contrary.

In the next place is to be considered the most rea- When to sonable time to reduce the Fractures, and herein we be made. all agree, the sooner the better, and that to avoid the Instamation according to Celsus, Si in primis diebus non restauratur, Instamatio oritur, sub qua difficile or periculosa vis Nervis adhibetur: If at I 2

the first or second day the Fracture be not reduced, it is in danger of Instantation and Mortification, for indeed after the second day its supposed, the Fracture is accompanied with great defluxion, so yields not to Extension, without hazard of drawing such

ill accidents upon it felf.

Therefore Fallop in his exposition upon Hipocrates de Capitis vulneribus, and by his Authority tells; us what we shall do in such a case, Si os non fueritt in suo loco, saies he, Ideo ad septimam, qui est primus Terminus Inflamationis, vel usque ad nonam, qui est secundus, debemus bene advertere, & oportet Impedire Inflamationem, if the bone was not restored before the time of Inflamation, then we ought to attend till the seventh day, which is the first period of the Inflamation, or until the ninth day, which is the second period, and all this time we ought to restrain the defluxion, vel per lenitionem doloris ver expressionem & deligationem loci, lenimus autem Medicamentis, oleosis que habent vim refrigerandi per deligationem pluribus fasciis, either by lenien Medicines, or by deligation: We lenifie with foff cooling oyls, we make our deligation or Bandage by many turns of the roulers, these are to be done until the Seventh or Ninth day; Inflamation abating there is opportunity for reducing the Fracture The Instruments for Extension are threefold. First the Chirurgeons hand for gentle Extension; and let him place his hand near the Fracture, other wife he shall hurt the found part, by too much compression, and not avail himself much in his Ex tension; Secondly, for the middle Extension are funes and habens, a fort of Bandage fit to pluck a in order to Extension. Thirdly, are organa & machi namenta Engins used often by us, but invented by

Instruments of . Extension. the Ancients, and they are for the most strong Extension; but before you make your Extension, consider whether the Member be not Fractured in more places than one. An old Gentleman came out of the Countrey, by a fall going down Ludgate-hill, breaks his Right Arm a little above the wrist transverse, and near the bending of the Arm a second Fracture oblique, this double Fracture hath hapned to others in the Leg, it requires your circumspection, lest the one escape your sight, and the Member lest desormed and weakned in its Action.

The Extension made; the Extenders are to be 2 Coaptaloosed gently, and the Operator shall with his hand tion. endeavour as gently to press down the ends of the Bones, and joyn them smooth and even together; and if there be any little Shiver, that will not be placed even with his fellows, cut upon it, and take it out, you shall know the perfect Coaptation of parts by these Signs: First, if the fractured Mem-Signs of ber answer to the sound; Secondly, if by your good Cohandling of it you feel no inequality; and Thirdly, if pain be abated.

The Second Intention in Curing of Fractures is, 2 Intention that the parts brought together may so be preserved, and that is performed by Bandage, which ought to be so made, as not only to keep the parts so joyned together, but to defend them from Inflamation; and to this purpose I commend to you that of Hip. and from my own practice. It consists of 3 Roulers made of Linnen Cloath, not too coarse, lest by its hardness it offend the part affected, nor yet too soft and sine, lest it break; with the first Rouler you are to begin up- 1 Rouler. on the fracture, and take three turns, then roule up-

ward to the found part, and fo at the upper-part end this Rouler; it will steady the fracture a little, until the other Bandage be made, and restrain the influx of humors which might cause inflamation.

Second Rouler.

And the fecond Rouler as long again as the first, must be rouled contrary to the first; so as if the first was made to the right hand, then this must be turned to the left: So that if the Muscles by the first Bandage were wreathed too much on one fide, they now may be restored again to the other. This second Rouler begins upon the fracture, and after a turn there is carried downwards, that fo you may press the influx of humor from the fractured part, and so having made three or four turns downward upon the found part, you may roul upward again by the fracture, and making a circumvolution upon the fracture itself, pass upwards, until you come to the end of the first Rouler. And there Hippocrates terminates this fecond Bandage, because there is fear of the descent of humours a parte superiori, and these two Bandages do more defend the part from inflamation, than strengthen the fracture; but they being made, Hippocrates puts over them (about the fracture) compresses of Linnencloath three or four times doubled, of fuch length as to reach over the fracture, but so narrow, as that five or fix might be placed over about the fracture, the distance of a finger one from another, and are to spread with a little Cerot, only to make them stick; these are called Plagula and Splenia from their figure, and do supply the absence of agglutinative Medicaments, and lessen pain by hindring the compression of the Bandage.

