Royal Socicty, by the Hands of Mr. Eaft Surgeon, a Member of our Body.

An Account of Mr Mark Catesby's Ef: fay toverards the Natural Hifory of Carolina and the BahaIflands, by Dr Mortimer, R.S. Sect. No. 415. P. 425.
5. Our Author propofes in this Work to give the Figures of the Birds, Beafts, Fifhes, Serpents, Infects, and Plants, the greateft Parts whereof have never been defcribed by any Author, or no good Figures given of them. He gives the Defeription of them in Enghifs and French, with Obfervations of the Air, Soil, and Water; and an Account of the Agriculture, Grain, Pulfe, Roots, and other Productions of the Country, with a Map of the fame. He was near four Years in thefe Parts, where he defigned every thing from Nature in their proper Colours: In order to make the coloured Prints almoft equal to his Original Paintings, he engraves and colours them with his own Hand.

## C H A P. II.

## The Structure, External Parts, and Common Tegoments, of the Body.

Of the Callus I. N Sept. 17 19, feeling an acute Pain in one of my Feet, at the Joint, of the Hands and Feet, by M. Leeuwen. hoek. Tranfased by John Chamberlayne Efq; No. 373. ఖ. 156. between the Foot and the little Toe, which I imagined to proceed from the more than ufual Thicknefs of the Callus, or hard Skin, upon that part; I caufed my Servant, partly with his Nails, and partly with his Penknife, to take it off and let it fall upon a blue Paper. It was compofed of little fcaly Shivers lying upon one another, and the whole Piece was as large as a fmall Nail of a Man's Hand. I viewed the faid Shivers through a Microfcope, but could not fatisfy myfelf, becaufe they lay fo irregularly on each other.

I took a little Bit of it, laid it on a clean Glafs-Plate, fteeped it in pure Rain- Water, and gently dividing it with a Piece of a Quill, I was amazed to fee into what a vaft Number of Particles it feparated, and that with as much Readinefs, as if they had never been joined.

Of thefe Particles, many were of the Figure of a Weaver's Shuttle, being broad in the middle and pointed at each End, with a Line in the middle, like thofe upon the uppermoft or outfide Skin of Fruits, or of our Bodies, but generally irregular; they were very thick, in proportion to their Bignefs. I took two or three of them and laid them on a clean Glafs, and put to them a Drop of Water, as large as a coarfe Grain of Sand, and divided the fame as well as I was able; and viewing the divided Particles through a Microfcope, I was aftonifhed at the prodigious number of exceeding fmall Particles that oc-
curred to my Sight, and which were of the fame Figure as before ${ }^{-}$ faid.

I took fome of the thickeft Pieces of the horny Skin, but not half fo thick as the Back of a fmall Knife, and nit them into as thin Slices as I could, and placed them upon a clean Glafs, with the Defign of difcovering the exceeding thin Particles lying upon one another; and having moiftened them, they fpread them felves out further, and when became dry again, they feparated into feveral Parts; each of which were compofed of many thinner Particles lying on each ocher. In order to have a clearer Notion of the Contexture of thofe Particles, by which the Skin of the Hands and Feet of thofe who are inured to hard Labour, or walk much, increafes in Thicknefs, and is furrounded, I caufed a fmall Portion of the aforefaid feparated Particles to be Fig. 6 . drawn, though they were not all fo exact and compleat, as they are reprefented; and according to my beft Obfervation, they hád all been feparate Pieces, and none of them united to one another.

Again I placed little Pieces of this hard Skin, which I had cut off at the thickeft part of it, before a Microfcope, and moiftened them with fair Rain-Water when I put them upon the Glafs-plate, by which Means they acquired a great Extent; and being dried, they fhrunk again, and thereby appeared in feveral long Particles, and each of them feemed to confift of other long Particles, as they are reprefented in Fiy. 62. So that AB or CD was the Thicknefs of that piece of Fig. 62. thick Skin, which I had cut through.
From this Obfervation, I confidered with myfelf, whether one of thefe long ftripe-like Particles, fuch as appeared to the Eye at AC or B D, might not be the Thicknefs which the horny Skin had acquired in the Space of a Month; and whether the very thin Particles, which appeared in fuch a little Stripe, were not the Accretion which the hard Skin received in one Day. This laft mentioned little Piece was not fo large to the naked Eye as a common Grain of Sand. And whereas I placed before a Microfcope another very fmall piece of Skin, that was fomething thinner than the former, I could perceive the exceeding thin Particles reprefented by Fig. 63. which were the Fig. 63 . Strata, or Beds, in which the horny Particles of the Skin lay, and fo compofed the Thicknefs thereof.
For my further Satisfaction, I fent for a Mafon's Servant, who was a laborious Workman, and cut out of his Hand, where it was moft thick and brawny, two Bits of the hard Skin ; and then I nit it into fimall Slices, and obferved eafily enough the thin Particles lying upon each other, but could not feparate the little Scales, of which each little Stratum of the hard Skin confifted, becaufe, as I fancied, through the hard working of the Man, the Particles of the faid Skin were fo preffed upon one another, and fo clofely joined, that they could be no longer feparated.

As the Hands of the Mafons or Bricklayers are often covered with the fharp Salts of the Chalk or Lime, we might prevent the Separation of the very fmall Parts of the hard Skin; I fent for a MafterCarpenter, who was likewife a diligent Workman, and viewing his Hands, in order to pare off fome of the Brawn thereof, I found chem as foft in the Palms, as if he had never been ufed to Labour; upon which I faid to him, you wafh your Hands very often, I believe; to which he replied, ten times a Day at leaft, for I hate to fee them foul. Then I fent for a Ploughman, who was moftly a Tiller of CornLand; this Perfon's Hands was very hard; I cut two pieces of horny Skin out of them, which after I had done, I cue them in little Bits, but they were fo hard, that a fharp Knife, got feveral Notches in doing it. And I obferved that the uppermoft part of the Skin was full of little Rents, and all the Strata were preffed fo clofely together, that I could not make any Difcoveries therein, fave only that the little Bedslay on each other, and that the Thicknefs of the Skin confifted thereof.

I put the two pieces of hard Skin into warm Water, in order to foften them, and then to feparate the Parts from each ocher, but could not do it, becaufe they were fo ftrongly joined together.

I have feveral times obferved, in wafhing my Hands, that when I rubbed the Palms of my Hands ftrongly againft one another, with very little Water between them, fome Particles would be rubbed off from the Skin, and continue between my Hands.

For my farther Satisfaction in this Matter, I put one of my Fingers into fair Rain-Water, and with that wanhed the part of my Thumb which is joined to my Hand; after which I rubbed both Finger and Thumb hard againft each other, then I gently fcraped with a Penknife, the Matter, which I had loofened from the Skin by moiftening and rubbing it; and taking off a little of that which fluck to the Knife, I put it upon a clean Glafs-plate, and fetting it before a Microfcope, I faw with Aftonifhment the great number of Particles of Skin, which lay feattered upon the Glafs, but were more irregular than thofe, which I feparated from the brawny Skin of my Foot, and which were not very clofely preffed togecher, becaufe I do not walk much.

After this I moitened the back of my Hands, and then rubbed them ten or twelve times againft each other, and having fo done, I fcraped off, with a Pen-knife very gently, fome of the Matter I had loofened by rubbing; and placing it on a clean Glafs, I viewed it with a Microfcope, after having feparated the Particles of the faid Matter from each other with a little Water, and difcovered abundance of little Scales which come off our Hands.

As the Skin of my Hand is in no part thicker than that, which is upon my Thumb next to the Nail, having in my advanced Age, chiefly ufed my Thumbs in the Examination of Microfcopical Objects, I made
one of my Thumbs a little moift, and rubbed the other againft it, and placed the rubbed off Matter before a Microfcope, through which I obferved fuch a prodigious number of Particles, like thole reprefented by Fig. 6I but all irregular, that no Man can conceive it without having feen it.

Now as we find that fuch a Quantity of Particles is feparated from the Hands, and is daily renewed in a well conftituted Body; we muft conclude, that we eat feveral of the faid rubbed off Particles in our Bread, and that they turn to Nourifhment; and I am of Opinion, that there is hardly any Food prepared for us, efpecially fuch as paffes pretty much through the Hands, but that fome of the rubbed off Particles are mixed therewith, efpecially when they knead Dough from Meal or Flower; and ftill more, when the Bakers knead with their Feet, as in making of Rye-Bread.

Since thefe Obfervations concerning rubbing of my Hands, I take more notice thereof, when I wafh and dry them, than formerly; and 1 ftand amazed at the numerous Particles that daily feparate themfelves from my Hands, and grow on them again; and at the particular Provifion, that is made for producing thefe Particles, in the Palms of our Hands and Bottom of our Feet, whereas we do not by far meet with fuch a Quantity of Particles conftantly produced in other Parts of our Body; for we obferve thofe, who work much with the back of their Hands, we fhall not meet with any of that hard Skin we have been feeaking of, but only a kind of Tumor, or rifing, as the Dry-fheerers, of thofe who drefs Cloth, have upon their Jeft Hands.

The Manner of the Production of thefe fmall Particles will be a Myftery to us, though our Hands and Feet muft be fortified with fuch a Matter, to enable them to fupport all that Force, and Preffure, which they are obliged to undergo.
II. A Country Labourer, living not far from Eufon-Hall in Suffolk, fhewed a Boy (his Son) about fourteen Years of Age, having a cuticular Diftemper, of a different Kind from any hitherto mentioned in the Hiftories of Difeafes.

His Skin (if it might be fo called) feemed rather like a dufky co- 1731 , contaisloured thick Cafe, exactly fitting every part of his Body, made of a ing an uncomrugged Bark, or Hide, with Brifles infome Places, which Cafe mon Cafe of a covering the whole excepting the Face, the Palms of the Hands, and Skin, by John the Soles of the Feet, caufed an Appearance as if thofe alone were Machin, Serr. naked, and the reft cloathed. It did not bleed when cut or fcarified, R. S. $\mathcal{Y}^{\circ}$ Pref. being callous and infenfible. It was faid he fheds it once every Year, about Autumn, at which Time it ufually grows to the Thicknefs of three Quarters of an Inch, and then is thrult off by a new Skin which is coming up underneath.

It was not eafy to think of any fort of Skin, or natural Integument, that exactly refembled it. Some compared it to the Bark of a

V OL. VII. Part iii.
L
Tree:

Tree; others thought it looked like Seal-Skin ; others like the Hide of the Elephant, or the Skin about the Legs of the Rhinoceros ; and fome took it to be like a great Wart, or Number of Warts unicing and overfpreading the whole Body. The briftly Parts, which were chiefly about the Belly and Flanks, looked and rufled like the Prifles, or Quills, of a Hedge-Hog, fhorn off within an Inch of the Skin.

His Face was well featured, and of a good Complexion, if not rather too ruddy; and the Palms of his Hands were not harder, or in worfe Condition than is ufual for Workmen or Labourers. His Size was proper for his Age; his Body and Limbs Atrait, and, excepting as to this Deformity, well fhapen.

This rugged Covering gave him no Pain or Uneafinefs, unlefs that fometimes after hard Work, it was apt to ftart and cleave, and caufe a Bleeding. And notwichftanding the unufual Difpofition of his Humours to form fo ftrange an Integument, his natural Excretions were faid to be in the ordinary Courfe and Manner, without any thing remarkable attending them.

The Father knew of no Accident to account for this Diftempered Habit. But faid, that his Skin was clear at his Birth as in other Children, and fo continued for about feven or eight Weeks, after which, without his being fick, it began to turn yellow, as if he had had the Jaundice; from which by degrees it changed black, and in a little time afterwards thickened, and grew into that State it appeared in at prefent. That he has been in Health from his Birth, and hath no Sicknefs at the Seafon when he fheds it. He further faid, that his Mother had received no Fright, to his Knowledge, whilf fhe was with Child; and hath born him many Children, none of which have ever had this, or any other unufual Diftemper or Deformity.

Fig. 64. Reprefents the Back of the Boy's Hand. Fig. 65. Reprejents a Portion of this extraordinary Epidermis, wobich was probably a Prolongation of the Nervous Papillæ, grown to about the Size of cammon Trwine Packtbrcad; and thefe fianding as clofe togetber as the Briftes in a Brufto, feemed, like them, to be all foorn off even, and of the fame Length, viz. about balf an Inch above the Skin. Fig. 66. Sbeces fome of thefe Briflis, or Stumps, magnified; whbere it is vifible that fonme of them are flat at Top, otbers concave; fome pointed like a Cone, and otbers very irregular.

Extraz of feveral Letters and Certifis cates fent the Kings, conconiing avoty par
III. Yememias Rudolob von Waltbaufen, a Captain of the Garrifon at Danneberg, near Lunebourg, was born $07.24,1680$, with a very fingular Mole upon his right Arm, Shoulder, and Hind part of his Side, not unlike the Branch of a Vine, with it's Leaves and Grapes. It hath been affirmed and attefted, boch by the deceafed himfelf,

## Of a Navus Maternus, or Mole.

himfelf, and feveral of his Relations and Friends, that his Mother, coular Navis when big with Child, had an earneft Defire for Grapes, and im- Mternas. or patient to ftay, till they were full ripe, went down into the Garden to pull off fome of thofe unripe; whereupon it happened, that a whole Branch, with it's Leaves and Grapes, fuddenly fell down up- F. . on her right Arm, which much frightened her. Some Time after 382 p p 347. the was brought to Bed, and the Child was obferved to have feveral reddifh or bluifh Spots, beginning from behind his Shoulder, and from thence running over the fame, down the right Arm to the Fingers. The Captain's whole right Side was bigger than the left by an Inch and upwards, and fo continued to his Death. The Veins of the right Arm were much raifed, lying almont immediately under the Cuticula, which made them very confpicuous, they were, befides, very much diftended, chiefly between the Elbow and Hand, where they were almoft as big as a Man's Thumb. On the Infide of the fore Finger the Vein was extended into a fmall Tumour, of a reddifh, or purple blue, Colour, about the bignefs of a Nutmeg, corrugated with fome tenticular Protuberances, which made it in fome meafure refemble a Grape. The tike Tumours, but not fo big, were obferved in feveral other Parts of the Arm, in the Spring Time; and, as they thought, when the Sap began to enter the Vines, as alfo when the Vines flowered, and, in Autumm, when the Wine was fermenting, the Captain was taken ill, with violent and itching Pains, in the affected Arm, for fome Days. The whole right Side then fwelled more than ufual, and the Veins and Tumours above mentioned were fo diftended with Blood, that at laft, a ferous Matter was forced out of the Pores of the faid Tumours, which as it gave the Patient fome Relief, fo he promoted it, by fcraping the Tumours with the Edge of a Penknife. If the Captain held up his affected Arm, the Running of the Blood backwards in the diftended Veins was very vifible. If he held his Arm down again, the Blood returned with fome Noife, and fenfibly filled the Veffels, which by the preceeding Action had been emptied. For this Reafon, the Captain, when he was in Bed, was obliged to lay his Arm upwards. In February laft, the Captain was again taken ill with the violent Pains, and a ftrong fenfible pufhing of the Blood into the affected Arm ; for both which, they being not only moce violent, but continuing longer than ufual, he was advifed to be let Blood on his left Arm; as this did not immediately relieve him, they applied, at his Defire, externally, Epitbernala of Plants boiled in Wine; this eafed his Pains, and made him fomewhat more qutet, fo that he could walk about the Moufe, but he neverthelefs continued reftlefs for fome Days, and was, on Suturday the ryth of Fibruary, S. N. early in the Morning, feized with a violent Op. prefion of his Breaft, which in a few Minutes made an End of his Life. The Surgeon, then prefent, did not bleed him, but gave
him only fome fpoonfuls of a ftrong Cordial Mixture, which he happened to have about him, and of which the Patient, with much Difficulty, could fwallow but a finall Part. He was, when he died, 44 Years, 3 Months, and 24 Days old; he was otherways a Alrong robuft Man, much given to Fatigue, and difcharged with great Bravery all the Duties of a good Soldier, as appeared by his Conduct throughout the laft War.
IV. In § 8. He treats of the Epidermis, or Scarf-Skin, with a good Method of feparating it for publick Demonftrations. He takes

Ans Account of a Book, enitituled
Adverfariosum Anatomico-Medico-Chirurgicorum Decas tertia. Suatore Frederico Ruyich, M. D. Anatom. Eg Bolan. Prof. Amftel. R. S. S. No. 379. p. 428. off a Piece of the whole Skin, and nails it upon a Board with the Outfide uppermoft, and then puts it into boiling Water, which raifes it fo, that with a blunt Knife it is eafily feparable, which is a much better Way, than that of burning and bliftering. He fays, the different Colours of the Skin are owing to the Corpus Rericulare, which in Blackmoors is perfectly black, in Moors of a tawny Colour, in white People perfectly white. The Epidermis is ever found abfolutely void of Blood-Veffels: Upon which occafion he charges Mr St Andre, with fally afferting he has Preparations which fhew thefe Veffels, and has pretended to fhow them to fome of his Countrymen the Dutch. He adds, that he gueffes the Occafion of his Miftake to be thus: The Skin of new born Infants, in fome certain Places, if it be carefully feparated from all Fat, is fo fine and thin, that it becomes like the Epidermis in Adults. This no doubt is extremely full of Veffels, and is what he has imagined to impofe upon Mr St Andre.