Splenia.

The third Rouler of Hippocrates fastens the said Third Compresses; and its first turn is made upon the fracture, the one head is carried upwards, and the other downwards: And you are to take notice, that the Bandages are to be drawn more straight upon the fractured parts than elsewhere, that the fractured part being more weak may be kept from dessurions.

Celfus in his Eighth Book and Tenth Chapter, Celfus's proposes another way of Bandage, first he dips a way of cloath in red Wine and Oyle, and applied it over rouling. and about the fracture, and after he brings fix Roulers, his two first are those of Hippocrates, and so rouled, over them, he brings a broad Linnencloath, spread with Cerot, to keep them close down, and because the fractured bone hath always a propenfity that way, whither it tended when fractured; therefore faith he, You are always to put a Compress of Linnen-cloath dipt in Wine and Oyle, Ei parti que contraria est parti in quam membrum inclinat, and over this he brings the four remaining roulers; so as the following rouler be rouled contrary to the former, and the third end in inferiori parte, in the lower part, relique omnes in superiori terminum habeant, all the rest end above.

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These are the Bandages of Hippocrates and Celsus, men of the greatest authority in Chirurgery, and are followed almost by all that have writ since, and are of excellent use in fractures, in and near the Joynts, where there is fear of inflamation: But then in your Binding you must observe such a mean, as consists with the ease of the member bound.

122 An Appendix to the Gun-Shot-Wounds.

Sign of good Ban-dage.

bound. A small and lax tumor appearing at the extremity of the member a day after, is a sign of good Bandage; but if there appear no tumor, or if the swelling be great and hard, then the Bandage is nought; the first shewing the Bandage not to be straight enough, and the last too straight, therefore you should often visit your Patient, to inform your self how the Bandage is.

Bandage, when to loofen.

But if no accident happen, you shall not unbind the fracture until the seventh day; and then if all be well, the Bandage will begin to flack of it felf, and that is one reason, why fractures should be opened about that time; another cause may be, for that often in fractures there is an intolerable itching through the detention of humors, which are made sharp by deligation, perspiration being thereby hindred, and is wont to terminate in a most painful excoriation and inflamed redness: And in this case you are to bath the affected part with warm water, that the Matter may be evaporated, and then the member is to be bound up again; but now at this time you are to put Ferula or Splints instead of the Splenia or Compresses, but in fractures with great contusion, or in and near the Joynts, there I have continued the use of Compresses wet in white of Eggs; during the whole cure, with good fuccess: And lately a youth about ten years of Age, labouring under a Carious Ulcer in his foot, the last great frost brake his Thigh-bone, according to the length of the member: This fracture was dreft by my Emplast. e Bolo with Splenia, moistened with Albumin. ovor. this with Bandage, &c. as is proposed in this Treatise, confirmed the Callus; Mr. Yowell, sometimes a servant of mine, set his Thigh现在,

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Thigh-bone for me, I being at that present otherwife imployed. But all the Ancients, after the feventh day did use Splints, and so have I where they might fafely be used; for they not only keep the member steady, but straight, and of these some are made of Tin, others of Scabboard, Pastboard, and of wood fowed up in Linnen-cloaths; those of Tin do very well by reason of their lightness; those of Scabboards are apt to bow, and so is the thickest Pastboard, especially if they chance to be wet: and those of Wood are heavy and apt to inflame the member, yet through the Artists care they may be all used with good success, yea from the first day of the fracture: As in the case of a Reverend Divine, who brake both the Focils of his left Leg. within a few fingers breadth of the Ankle: This person laboured under an Astma, which grievoully shaked the fractured member, wherefore I was necessitated to put on Ferula the very first dreffing, and continued the use of them during the whole time of his cure; he lately told me that he never felt the least pain in that Leg, fince I took off the last Emplaster, which is more than ten years fince. But Hippocrates used them not until the seventh day, for before that day there was more need of hindring the inflamation, than of strengthering the fracture, post septimam contra, but afterward the contrary is required.