## C H A P. III.

## The $H E A D$.

Obfervations on the Brains of three Perfons, zubo died of the Epilepfy, by $D r$ Wallerus Curienfis Rhatus, No. 399. p. 315.
I. TIR 35. Annorum, temperamenti \& habitûs gracilis, abhinc duobus annis correptus dolore gravativo capitis in parte anteriore verfûs frontem \& à D. Profefforibus multa ac multa remedia accepit, fed fruftra: tranfaet is duobus annis Hæmorhagia narium Larga contigit, quæ tamen fpontè ceffavit. Poft Hæmorhagiam amifit fenfum olfactorium, \& pofteà correptus fuit per duos annos Paroxy fmis Epilepticis, frpiûs ingruentibus, denique mortuus eft.

Secto cranio, vidimus Cerebrum in parte anteriore verfus Duram Matrem circà Regionem Criffa Galli, in parte dextrâ durum \&r callofum, \& arctiffimè cum Meninge durâ connexum : in parte Cerebri anteriore
teriore verfûs finiftram partem, inventa fuit extravafatæ materix fanguineæ aliqua quantitas, reliqua naturalia.

Anafarcấ laborans Mulier 60 annorum vehementifimis ifque fæpê repetitis acerbifimis Infultibus correpta obiit. Secto cranio, invenimus intrà Piam Meningem \& Cerebrum, atque in anterioribus Cerebri ventriculis magnam fatis extravafatæ lympha quantitatem, ut eâ ventriculi fermè turgidi fuerint. In Plexibus Cboroideis confpectui fefe tradidere plurima corpufcula albicantia, pellucida, ferum aquofum in fe continentia, variæ magnitudinis; maxima ad magnitudinem feminis Cannabini majoris accedebant,

Diffecto Cranio Vetulæ alicujus quæ per multorum annorum tractum. Epilepfia valdè obrioxia erat, vidimus intra Piam Matrem \& Cerebrum, mediocrem Seri extravafati copiam, in anterioribus autem Cerebri ventriculis tanta talis Seri quantitas fuit, ut crepaturam illorum quafi minabatur. Plexus Cboroidous inftar veri racemi apparebat uterque; veficula inibi plurimæ, rotundx, pellucidæ, \& variæ magnitudinis nobis vifui fefe obrulêre, \& inftar elegantiffimarum apparabant Perlarum.
II. I. On the 13th of Fuly in the Year 1720, he couched a Ger-An Acount of man Soldier of Cataracts in both his Eyes, who immediately after a Letter from the Operation recovered the Sight of both, and continued to fee till his Death, which happened of an acute Illnefs, on the 6th of April this prefent Year. Upon this, Signor Benevoli took the Eyes out of their Orbits, in order to examine whether the Cataracts confifted of a membranous Pellicle, as fome Writers maintain ; or, as others pretend, of a preternatural Opacity in the Cryftalline Humour. Upon a careful and very exact Examination of all the Contents of it, he rence 1722. could not find any fuch thing as a Pellicele within it, but difcovered ${ }^{\text {No. } 0.393 . \mathrm{p} .194}$ a fmall yellowifh Body at the bottom of the Bulb of the Eye, of a lenticular Shape, without Adhefion to any of the other Parts of the Eye, which, upon taking it out, appeared to be the Cryftalline Humour grown opake, and fomething lefs than it's natural Size, having two or three fmall Dents in it's Circumference, which it had received from the Needle during the Operation of couching.

The next Day he examined the right Eye in the fame manner, in the Prefence of feveral eminent Phylicians and Surgeons, and other curious Perfons, whom he had invited to the Demonftration, and found in it the Cryftalline grown opake and depreffed in the fame manner as the former, to the bottom of the Eye, ftill carrying the Marks of the Needle evidently upon it, but found no Pellicle within the Eye, notwithfanding the moft diligent Search he could make for it. He farther relates, that having formerly made Experiments upon the Eyes of dead Subjects; he had introduced the Needle into the Eye in the fame Place, and in the fame Manner, as is commonly practifed in the Operation of couching, and having afterwards diffected the fame Eye,, he had always found, that the Needle had paffed
into the Eyc on the back fide of the Cryftalline Humour, fo that it had been impofible to bring the Needle forward from thence into that Part of the aqueous Humour, which is feated between the Uvea and the Cryftalline Humour, in order to deprefs a Pellicle feated there, according to the common Opinion, unlefs he would have pafled his Needle through the Body of the Cryftalline.

He likewife obferves, that the aforefaid Space, between the Uuen and the Cryftalline Humour, is fovery narrow, that though he finds it not impoffible to introduce a Needle into that Space, yet there is by no means room enough to turn the Needle up and down in all Directions, with that Freedom, that is ufed in couching Cataracts, without wounding either the Uvea, or the Cryftalline.

Laftly, He obferves, that in his Pfactice of couching Cataracts for many Years, having generally couched about twelve or fourteen in a Year, he had always found, that he worked upon a hard and refifting Subftance, which being tenderly touched by the Needle, would vibrate
 againft theNeedle with a fenfible Impetus, which by no means agrees with the common Notion of the Cataract's confifting in a Pellicle or membranous Subflance.

Of the Difection of an Eye
zoith a Catazoitb a Cata-
ract. By Mr Johin Ranby, Surgeon. No. 381 , p. 36 .
2. Sept. 21, 1723, I was confulted by one WTlliam Sollars, aged Fifty, who complained of a Decay in his Sight; upon examining his Eyes, I found two Cataracts, that in his right Eye almolt ripe, the other juft forming. There being no other obvious Method of relieving him, I propofed the Operation, but firt advifed him to confult fome others of the Profeffion, and accordingly he advifed with Mr Tamner, who upon viewing his Eyes, declared them both Cataracts, but neither of them as yet was fit for the Operation. In the mean time the poor Man fell ill of a Fever, and died the 2d of March. I procured the right Eye, in which the Cataract was moft confirmed, in order to make an exact Diffection of it: In examining it, I found the Aqueous and Vitreous Humours in their natural State, but the Cryftalline was opake and of a foul Pearl Colour, and more folid Subftance than in it's natural State. The generally received Opinion, that a Cataract is a Film growing behind, or fometimes before the Pupil, made us examine both Chambers of the Aqueous Humour, with the utmon Exactnefs. but all to no Purpofe, for the Aqueous Humour had it's natural Tranfparency, nor could we oblerve any thing preternatural either on the Iris or Uvea, except 100 great a Contraction of the Papil. This very much ftrengthens the Opinion of Maitrejan, Briffe, Ifeifer, and Valfalve, who have feverally afferted, that a Cataract is only an Opacity of the Cryftalline IIunour, and that it naturally proceeds from a ferous Acid, which fo far aftringes and corrodes it's Subtance as to defroy it's Tranfparency. This, Maitrejan confirms by an Experiment of emerging the Cryfalline Ifumour in a Compoficion of three Parts Water and one of Aquaforits, by which be tells us is may
be rendered hard and opake; but in this Point I cannot help fiding with the learned Dr Pitcairn, who has fufficiently proved, that there is no fuch ferous Acidity in an animal Body. To me nothing feems more eafy than to deduce this Opzcity of the Cryitalline Humour from an Inflammation in the Blood, or an increaled Momentum in the Fluids, wich which it is fupplied: For in that Cafe groffer Particles, inconfiftent with the Tranfparency, may be impelled into the Lymphatic Veffels of which it is compofed; and that there is an Inflammation is fufficiently demonftrated from hence ; firft, the Patient feels often a pungent Pain in the Eye, which as it is generally the forerunner of a Cataract, fo it certainly indicates an Intlammation of the Part. Secondly, Thofe Macula, which appear as it were fwimming in the Air, plainly prove that there are opake Particles already entered the Lymphatic Veffels, which compofe the Vitreous Humour.

Thirdly, the Iris, whofe Colour arifes from the Blood Veffels, as it changes from a lighter to a darker Colour, fhews the Violence of the Inflammation, and is therefore efteemed a Symptom of the worft Confequence.
3. Fobannes Wright, fenex milefque emeritus, fuffufione feu Cataractâ utriufque oculi laborans, vifu tandem omnino privatus eft. Cu-Catarafts difre fe commific Domini Cayzood, Oculiftæ Dublinicenfis, qui acu punc- fefted. Commutoriâ oculum utrumque perforavit ad Cryftallinum è fede fuâ depri- $n$ mendum. Operatione verò in oculo dextro minus feliciter fuccedente, nicated by Samuel Molyfiniftri ufum folummodo recuperavic. Paucis menfibus poit operatio- Feux, R.S. S. No, nem peractam, in hofpitium regale militum emeritorum prope Dubli- 33q p. 149 nium receptus eft, ubi per annos octo vel novem manfit, $\& x$, per totum intud tempus, vifus aciem fatis acutam habuit, adeo per urbem folus ambularet, \& fodalium facies diftinguere poffit. Mortuus eft tandem $5^{\circ}$ die Aprilis 1722 , fuffocatus per cafei morfulum hærentem in gula, quam adeo aretam habrit, ut eundem mortis aditum paucis abhinc annis bis ægre evaferit: Oculi ejus, e cranio exempti, miffi funt per Nófocomii Chirurgum ad Tboman Molyncux Medicinæ Doctorem, Collegii Med. Regalis in Ilibernia Sucium, \& in Academia Dubliniemfi Medicinæ Profefforem. In ædibus ejus cultro Anatomico aperii funt, per Oculiftam fupradictum, meque, ut intereffem operationi, accerfere dignatus eft. In oculo finiftro (cujus aciem recuperatam fuiffe fupra notavimus) fublatầ corneâ cum portione tunicx felerotice, ne vel minimum invenimus radimentum pelliculæ in aqueo humore fluctuantis, aut limbo iridis adnatæ, ficut fe oblervaffe fcribit Wolboufius. Quod vero multo magis mirandum eft, nullæ prorfus reliquiæ invente funt humoris Cryftallini, cujus opacitati morbum adferibit Doctor Brifeus. Humor Vitreus, quoad fitum \& confiftentiam, nihil preternaturale oculis noftris exhibuit ; tunica choroidea \& retina fufci coloris erant tam intus quam extra. In ocuio dextro eadem omnia oblervavimus; nullum nempe pellicule aut Cryltallini rudimen-

## Of the Subfance of a Cataract.

tum occurrebat. Tunica cornea rugofa crat \& flaccida, quod aqueus humor per puncturam extravafatus, numquam renovatus fit: adeoque iftius oculi ufum amific penitus. Cryetallini vero defectum quod attinet, res eft prorfus inaudita, neque ab ullo Anatomico, quantum fcio, defuiffe obfervatus eft, vel leviter fufpectus. Militem hunc Cryftallinum habuiffe in utroque oculo ante operationem, nullus dubito; cum vero acu a fede fua decrufus eft, ligamentis ciliaribus vafifque, quibus nutrimentum haufit, penitus difruptis, eum fenfim contabuifie credo, tandemque in auras diffipatum fuiffe. Summopere vellem hanc rem experimento fæpius iterato confirmatam effe: fufpicor enim idem femper evenire fato tempore poft depreffum Cryftallinum.

Hoc certo conftat ex hac hiftoria, hominem nempe abfque Cryftallino videre poffe, contra opinionem Wolboufii, eâque amplius confirmatur fententia D. Doctoris Briffei de Cataracta.
Of the Sub- 4. Vetula circiter 50 annorum, dum viveret, fiftebat Cataractams fiance of a Ca- veram in oculo finiftro, Coloris Perlacei, magnitudine mediocri, ità taratt, by Dr WalterusCurienfis Rhaztus. No 399 pag. 317. tamen ut aliquantifper plufquàm dimidiam, eamque mediam Pupilla partem occupabat, vidi manifeftè eam Cataractam retrò Uveam, \& in 2dâ oculi Camerâ effe fufpicabar. Interrogatus à Santorino, in præfentiâ decem plùs minùs Medicorum, quid judicium meum fit de hâc Cataractâ, an fit Cuticula vel Cryfallini vitium? refpondi, me potiùs pro Cuticula habere quam pro Cryjtallini vitio, attamen id abfolutè \& indubiè affirmare nolle, quoniam fignum Pathognomonicum non datur. Refpondenti mihi ridere cœpit, quod audeam aliquid de Cuticulâ five membranulâ ftatuere, perfuafus enim eft ipfe, Heiferi Syftema certum effe $\mathcal{\Xi}^{c}$. Mortuâ diffectâ, Cryflallinus bumor erat pellucidus quibufvis inftitutis experimentis, nec ullâ maculâaut minima obfufcatione imbutus; erat equidem per totam ipfius molem ubique $\&$ æ æqualiter leviffimè, citrino Colore perfufus, vix namque aliquid hujus Coloris apparebat, in vivis adhuc exiftente Vetulâ. Cuticula eadem Libera in nominatâ Camerâ exiftebat, \&e non nifi duâbus fubtiliffimis fibrillis Uvece adhærebat: Pupilla naturali quoque aliquantulum major reperta.
ApartialSight III. Fæmina mediæ ætatis, anno fuperiori, a retro-pulfa, par balof Objects, by Abraham Vater, Prof. Med Wittemb. F. R. S. No 38+. p. 147 neum, \& fubfecutam refrigerationem, Coryza, unica nocte incidit in cataractam nigram, feu guttam ferenam: nam mane e fomno experrecta, ufu oculorum orbatam fe fentit, nullo extrinfecus in oculis vitio apparente. Poft ufurpata vero medicamenta varia laxantia \& fanguinem purificantia, interpofitis fimul veficatoriis, una cum decenti $\mathrm{Di}_{-}$ æta, vifus fenfim redit ita tamen ut notatu dignæ vifus viciffitudines, ac fingularia in eo phænomena occurrerent. Primum enim omnes ipfi obvios homines, capite quafi truncatos vidit, folo corpore abfque capite in oculos incurrente. Succeffu temporis, ceffante hac obfervatione, objecta quidem tota, fed quafi per nebulam aut per rete vidit, \& hoc ceffante, maculas tamen \& flocculos oculis obverfari percepit. Tandem affectus hic in vifum partialem, quo hoc ipfo tempore adhuc laborat, degeneravit. Nunc enim, utroque oculo aperto, \& verfus ob-
jectum directo, illud quidem totum confpicit: alterutro vero corum claufo, pars objecti, macula aut nebula rotunda tefta, videtur, que macula tanto major apparet, quo longius oculus ab objecto removetur. Prout autem oculus five dexter, five finifter, occluditur, femper quidem media objectorum pars, at diverfa, obfcuratur. Ita fi, exempli gratia, has tres voces in charta feriptas (Ego fum cocca) intueatur oculo finiftro tantum, pupilla verfus mediam vocem Sum directa, hæc in vifum non incurrit, fed tantum dux voces Ego - cera confpiciuntur. Pupilla vero verfus vocem Ego directa, hæc evanefcit, ita ut tantumSum caca videat. Quod fi e contrario oculum finiftrum claudat, \& oculum dextro infpiciat objectum, tunc medium quidem pariter obfcuratur, ita tamen, ut tancum pars quarta vifum fugiat, tribus partibus clare confpectis. Ita fi , exempli gratia, oculo huic objiciat has quatuor voces, in charta fcriptas, (Ego opto effe fana) tunc pupilla ad medium directa, omnes voces videt, prater vocem opto, qua macula itidem rotunda obfcuratur, \& videt ægra ita tantum, Egoeffe fana. Quoniam ergo ex hoc cafu apparet, maculam illam rotundam, qua pars objecti obfcuratur, effe fixam quidem, fed pro varia pupilla directione locum mutare, dubium videtur, utrum vitium in humore cryflallino, an in tunica retina hæreat? In tunica quidem cornea nulla obfcuritas aut macula patet. Majoris vero momenti, ac explicatu difficilius videtur antecedens phœnomenon, ubi ægra totum hominis corpus, excepto tantum capite, confpexit.
IV. Though we fay of the Gentleman that he was blind, as we do of all People who have ripe Cataracts, yet they are never fo blind from that Caufe, but that they can difcern Day from Night; and for the moft Part in a ftrong Light, diftinguifh Black, White, and Scarlet; but they cannot perceive the Shape of any thing; for the Light by which thefe Perceptions are made, being let in obliquely thro' the aque. ous Humour, or the anterior Surface of the Crytalline (by which the Rays cannot be brought into a Focus upon the Retina) they can difcern in no other Manner, than a found Eye can thro' a Glafs of broken Jelly, where a great Variety of Surfaces fo differently fefract the Light, that the feveral diftinct Pencils of Rays cannot be collected by the Eye into their proper Foci; wherefore the Shape of an Object in fuch a Care, cannot be at all difcerned, though the Colour may: And thus it was with this young Gentleman, who though he knew thefe Colours afunder in a good Light; yet when he faw them after