The third Intention in curing of fractures is in Third Inpreserving the tone of the part; Natura enim os tention.

unire nequit nisi pars sit sana, Nature cannot knit
the bones while the parts are distempered, and that
cannot presently be removed; for though fractured parts be very well set, yet there will remain
some

fome Cavernula, which will be apt to fill with Sanies, and the part through its weakness can neither well affimilate nor expel, fo is like to be burdened with Excrementitious humors: Therefore Phlebotomy may be here of especial use, and the keeping of the belly foluble by Clysters, or otherwise, and a slender diet prescribed; but this is the work of a Physician. Yet they not being alway at hand, I thought fit to mention it, and so to proceed to our own work, in keeping up the tone of the part, and hereto we have need of fuch medicines. teriam influxam desiccant & inflammationem repellunt, which dry up serosities and repel inflamation: And these in a word are Astrinventia, of which we have choice. Hippocrates he used Cerot. then red Wine; Cellus, you have heard, he used Wine and Oile; others used Oile of Mirtils, Rofes, red Wine, and whites of Eggs together; others again used whites of Eggs alone; and others added oils of Myrtill. Balaust. Ros. Rubr. Sang. Dracon, Bol. Armen, with a little Oil and Wine made up to the confistence of a linement, and applied upon cloaths over the fracture. By the use of this latter medicament, I cured a man whose Arm was fore bruifed and fractured in many pieces, by the fall of a piece of Cannon, which brake loofe in a storm, while we were preparing to lay aboard our enemy; over this Restrictive I applied the Splenia of double fost Lining with Bandage, as in Compound Fractures, and happily cured him. If the inflamation be not great, I then take off the Empl. Diapalma, and some of the forementioned powders, with a little oile of Myrtles and Vinegar, made up to the consistence of an Emplaster. This I call my Empl. de Bolo, which I spread upon cloath

Empl. de Bole.

pretty

pretty thick, and apply over the fracture, and this not only restrains the defluxions, but strengthens the fracture: They are all very good, if they be proportioned to the malady, and excellently preferve the tone of the part.

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There is yet farther requisite to the performance Position of of this Intention, position of the member, and that the memaccording to Gallen, debet effe mollis, the hurt part berought to lye foft, for that hard lying presses and causes pain and inflamation, debet esse aqualis ne distorquent, it must lye smooth or equal, because an uneven scite distorts or draws a-wry the part; Sursum versus ne humores descendant, it should lye somewhat high, lest a painful defluxion fall upon it; Oportet congruam membri figurationem considerare, It behoves, faith Hildanus, to confider the convenient figure of the member, that the Muscles be kept in their right scite, which is most free from pain, bec autem est figura media, which if it be not observed, Exiquo post tempore membrum dolere solet; What those pains are you possibly may gues, but no tongue can express, therefore you ought to handle the member very tenderly, and if the fracture be made in cubito, place it in a Cafe made of Pastboard, with a fost pillow under it, and bring it up to the breast with a fine Towel, or the like: But if it be the Leg that is fractured, we then place it in a bed, and in a Cradle, or upon a Pillow quilted in the midst with Juncks to support it, having a special care, that the hollow of the Ham and Heel be fill'd up, lest the weight of the Foot hurt the Heel, from whence grievous pain dothenfue, and fad accidents may, as fome of us have feen, or at large may read in Fabr. Hildanus.

The

Fourth Intention. The fourth Intention is Callum Generare, to make Callus, which is to be endeavoured after the fear of inflamation is over, Quia natura partis lasa non potest Callum Generare, and that ceaseth circa diem septimam, about the seventh day sooner or later, and if after that time the fracture is to be set, possunt diversa & mala accidentia generari, saith Vigo, yet after the seventeenth day of the fracture, I have set the Thigh-bone, and cured the Patient, who is living without any ill accidents.

How the Callus is made, you may read at large in Fallopius, in his exposition on Hippocrates; and though it be not bone, it is so hard, saith he, that if the member hap again to be broke, potius in alia parte frangitur quam ubi Callus est Genitus, it breaks any

where rather than in the Callus.