Obfrrvations mace by a youry Genstlemar, who wous bort blind, or lop bis Sigbt fo ervis, that be bad mo Remendrance of cur aoving feen, and was troem 13 and 14 Jars of ${ }^{\text {Age }}$, hy Mr W. Cheffilden, F. R. S. No. 402 p. 447. he was couched, the faint Ideas he had of them before were not fufficient for him to know them by afterwards; and therefore he did not think them the fame, which he had before known by thofe Names. Now Scarlet he thought the moft beautiful of all Colours, and of others the moft gay were the moft pleafing, whereas the firt Time he faw Black, it gave him great Uneafinefs, yet after a little Time he was reconciled to it; but fome Months after, feeing by Accident a Negroe Woman, he was ftruck with great Horror at the Sight.
V OL. VII, Part iii.

When he firft faw, he was fo far from making any Judgment about Diftances, that he thought all Objects whatever touched his Eyes, (as he expreffed it) as what he felt, did his Skin ; and thought no Objects to agreeable as thofe which were fmooth and regular, though he could form no Judgment of their Shape, or guefs what it was in any Object that was pleafing to him: He knew not the Shape of any Thing, nor any one Thing from another, however different in Shape, or Magnitude; but upon being told what Things were, whofe Form he before knew from feeling, he would carefully obferve, that he might know them again; but having too many Objects to learn at once, he forgot many of them; and (as he faid) at firft he learned to know, and again forgot a thoufand Things in a Day. One Particular only (though it may appear trilling) I will relase; having often forgot which was the Cat, and which the Dog, he was afhamed to ask; but catching the Cat (which he knew by feeling) he was obferved to look at her ftedfaftly, and then fetting her down, faid, So Pufs! I fhall know you another Time. He was very much furprized, that thofe Things which he had liked beft, did not appear moft agreeable to his Eyes, expecting thofe Perfons would appear moft beautiful that he loved moft, and fuch Things to be moft agreeable to his Sight that were fo to his Tafte. We thought he foon knew what Pifiures reprefented, which were fhewed to him, but we found afterwards we were miftaken; for about two Months after he was couched, he difcovered at once, they reprefented folid Bodies; when to that Time he confidered them only as Party-coloured Planes, or Surfaces diverfified with variety of Paint; but even then he was no lefs furprized, expecting the Pictures would feel like the Things they reprefented, and was amazed when he found thofe Parts, which by their Light and Shadow appeared now round and uneven, felt only flat like the reft ; and asked which was the lying Senfe, Feeling or Seeing?

Being fhewn his Father's Picture in a Locket at his Mother's Watch, and told what it was, he acknowledged a Likenefs, but was vaftly furprized; asking, how it could be, that a large Face could be expreffed in fo little room, faying, it fhould have feemed as impofible to him, as to put a Bufhel of any thing into a Pint.

At firft he could bear but very little Sight, and the Things he faw, he thought extreamly large, but upon feeing Things larger, thofe firt feen he conceived lefs, never being able to imagine any Lines beyond the Bounds he faw; the Room he was in he faid, he knew to be but part of the Houfe, yet he could not conceive that the whole Houfe could look bigger. Before he was couched, he expected little Advantage from Seeing, worth undergoing an Operation for, except reading and writing; for he faid, He thought he could have no more Pleafure in walking abroad than he had in the Garden, which he could do very fafely and readily. And even Blindnefs he obferved, had
this Advantage, that he could go any where in the Dark, much better than thofe who can fee; and afrer he had feen, he did not foon lofe this Quality, nor defire a Light to go about the Houfe in the Night. He faid, every new Object was a new Delight, and the Pleafure was fo great, that he wanted Ways to exprefs it ; but his Gratitude to his Operator he could not conceal, never feeing him for fome Time without Tears of Joy in his Eyes, and other Marks of Affection: And if he did not happen to come at any Time when he was expected, he would be fo grieved, that he could not forbear crying at his Difappointment. A Year after firft feeing, being carried upon Epfom Downs, and obferving a large Profpect, he was exceedingly delighted with it, and called it a new Kind of reeing. And now being lately couched of his other Eye, he fays, that Objects at firft appeared large to this Eye, but not fo large as they did at firft to the other; and looking upon the fame Object with both Eyes, he thought it looked about twice as large as with the firft couched Eye only, but not double, that we can any Ways difcover.
V. Fig. 67 and 68, reprefent the Figures of two Eyes, on which a new Operation was performed, by making an Incifion through the Iris, which had contracted itfelf in both Cafes fo clofe, as to leave no Pupil open for the Admiffion of Light.

The Perforation in the Eye, Fig. 67, was made a little above the Pupil, the clofing of which enfued upon the putting down a Cataract, which not knowing how low it might be lodged, I made the Incifion a little higher than the Middle, left any Part of it fhould lie in the Way.

The Eye, Fig. 68, was one I couched not long before, where the Patient had been blind but a few Years. At firt he thought every Object further from him than it was; but he foon learned to judge the true Diffance, the Caufe of which I fhall endeavour to explain by Fig. 69, in which let the Circle A, B, C, reprefent the Eye, A the Fig. 69. the Place where an Image through the natural Pupil B was reprefented from the Place E; now the artificial Pupil being at the Place C , the Object at $D$ is now painted at the Place $A$, where the Object $E$ was alfo to be perceived; therefore it was, I fuppofe, that the Patient miftook the Place D for the Place E.

Fig. 70, Is a fort of Needle with an Edge on one Side, which be- Fig. 70. ing paffed through the Tunica Sclerotis, is then brought forwards through the Iris a little farther than F. This done, I turn the Edge of the Needle, and cut through the Iris as I draw it out: The Handle of this Needle is half black, and half white, which though it is not of much Ufe in this Operation, is very much fo in couching Needles, we being thereby able to judge of their Pofition, when we do not fee them.

Fig. 71, Is an Inftrument to keep open the Eye.lids. G is a Bit of Fig. 7r. Iron, which as it is moved backward, or forward, the Inftrument opens and clofes.

A prodigious swouling of the Eye, by $\mathrm{M} r$ hic. Theod. Klein, $F$. R.s N. 426 P. 429 . at the Optic Nerve, and the Tunicles have ftretched fo much, that the Eye quitted it's Socket, and fell down to the Beard, Letter $b$. The umhappy Man is flill living, and can move this Eye, which weeps, but, as is no Wonder, cannot fee with it. The Tumour is not painful, but it is very troublefome to him about his Nofe.
VII. Fob. 16. 1724. Advocabar ad Puerulum decennem, qui à fex feptimanis febre lentâ decumbebat malè multatus. Præfcriptis quæ res poftulabat remedis, intrà fex vel feptem dierum fpatium à morbo liber evafit: Verùm diebus aliquot elapfis, ingens in Genæ dextræ interioribus fubortus eft Tumor, puero nibilominis, quoad catera benè valente. Ore ejus ægrè diducto, in confpectum venicbat ingens Pu ris quantitas, at unde manaret, præ Pueri protervia non licuit pro Fầc vice explorare. Ideò confulebam tantùm, ut ficum in lacte coctam ad tumorem emolliendum, atque fi fieri poffet rumpendum admoverent. Mane fequeni Os incredibili ferè puris copià, teterrimi odoris (tumore intereà difrupto) diffluebat. Gargarifmate modicè detergente profcripto, circà vefperum pus pari omninò quantitate atque priùs depluebat. Mirabar fanè unde hoc provenire poffet, cùm Ulcus in Genâ tanto proventui nequaquàm fufficere videretur; fufpicabar autem (foetore pro cateris fuadente) materix iftius fontem in capite alicubi intrù offa hatitare: quod cìm paulò diligentius inveftigarem, ecce Os Maxille fuperioris ad dextras carne (quae quafi femicoeta urrinque recefierat) denudatum prorfus atque Carie correptum, \& ex Dentium Alveolis (dentes enim puerulus, ceu inutiles, fuis nullo negotio jam extraxerat digitis) hoc materix purulentæ profluvium jugiter delabi: quapropter Chirurgus è viciniâ advocatus eft, cui committebatur negotium. Huic fuadebam, ut dum O.fis medelæ incumberet, Ulicris itidem deterfioni \& confolidationi operam daret; verùm quicquid dicerem, nulla quacunque Genæ fuppurata adhibere voluit medicamina: quo factum ef, ut ea iterum in molem ingentem, atque alterâ (finiftrâ fc.) duplò major citò excrefceret. Mandibulæ Cariofæ folummodò penicillum tincturâ quâdam, forfan Myrrba, imbutum applicabat. At longo temporis fatio tandem emenfo, cùm parùm fuâ tincturâ proficerit, hamulo admoto, quod temporius factum debuerat, Os Mali integrum evellebatur. Ab Offis extractione Gena nequicquàm fubfidebat, fed potiùs incrementum fumebat, \& materiæ purulentæ copia nullatenùs minuebatur. Offe autem abrupto, Offis Palati dimidium cum Narium Septo abfumptum eft; parte etiam infimá Orbita oculi fimul abreptâ, ut in Iconibus adjectis clariùs oftendere fim conatus. His addendum, quod Tumore Proceffii Zygomatico fuperftiti incumbente, Gena mole duplò infignior fimifrâ extat, \& oculum poenè claudit, pure quafi ex fonte perenni indefinenter fluente.


Fig. 73. Facies Offis externa. a, a, a, a, a, Alveoli Dentium. b Fig. 73. Dens molaris remotior. c. Pars Orbiam oculi faciens. d. Pars Offis ubi abruptum circà Nafum. e. Pars Offis ubi Proceffus Zygomaticus terminatur. f. Pars Oflis fub Labium Juperius.

Fig. 74. Forma interior Offis. I Pars ad Nafum abrupta. 3 Pars Fig. 74. Mandibula exterior \& Dentis alveolos. 4 Pars Offis oculum attingens. 5 Pars Maxilla remotior. 6 Pars Naris dextra, Septo abrupto. 7 Dens Molaris.

Fig. 75. Os refupinatum exhibit. D, D, D, D. Pars Ofis Palati. Fig. 75. E, E, E, Alveoli dentium. F, F. Pars Mandibula exterior. G. Pars anterior ejufdem. H. Dens Molaris.

Fig. 76. Facies interior Offis parùm reclinati. A, A, A, A. Pars Fig. $7^{6 .}$ Mandibuta, \& Alveoli Dentium. B. Locus ubi os abruptum circà Na. fum. C. Pars Offis ocutum attingens. D. Maxille pars remotior. E. Dens Molaris remotior, F. Pars Offis Palati. G. Pars Naris dewtra Septo abrupto, ut in Fig. 74. N ${ }^{0} 6$.

Poft hæc, idem per Literas die 24. Decemb. 1727. datas Editorem certiorem fecit. "Tumorem fupra defcriptum in eodem adhuc re" manere 1 tatu, Materiâ Puriformi Os \& Fauces prò folito irrigante. "Puer cæetera fanus edit, bibit, dormit, \& unà cum aliis fuæ ætatis " quotidiè alacriter ludit.":
VIII. I. Foemina ruftica in Polonia, in terris Principis Radzivil, anno ætatis $15^{\circ}$, viro nupta, incidit $18^{\circ}$, in morbum Poloniæ Endemium, qui Plica Polonica a capillo inenodabili vocatur. Hanc Plicam per 50 annos foemina geftavit, ac per totum fere illud tempus dolore arthritico contracturis tandemque marafmo univerfali corporis afficta tecto affixa fuit, tandemque fenio confecta anno ætatis 78 diem fuum obiit. Fœminam iftam adhuc viventem vidit non tantum, \& ad vi-

Aremarkablic Plica Polonica, by Abr. Vater, M.D. Prof. Anot. Wittemterg, F.R.S. No. 417. P. 50. Fig. 77. vum depingere curavit, fed ipfam Plicam poft obitum refectam íecum Wittebergam attulit D. Flouricke diCti Principis Medicus. Erat autem Plica quatuor ulnas longa, palmum lata duofque pollices craffa, fed altero tanto longior foret, ipfo referente, nifi magna ejus pars, temporis quo $x$ gra decubuit diuturnitate, fqualore \&e attritu confumpta fuifiet.
2. This ftupendous Plica Polonica, was fent to Dreflem, where I faw it. It is remarkable, that the Woman affected with it, who lived in the Diftrict of Novogrod, during 52 Years that fhe laboured under it, never changed her Retting Place but twice a Year, viz. in Spring and Winter. Upon the Approach of Winter fhe could en- N dure Cold fo very well, that the fhunned all Sort of Heat, even that of a lighted Candle. She never ufed any ftrong Liquor, but lived on 1 farther 1ocuint of the Same, by Mr Jic. Theodor. Klein, F. R.S. No. 426. p. 128. very bad Bread, raw Herbs, and Water, to 70 Years of Age. In the Spring the ufed to be carried to fome Place where the Heat could not eafily penetrate. She at length died, near two Years ago *.

[^0]Of the Cande 3. The Plica has been always thought to be a Diftemper, and to of the Plica Polonica, srangated fromated thigh- nefs, by not combing their Hair, nor wanhing their Heads; for if Duchis, bysir were a real Ditemer, the People of Fanng their heats; for if it

Cons. Sprengell, M.D. F.R.S. No is 417. p. 51. of Breflaw, entituled sammiung £ont Datut. \&rc. Anno 1724, Artic. 17, Menfo Augufto, p. 126.
"The great Multitude of People in Poland, who are troubled with " this Plica, firft made me reflect, whether it were a real Difeafe or " no? But I am now convinced, that their fwinifh way of living, and "t the common Opinion fo deeply rooted in the Generality of People, " that this Lock of Hair cannot be taken off without Danger of their "Lives, have contributed more to this Complaint than any real In"s difpofition of Body; confidering that it is the middling or poor "People, who are troubled with it; whom then one cannot look on " without Horror: But no German, of whom great Numbers live in that "Country, ever had any fuch thing grow. Many of them, who are " married to Women of Polijh Birth, are fcarce able to perfwade their " Wives not to train up their Children to this Naftinefs. Not long " fince I faw a Fellow in the Church, who had about feventy of fuch " Locks hanging down from his Head, which were as hard twifted, " as fo many Penny Cords; that one might eafily have taken his for " for a Medufa's Head; and who knows, but that, in ancient Times, ". fome fuch Locks as thefe might have given Rife to the Poetical Acount of " Aook, entitled, "Fiction of Snakes growing on the Head inftead of Hair? Be that Adverfario- " as it will, this is certain, it is a moft odious Sight."
rum Anatomi- IX. The Author tells us, he firft found out the Eabrick of the corti-co-Medico. Chirurgico. rum Decaster. End of the Arteries.
cia. Auctore
Fred. Ruyfch,
M. $D$.

Alvat. EO Bot.
Prof. Amftel.
R.S.S. No.
379. P. 428.