Two things are therefore required: First, that it's to be supplied with fit matter. Secondly, That that matter be not wasted from the edges of the fractured bones, aut for as evocetur, faith Galen; as for the matter to make Callus, most Authors do agree, that there be a greater liberty in diet; At quo tempore (saith Galen) Callus gionitur, nutriendum corpus est cibis boni succi, & qui multum nutriant, and that viscuous, his reason is, Quia offis alimentum crassum, and thenceforth they commend at this time offall of flesh, and broaths of Kid and Veal, and the like which are boiled with Rice or Wheat; they also allow sweet Wines: But this liberty in diet I think is better forborn, for thereby we often see great obstructions arise, especially here, where our Patients are inclinable to feed plentifully; therefore in such fractures, where the Patient

Diet for the ingendring of Callus. 4 10

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tient is constrained to keep his bed, I propose a slender diet, and of such things as are of easie digestion, for without that liberty furely we cannot fail to compleat our cure; the bones having naturally a porinefs in them, in which is always contained a matter fit for their nourishment, and ex illoipso nutrimento in fracturis Generatur Callus, of that nourishment Callus is made: So if you be careful to prevent inflamation, and the like mifchiefs, which disturb nature in her actions, and apply fuch remedies as may dry the proper nourishment into Callus, we shall not fail then of our defire, and they according to Galen ought to be Emplastick and moderately hot; for faith he, Ea Callos tum promovent, tum augent; qua digerendi vim obtinent, ea magnos jam Callos diminuunt: Therefore it behoves us with care to fit our Medicines to the age and constitution of our Patients: For those which are proper for men of ripe age, if applied to children and tender bodies, would so dry the Callus, as it would quite diminish it, and frustrate our cure: In children Albucasias commends to us whites of Eggs alone, or with a little Farina Volasilis; In those of more years, Pul. Myrrha, Aloes, Acatia, Gum Tragacant Thuris, Labdani, &c. the Emplasters of Paracels. Diapalma, Oxycroceum, feverally or mixt: But this latter Vigo is very angry with, and fays 'tis a Diabolical Emplaster, too hot for the Summer, and not very proper for Winter; Vigoes Emplaster, ad ossium fracturas is excellent, and fo is our Catagmaticum in the London-Dispensatory. As to Internal medicines there are many, but I shall only recommend to you Offrecolla, and that by the authority of Fabr. Hildanus, who often experienc'd it, its Dose 3j. in Aq. Rad. SimplySimplyti, and with this so given, he cured a Compound Fracture in one above sixty years of age, at in juvenibus & succulentis non putat convenire ofteocollam.

Thus I have proposed fit materials for the generation of Callus; now lest that the matter of which it is to be generated should be hindred from thrusting forth, it behoveth you to alter the Bandage, the member not to be rouled now so straight; by which means the nutritious juices will have liberty to flow in, and there by gradual digestion to thicken into a Callus: In the opening it, you are to consider whether the Callus generated be such as is required, how the fault of the Callus is to be remedied, if it be less or greater than it should be, you shall hear presently.

Thus I have done with Fractures in General, which if they be Simple, whether transverse, or secundum longitudinem, are cured by the same methods, only those which are secundum longitudinem require a more strict Bandage, otherwise the bones will be apt to gape: I hasten to the fifth Intention:

Fifth Intention,

Which is correcting of those accidents, which happening in Fractures retard their cure, and they are many; as Pain, Inflamation, Aposthumation, Gangrene, Itching, Excoriation, Callus more or less than should be, weakness of the member and depraved figure: If Pain invade the place, then Lenients are proper, and such as restrain defluxion, and hinder inflamation, and of which fort I have mentioned some, and for more variety, refer you to those who have written of a Phlegonon. If Gan-

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grene appear, flacken your Bandage, and foment the part with a Lixivium, in which hath been boiled Scordium Absinth. Centaur. and the like, and you may apply over all a Cataplasma with Barleymeal, Lupines, with the tops of the forementioned Herbs, and the like powdered, adding Oxymell to it: But if Itching affect the part, then foment the part with warm water, which will give a breathing to it by the pores, or with falt-water, Que propter salem expurgat & poros aperit; the Itching neglected, is wont to terminate in excoriationem dolorosam, a very painful excoriation, cui occurrendum est exficcantibus & refrigerantibus, such are Ung. Album, Camph. Nutritum, Populeon, &c.

As to the Callus, it is sometime just, sometimes Callus to greater or lesser than just; if it be too great, you lessen. will perceive it by its bunching out; as also it will be painful to the touch or pressure, and besides it renders the part unapt for motion; in this case abate his diet, and make your Bandage more strict, and foment with discutients, and apply Emp. de Cicutà, de Ranis cum Mercurio, &c.