## The NECK and THORAX.

Account of tbe I. Young Lad being in a good State of Health, was all of a fudOperation of Bronchotome, as it soas performed at St Andrews, by George Martin, M. D. $\mathrm{tin}, M . D$.
$\mathrm{No.416.p} .448$ C H A P. IV. cal El part of the Brain, that it is made of fimall pulpy Canals from the however, I could fee nothing wrong, the Amygdalc, and other Paris in view, being in all Appearance found enough, but only looking a little drior than ordinary: without any external Tumour appearing about the Lerynx, and no confiderable Frequency or Strength in his Pulfe. But he had great Pain and a $D_{\sqrt{ } / \text { Pncea, }}$ with an Impofibility of fwallowing

fwallowing either Licuids or Solids; every thing returning forcibly by the Mouth and Nofe, when he made an Effort to get it over. From all which I reckoned it an Angina of one of the worft kinds, fine apparente tumore (a), and the Seat of the Difeafe in the Largnx and the Fibres common to it, and the Top of the Gullet.

Notwithftanding repeated Bloodings, Bliftering between his Shoulders, Cupping, $\xi^{c}$ c. the Difeafe continued fo obitinate, and the Patient fo like to fuffocate, that next Day in the Afternoon his Friends, although very averfe in the Morning, when I firft propofed the piercing the Windpipe, at length earneftly defired that the Operation might be performed; and the poor Lad bad us try any Experiment to preferve his Life. He had good Reafon fo to do; for indeed, in all Probability, in a few Hours he would have been ftrangled to Death moft miferably. We directly fet about the Operation, which was done with fuch Succefs, that in lefs than four Days, his Breathing being perfectly eafy, and his Deglutition being almoft fo, we removed the Cannula, and left the Glottis todo it's own Office.

According to Calius Aurelianus, (b) and the Author of the Liber Introductorius (c) afcribed to Galen, Bronchotomy was propofed by Afclepi. ades, (however inconfiftent with his Delicacy, and the reft of his Character, the feeming Harfhnefs of this Operation may appear) and is defcribed and earneftly recommended by almoft all the fyitematical Writers of Surgery from Paulus of Fgina (d), and, as he fays, Antyllus, and fome other of the beft Surgeons before him, down to the prefent Times. But when they are at fo much Pains to defend the Reafonablenefs of it, and when they fhew fo much Fondnefs of citing and telling Examples of the healing accidental Wounds of the Trachea, without ever mentioning their own regular Performance of the Operation (which would have been a fhorter and much more effectual Recommendation of it) when I fay I confider all this, I find myfelf obliged to think that it has very feldom been reduced to Practice. So rare had it been that Aretaus, a Man of vaft Judgment and Skill in Difeafes (e) thought the Operation had never been actually done with Succefs. And Celius Aurelianus looked on it as an impracticable Whim of Aflefiades. Neither Avenzoar $(f)$ nor Albucafis $(g)$ knew any of their Countrymen who had undertaken it. And the Arabians are reputed to have been hardy Surgeons enough. The moft I know of amongtt them of this Kind is in Avenzoar, who tried the Experiment on a Goat, and cured the Wound which hews the Ingenioufnefs and Induftry of the Author. For as to what you will find fome Writers telling you, that Rafes (b) faw Andrufius the Phyfician do it (the Copy I looked into, printed at Venice 1505, calls him Ancilifus: and perhaps it fhould be Antyllus

[^1] will eafily conceive, that all he fays of the Operation is upon hearfay; and confequently, that he had only feen in Books, that fuch a one had done it. That moft accomplifhed Anatomift and Surgeon Fabricius ab Aquafendente (i) frankly acknowledges, that neither he nor any of his Contemporaries had ever ventured to perform it. Neither does his Succeffor in the Profeffion of Surgery, and his Rival in Anatomy, Fulius Caffarius of Placentio (k) pretend to have done it; though he has endeavoured to illuftrate the Operation by fome very neat Figures; which you will not readily fulpect to be from any but dead Bodies. And next to him M. Aurelius Severinus (1), who was a very judicious and learned Man, and the beft and boldeft Surgeon of his Time; though he recommends it with a great deal of Warmth and Keennefs, yet it feems even in his latter Days, he never had occafion to try it: fo that the firft undoubted and diftinctly recorded Hiftory I can find of this Operation being actually practifed, is in the learned Anton. Mufa Brafavolus ( $m$ ) who performed it in a defperate Squinance, when the Surgeon refufed to do it; and repeated it again in the like Cafe. Mr Arnaud the Frencbman did it; but his Patient died ( $n$ ). However, his Countryman Mr Binard had better Succefs (0). Dr Friend ( $p$ ) cites Purman doing it; and ( $q$ ) tells us of another Cafe communicated to him by a Surgeon whom he does not name. And befides thefe, I believe there are but few Inftances can be produced, of any who really performed the Operation on a living Perfon. 1 hear now that Mr Baxter, a Surgeon in Coupar of Fife, not far from us, and Dr Oliphant in Gafk in Perthflire, did it with very good Succefs within thefe few Years.

In the actual Performance of the Operation they certainly did, or might have obferved fome things omitted by Authors, and even fome not perfectly agreeing with the common Accounts that are given of it. I think it worth while to obferve, that in the very cutting, before we got a free Aperture into the Tracbea, and the Pipe introduced, the Patient felt fome Relief; which I thought might be afcribed to the Effufion of Blood in the Operation; a fmall Quantity whereof evacuated fo near the Part affected, could not, according to the true Laws of Hydraulics, and the Obfervations and Practice of the Ancients, (however difagreeing with Bellini's Theory) but make a more confiderable Revulfion, than a much greater taken away at a great Diftance. Whence the judicious Fab. ab Aquapendente ( $r$ ) with very good Reafon fuppofed that by the Derivation here, the Patient

[^2]would be more apt to feel forne Relief than Trouble. Which Gulius Guaftavinus tòo made no Doubt of in his Difpute upon this Subjeet againft Aretous (s). And now their Suppofition and Conjecture is confirmed by Experience. And fince there continued a greater Flux of Blood to the Wound while it was fuppurating, I reckoned the Circulation in the Mufcles of the Larynx to be with lefs Force than ordinary, and fo probably to contribute to the diminifhing the Strength of the Voice, which for a good many Days after the Operation, was obferved to be much weaker than it ufed to be. Which I all along thought was rather owing to this, and the Lownefs of his Body by his nender Diet, $\mathcal{E}^{2} c$. than to any Hurt of the recurrent Nerves; which being cut, do indeed deftroy the Voice, but by their Deepnefs, are in lefs Hazard than fome in old Times ufed to think.

In doing the Operation on a living Perfon, one cannot but remark at the very firft, that the Cannula fhould not be made near fo thort as is ordinarily propofed in Books and chirurgical Lectures: For we found that upon cutting the Parts, efpecially the Tbyroid Gland (which is not fo much minded in moft of the common Defcriptions of this Operation as fhould be) foon become fo tumified, that it will require a Pipe above an Inch long, to penetrate fufficiently into the Ajpera Arteria. Which is more than double of Garangeot's Allowance of fix Lines; who is one of the recenteft Writers, and has communicated to us all the Surgery the Frencb are Matters of. The Leaden Pipe we had prepared not anfwering the Defign, that which we made ufe of was too long and too fmall, being the common Cannula for tapping in the Dropfy, flatned a little at the End, and hindered by a very thick Comprefs, perforated in the Middle, from penetrating too deep into the Tracbea.

The mucous Particles and Steams arifing from the Lungs, made a conftant weeping of a thin flavery Liquor, from the Mouth of the Pipe, part whereof thickening, and ftuffing it's Cavity, fometimes very much incommoded the Patient's Refpiration by it, fo as to render it neceffary to have it taken out and cleaned. And hence, when fome Moderns very precifely bid us put a thin Slice of Spunge, or a bit of Mullin, $\mathcal{E}^{2}$ c. clofe over the Orifice of the Camula, to prevent the Ingrefs of Duft, Down, or the like, into the Lungs, it confirms what I faid before of the Unufualnefs of the Operation, and looks as if they had only contemplated the Matter in Abfracto, as the Metapbysecians fay, without confidering they had not to do with a pure thin dry Air, but with a heterogeneous Fluid, that is moiftened and thickened with vifcid Particles, which are apt to run together in ftiff Concretions. And therefore, though it muft be acknowledged, that there would have been lefs Hazard of a Stoppage, if our Camnula had been Ahorter, and wider, efpecially at the Mouth. I cannot but think it VOL. VII. Part iii.

[^3]Obfervations on a Treatife surit by M. Helvetius, of Paris, to prove tbat tbe Lungs do not divide and expand the Blood, bus en tbe contrary cool and con:denfe it ; by F. Nicholls, $M$.
B. Pral. Ahat. Oxnn. and $F$. R.S. No 410. ค. 163.

## An Account of the Operalion of Bronchotome.

 an ingenious Propofal of one of our Minitters here, to make the Pipe double, or one within another; that the innermoft might fafely and eafily be taken out and cleaned when neceffary, without any Moleftation to the Patient: For it is no fmall Trouble to him, to be obliged to have the Bandage frequently removed, and the Pipe fitted a-new to the Orifice made in the Tracbea.And indeed we found no Inconvenience in our Patient's breathing the Air as it paffed through the Pipe, without any cleanfing or intercepting Medium, though the Houle was none of the cleaneft, being an ordinary Tradefman's here. But if by a larger, and confequently a more patent Tube, one, efpecially of more delicate and ticklifh Lungs, fhould be incommoded that Way, I think the Accefs of Duft, $8 \%$. might conveniently enough be hindered by a Piece of Mullin, or thin Hair-Crape, tied fackly about the Neck over the Orifice of the Camula, fo however as not to touch it, or to be wetted by the Liquor coming from it.

The Patient was foon perfectly recovered: He breaths, fpeaks, eats, drinks, and performs all the other Offices of Life, and goes about his Calling as formerly. And now I cannot but take notice the needlefs Pain fome Writers are in about healing up the Wound by Bandaging, Stiching, $E^{3}$ c. For we found it eafily to fill up of itfelf in a very few Days, by only dreffing it every other Day, or fo, with a foft Tent, made lefs and lefs every Dreffing, and armed in the common Way with Liniment. Arcai. I believe indeed it would have taken a little more Time to heal, if our Patient had been older.
II. The Matter in Queftion between the Author and Michellotti is, whether the Lungs cool and condenfe the Blood, according to the Opinion of the Antients, or whether they mix, attenuate, and, of confequence, expand it, according to the Syftem of Dr Pitcairn.

The Author, in order to fupport the Opinion of the Antients, brings feveral Arguments to confute the Syftem of Dr Pircairn: The moft confiderable of which (and which indeed he makes his Argumentum crucis) is, that the right Auricle and Ventricle being confiderably larger than the left Auricle and Ventricle, and the pulmonary Artery having a larger Capacity than all the pulmonary Veins taken together, the Blood muft evidently occupy a greater Space before, than after it's Paffage through the Lungs ; and becaufe the Difference in the Capacity of thefe Veffels cannot be ballanced by any Increafe of the Velocity, he concludes, that the Blood is not attenuated and expanded, but muft be condenfed in it's Paffage through the Lungs. And this he conceives is done by the Air, which (as a Fluid relatively cold) mult cool and condenfe the Blood, to which it is fo nearly applied in the Action of Infpiration.

That the Blood is cooled by the Action of Infpiration, is a Matter of which I believe few Phyficians doubt, when they confider, that in Inflammations of the Lungs, nothing is more earneftly defired than
the breathing cool and frefh Air, nor does any thing more evidently conduce to the Cure of Inflammatory Difpofitions, than the Ufe of frefh Air.

If we confider the State of the Blood at it's Return to the Heart, and how careful Nature has been, not to ufe this Blood for the Nourifhment of the Lungs, before it has paffed through the pulmonary Vein and Artery (though it would in that Cafe have been as effectually cooled in the Bronchia! Arteries as in the pulmonary Veffels ) we are naturally led to believe, that it is fome other Quality, which has rendred it improper for Nourifhment, and which is to be deftroyed by the Action of the Lungs.

For this Reafon, and from the Structure of the Parts fubfervient to breathing, it feems evident, that the Blood is mixed, attenuated, and confequently re-expanded in the Action of Expiration. I fhall now confider, whether the Action of Infpiration, fo far over-balances the Action of Expiration, as to condenfe the Blood into a lefs Bulk, than it had before it's Paffage through the Lungs.

The accurate Santorini of Venice, in the Sth Chap. and 3 d Sect. of his Obfervations, has carefully examined the Faet, as fated by Hel vetius; and finding it true in that one Subject, as to the Auricles, and pulmonary Veffels, but falfe as to the Ventricles, he proceeds to prove, that this Difference in the Capacity of the pulmonary Veffels, could not be defigned on Account of the Blood's being condenfed in it's Paffage through the Lungs; becaufe, if fo, the right Ventricle ought to have been larger than the left Ventricle; and the pulmonary Ar tery ought, not only to have been larger than the pulmonary Veins, but it ought likewife to have been larger than, or at leaft equal to, the two Vence Cave; whereas, in his Subjeet, the two Vene Cave were to the pulmonary Artery, as 228 to 188.

In the mean time, he recommends the repeating the Enquiry to other Anatomifts, as doubting whether the Fact is conftantly fo in healthy Subjects.

As fuch an Enquiry may be of Confequence, not only in fettling the Point in Queftion, but in explaining other Parts of the Animal EEconomy, I doubt not but it will be agreeable to the Society ; and the rather, becaufe the Subjects from which I have taken the feveral Calculations, are here produced before the Society, and fubmitted to a Re-examination if defired.

The Meafure which I have here ufed, is the II3th Part of an Inch.

I have taken the Triple of the Diameter for the Periphery, and computed the Area, by multiplying the neareft whole Number to $\frac{1}{4}$ of the Diameter into the Periphery. Though this Method is not fufficiently exact to thew the real Contents of Circles, yet as my Defign here, was only to find nearly the relative Contents of the feveral Veffels, I have chofen to avoid embarafling the Sums with Fractions.

| Of the Vena Cava defcenden | $79237$ | $4740$ |
| :---: | :---: | :---: |
| Pulmonary Artery | 115345 | 10005 |
| Superior left pulm. Vein | 69 20'7 | $3519)$ |
| Inferior left pulm. Vein | 73219 | 3942 |
| Superior right pulm. Vein | 49147 | 17 |
| Middle right pulm. Vein | 40120 | 120 |
| Inferior right pulm. Vein | 57171 | 2052 |
| Aorta | IIO 330 | 8910 |

The afcending Cava being tied above the Diaphragn, could not be meafured in this Subject.

As Monf. Helvetius no ways mentions the Difeafe, of which the Subject died, from whom he took his Obfervation, fo I cannot fay how proper it was for fuch an Examination ; but it is evident, his Obfervation does not tally with the Calculations made from this firft Heart; where the pulmonary Artery is to the Sum of all the pulmonary Veins as 10005 to $\mathbf{1 2 4 7 7}$. And yet this Subject (befides a cancerated Ovary, and a Putrefaction of the right Kidney from the Ureter's being compreffed) had her Lungs full of fmall Tubercles, and the Glands lying between the great Divifions of the Trachea, almoft petrified by atheromatous Concretions: By all which it is highly probable, that the Paffage of the Blood, through the Lungs, was very much impeded, and of Confequence, the pulmonary Artery much dilated beyond it's natural Capacity.

And this I am the rather induced to believe from examining the fecond Heart, which is of a Child nearly twelve Manths old. As to it's Death, I can fay nothing more, than that it's Lungs appeared perfectly found, and of a pale clear Colour; and therefore the more proper for an Examination of this Kind.

In this fecond Heart, the Diam. Per. \& Areas, are, Of the Aorta above the Coronaries $43 \quad 1291419$
$\left.\begin{array}{llrrr}\text { Pulmonary Artery } & 43 & 129 & 1419 \\ \text { Superior left pulm. Vein } & 29 & 87 & 609 \\ \text { Inferior left pulm. Vein } & & & \\ \text { Superior right pulm. Vein } & 26 & 78 & 507 \\ \text { Middle right pulm. Vein } & 17 & 51 & 204 \\ \text { Inferior right pulm. Vein } & 32 & 96 & 768\end{array}\right\} 2088$

We may here obferve, that the Aorta, after giving off the Coronary Veffels, is equal to the pulmonary Artery. As to the Proportion between the pulmonary Artery and