But if the Callus be less, the signs are quod ad motum redditur debilis, the bone is weak, and if the part be toucht you scarce feel the Callus; and this was thought by the Ancients to proceed from slenderness of diet, or that it was not enough incrassating: But I think it rather proceeded from impro- Callus to per applications, or too straight Bandage; yet if encrease. the Patient be in years, and of a spare body, you may both increase and incrassate his diet, but withal flacken your Bandage; and invite forth the hunors by warm water, not too hot; donec pars ru-

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fwell tunc enim desistendum: But if the member be extenuated, it's either from the too straight Bandage, or over-much bathing with warm water; therefore you must now bath with fresh broaths, and good Embrocations, also a Pitch-plaster applied, and presently pulled off again, will by its adhesion to the hair and skin cause pain, and also an attraction of aliment to the part, and so the member is nourished.

Also after the fracture is cured, the member iss too oft found to be of a depraved figure, by reason the bones were not well set, or through ill Bandage, or some inordinate motion, aut propter inscitiam Chirurgi. To help this, if the Patient bee young and lusty, and the Callus but six months old; There is, saith Celsus, yet one refuge, that is fracturam de novo rumpere; and in order thereuntor, you are to soment the part with decoctions, ex Allabaa, Cicuta, and then rursus os frangitur manibus wel digitis, impellendo seu comprimendo.

But if the Callus be yet so hard, as it yields not then says Fab. ab Aq. Pend. Frango eum instrumento attrahente in diversas partes: But this Allbucasius a Chirurgeon, as bold as any, and one than had seen the effects of such rash undertakings, utilities perducens ad mortem: So advises the Patient, non to give ear to such vain people, but content them selves with such help as Emollients, Decoctions. Linements, and Emplasters may effect, which in truth is safer, if you consider that after the Callus is so confirmed, as it yields not to extension, than

I say if you should break it anew, or any other way separate it; yet it would no more yield to a right coaptation, than a Hare-lip or my two fingers will to agglutination, without separating their dry body, which is not possible to be done in Bones.

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I could here insert many of my Cures in Fractures of particular parts, but it would signifie Observalittle more than I have already written, their cure confifting in the very same extension and coaptation, and are subject to no other Accidents: all which I have writ as plainly and feelingly, as if I had been performing the work in your presence. Yet as a rarity I shall tell you, that in Bridewell some years before the Fire, I was sent for to a poor Widow inhabiting there, whose little Son, of about eight years of age, playing about the Wharf, was struck by one of those great Cart-horses full in the face, Ariking the Ethmoides quite in from the os Cribriforme, without any great wound: The Boy lay for dead a while, and dozed longer; it appeared a strange fight at first to me, his face beaten in, and the lower Jaw sticking out, nor did I presently know how to help him; by what Art to make my extension; But after a while, he a little recovering his fenses, was perswaded to open his mouth. There I fee the os Palati and Uvula carried fo close back, that it was not possible for me to get my finger behind, and other way of extension there was none: Upon which I presently formed an Instrument bended up at one end, by which I got up behind the Ovula, then raising it a little upward, pull'd it forward with the Ethmoides into its former place very easily; but I no sooner let go my extender, than the Body returned back again: Upon which

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I contented my self in dressing up the face with a restrictive Cerot to prevent influx of humors, and let him bloud, and within sew hours after caused an Instrument to be made, whereby the great fractual red Body was more easily brought into its natural place, and also kept there by the hand of the Child his Mother and my Servants helping him some while, other way there was none. Thus by their and our care, the Tone of the part was preserved and a Callus thrust forth, which as it hardened, the part grew stronger, and the face restored to a good shape, better than could have been hoped from such a distortion in that place. The Patient is you alive and well.

Compound Fractures.

Thus have I done with that which concern Simple Fractures. In a fracture with a wound, neither the bone be bare, nor yet prominer through the skin, then you are by extension bring the fractured ends of the bone together, was proposed in the first and second Intention Simple Fractures; and the lips of the wound at the likewise to be brought together by Suture, if it any-whit large, and not too much contused; while manner of dreffing is contrary to what is taught Gun-shor-wounds with fracture; the method by ing to be altered upon that occasion, for the refons there alledged. Then endeavour as in contain third Intention, to keep the fractured and wound parts together by dreffings, which may as will be mittigate the pain, as keep off apostemation, repelling the matter flowing to the part, and der ing that already flown, Qualia funt Astringenti Glutinantia, of which fort I have sufficiently offer ed unto you, in the Discourse of Simple Fractur

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Galen, by the authority of Hippocrates, recommends Cerot of Roses, but if their be no pain, you are to endeavour the strengthening of the fracture, and preventing defluxions by cloaths spread, with that composition of Astringent powders mixt with the whites of Eggs and red Wine, which is already proposed: Then follows deligation of the part, and in this case Bandages are to be made of softer and broader Linnen than we use in fractures without a wound, that it may comprehend both the lips of the wound, and keep them down, yet not hurt them by its too hard compression, Minus Astringendæ sunt fasciæ quam si vulnus non adesset, says Celsus, and therefore it is that Hippocrates and Celsus make so many Circumvolutions: cum melius sit sape circumire quam astringere, (saith Celsus again) The third day they loofe the Bandage, then ferula vel non apponenda ne vulnus comprimant, saith Albucasis; or if they be put on, super vulnus apponi non debent; rather in these fractures do we use deligation, pluribus fasciis with many Roulers, faith Albucasis; and so all along he goes in his Sermons of Fractures, as if he had been rather bred under Hippocrates or Celsus in Greece or Italy, than where he was; But in truth this way of deligation is not only very troublesome to the Chirurgeon, to put on and off, but so very painful to the Patient, that it is almost impossible that he should ever be without a Fever, if his wound be every day to be so roul'd and unroul'd: Therefore in these Compound Fractures we chuse rather to follow the method of some of the Moderns, who instead of these many long Roulers, make choice of two or three short cloaths, folded three or four times to give them the more strength, and of such K 3 breadth

breadth as to encompass the lips of the wound and fractured parts, and of that length as to come once about the fracture, and so stitch together on the most convenient side; and under these may be placed Compresses of fine Tow or double: cloaths, which will not only keep the lips of the: wound down, but fill up the inequality, and further the expulsion of Matter: And fo the wound may be drest, and the fractured member relieved! at your pleasure, without giving the Patient the pain to have the fractured member removed, or your felf the trouble in rouling and unrouling for many long Roulers as the Ancients propoled; and with this method I have cured Arms and Legs, for shattered by Splinters from Cannon shot, and with fuch loss of substance, as I even despaired on their Cure. But in some of these I have made use of Hippocrate's Plagula, and often for the more strengthening the shattered member, have been glad to make use of some Splints, from the first day, but so as their compression was gentle and equal, and so placed, that the lips wound might be kept even, and that the discharge of Matter was by them furthered: But if the wound be transverse, it then requires more cauti on, lest the Matter should at any time be prest back into the wound, and so not only dilate it, but four the bones: Thus much for a Fracture with wound, where the bones are not exposed to the Air, but if the bone be bare, and thrust it felf out of the wound, and yet is again restored to its placed

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A Commander at Sea valiantly fighting in the midst of the enemies Fleet, his Leg was fractured to

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by the fall of his Mizon-Top-Mast, it breaking his Leg transverse near the Ankle, the edge of the bone thrusting out through the skin. He not fuffering the bone then presently to be set while it was warm, afterwards being swell'd and stiff, it did not yield to extension, but became painful and inflamed: After some few days he was brought to London, I was fent to him, he was of an ill habit of Body, subject to the Gout and dysenteries, and the Fracture accompanied with great defluxion, not in a condition to admit of Extension; therefore according to Falopius upon Hippocrates cited by me in this Treatife, I proposed to his Chirurgeon to proceed by Lenients, to mitigate pain, Inflamation, and by Bandage to hinder defluxion, which we did, and his Chirurgeon continued that method a few days: The Accidents gone off, Mr. Arris, Mr. Holtyer, and my felf, met Mr. Pearce his Royal Highness's Chirurgeon at the Patients Lodging, with the Chirurgeon of the Ship, we find the Patient in ease, taking off the dressings we see the Member in good temper, we agree to make Extension and reduce the Fracture, the Patient was of a dry tough Body, the Member yielding difficultly to Extension, we fatisfied our felves with what we had done, doubting that upon a more forcible Extension, ill Accidents might follow (as an Inflamation presently did) we dreft it up as a Compound Fracture, so as the wound was daily drest, and after some while a Callus thrust forth and united the Bones. That Callus confirmed and dried, we haltned the Exfoliation of the bare Bone, by a little Egyptiacum & pul. myrrhæ disolved in sp. vini applyed hot upon an Armed Probe: Thus the Bone was Exfoliated and the Ulcer cured by the ordinary Intentions required

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in them. Yet that inward leaning of the Bone, continued a weakness a long-time, as is usual where the Fracture hath not been timely reduced. To supply this, I cause a Bar to be fixed in his Shooe with Joints, this by a Bandage strengthned his Leg, whether he hath yet left it off I know not: But if the end of the bared Bone have thrust it self so out, as that without great force it cannot be restored to its place, Tunc è duobus malis minus est eligengendum, then that end of the Bone which hath thrust it self so far out is to be Sawed off, and if this be done timely before a Gangrene hath seazed upon the parte it may be performed with good success.

Observa-

In St. Clements parish behind the Church, some years fince one Evening while I was preparing my dreffings for the Setting a Fractured Thigh bone in a little Child, I was presently fetcht to assist one Mr. P. a Barber-Chirurgeon in the Setting a Fracture of both the Focils of the Leg in a man of about Sixty years of Age, of a Tough dry body. There I met Mr. Tatham an endustrious knowing Chirurgeon, the Fracture was oblique almost fecundum longitudinem, and the os Tibia or greater Focil had shot it self out by the inside of the Ankle a great length; we endeavoured by a strong Extenfion to Reduce this Fractured Bone into its place, but the bone yielded very difficultly to our Extenfion: Yet we reduced it, then cleanfed the wound of what we met of the Shivers or pieces of Bones, and brought the Lips of the wound together by Suture, hoping thus to keep the Fractued Bone the closer. Then we drest the wound with our digestive warm, and with an Emplaster of diacalc. malaxt Œ,

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malaxt with ol. Rof. over it a mixture of flor. Rof. rub. Balauft. Baccar. myrt. Bol. Armen. sang. drac. pulverizat, cum albumine over, ol. Rof. & acet. m. ad confist. mellis: This spread upon a double cloath. and applyed over the Fractured Member and fastned by Bandage as hath been proposed in compound Fractures; but for the more strengthening the Fractured Member, we put on Ferula with fost compresses between them and the first Bandage, and having fastned them by three Ligatures, we placed the Member as much to the ease of the Patient as we could contrive, upon a Pillow quilted in the the middle with Juncks to keep it steddy; but these great Fractures with large wounds and near the Joint, are always subject to grievous pain; and this much more, for that the Tendons and Musculous flesh was fore bruised, and stretcht by the great Extension, so was not likely to be attended with less mischief than afterward befell it : We Let him bloud that night and gave him an Anodyne draught to dispose him to Rest, but he slept little his pains continuing with much disturbance; a fever followed, and within two or three daies he became delirous, and in the absence of his attendance got out of Bed, the great Focil flew out as at first, and the poor man fell down on the floor as half dead: We were both presently fetcht, we took off the dresfings and fee the Bone difforted, the lower Stitches broken, and the wound of an ill Aspect, it tending to mortification without hopes of being any more reduced by a new Extension. Upon which consideration we resolved to Saw the end of it off, and to that purpose having prepared all things ready, we cut out the remaining Stitches, and turned the foot on one fide towards the small of the Leg, thrusting the

the Bone more out; the one Sawing the end off whilst the other with a Spatula defended the Tendinous flesh underneath from being wounded by the Saw: That done we cleanfed the wound from the Saw-dust and Shivers of little Bones, which we had not discovered in our first dressing, they lying under between the distorted Bone and Membranes, by which those fad Accidents had been hastened: The wound thus cleanfed we turned the foot right in to its natural place, there being no need of Extension; The great work was now, how to support the foot and keep it even with the Leg, there being so great a distance between them without any whole Bone, we scarified the Lips of the wound and washt them with Spi. vin. with a little agyptiac. dissolved in it, and dreffing the ends of the Bones with Pledgets dipt in it, and prest out, we drest the rest of the Bone with ung. Basilic. with a little ol. Terebinth. warm, with an Empl. of Paracelf. & diacalcith mixt, and applyed it over the wound and parts about with a Compress and Bandage over that, as in compound Fractures, and placing the Leg as before upon a Pillow, he was again put in to his Bed, we committing him now to the care of his friends to keep him still, and ordered him Cordial Julips, &c. and after some hours Let him bloud again. From that time his pains lessened, and his Fever and other ill Symptomes went off as the wound digested. But after some daies, the heel became very painful and was discovered to us Inflamed with an Ulceration to the very Bone. The Patient not permitting to have his foot stir'd, it had not been raised up, as for perspiration it ought to have been, whence this Ulcer became very troublesome to us. For a present relief we laid him upon his fide, and drest the Ulcer with Lenients the

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Lenients to haften separation of that Escar, and because the Patient grew soon weary of this position, which also was inconvenient for our drefling the great wound, we therefore defigned an Instrument of Tin to receive his foot and leg, his heel to lye hollow in a place cut for the purpole, whereby we could daily dress it without disturbing the Patient; only placing him down lower toward the Beds feet, as the heel might lye over it; the fide of this Instrument that came up by the wound, was to be taken off at time of dreffing his wound, and afterward placed close again, whereby he was dreft without disturbing the weak Member. It lay also soft by the folds of Linnen we placed under, and between the Leg and Instrument, and was kept straight in hopes it might be supplied with Callus, but the wound became Sinuous, the Matter fowling the Bones, hindred the growth of Callus, and while we waited for Exfoliation, the Lips of the Ulcer became callous, which prolong'd the Cure: The Ulcer in the heel we digested, and after we found the Bone would not Incarn, we dreft it with agyptiac, with a little Merc. Subl. dissolved in it, by which dressing we hastened the Exfoliation of the Bones, and cured the Ulcer: The wound above was after the generation of Callus cured, as a Fistula with a carious Bone. The Patient lived many years after, but through the ill disposition of the Ulcer, the Callus was hindred in its growth, whereby the Leg remained the shorter almost as much as had been Sawed off of the Bone; yet this was better I suppose than to leave the Bone distorted until digestion, as in a fuch like case I have seen it.

But if the Bone be not so much distorted, as that you

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you may come to Saw off the end of it, nor yet cannot reduce the Bone after the ordinary way, then you may with a Chizil-like Instrument, thrust between the Fractured ends of the Bone, and nse it after the manner of a leaver for the reduction of the prominencies; But then it's supposed these fractured ends of them are within the wound. and not much over-shot one another, and the Fracture is transverse or oblique, otherwise this way will do little good; Nay possibly Rive up the piece of bone, and make another kind of Fracture, and grievously pain your Patient; and that you may do if the ends break off upon your hard and unsteddy Extension: Therefore it becomes us to be very wary in making this extension, else I say, we may grievously pain our Patient, and do him little good.

But to conclude, after your extension is made, and the Bone reduced, you are to feel if there be any Shivers of bones loose, and pull them out; and if you perform this operation in a fracture newly made, then you are to prevent Inflamation and all other accidents, by dressing up the Patient with such Medicines as hath been proposed in compound Fractures, and make your Bandage so as you may come to dress the wound, as occasion shall offer, with as little molestation to the Fractured Member as is possible, having a care you grieve not the tender parts with Splints, until the Inflamation be over, and the wound well digested.

Then afterwards 'tis to be endeavoured, that the bones rob'd of their periostium may again be Incarnated or Exfoliated, which is the work of Nature, yet ought to be helpt by Medicines, which have a

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An Appendix to the Gun-shot-Wounds.

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manifest hot quality and a peculiar faculty thereto, of which there are are enough in the Treatise of Gun-shot-wounds.

The Bones Exfoliated, the rest will do it self, or may be performed by Epuloticks, of which you may have choice in this Book.

ERRATA's of Wounds in General.

PAge 106. line 5. for pervan. read peruvian. p. 36. l. 21. r. dip a pledgis: p. 55. l. 12. r. dabled about: p. 82.l.12. for either r.other: p. 126.l.15.r. until: p. 43.l.4. r. indisposed.

ERRAT A's of Gun-shot-wounds.

Page 59. line 8. read Vreters: l. 23. for loss r. less: p.61. l. 24. for digestium r. digest cum: p. 106. l. 8. for sub. Zij. r. Zij. p. 14. l. 2. for the Terebinth. r. Ol. Terebinth. p. 16. l. 31. for and laid r. lay: p. 20.1.19. for their r. these wounds.

There are other Literal faults occasioned by the hasty Printing this Treatise.

Imprimatur,

Guliel. Wigan.

Ap. 4. 1672.

THE END.

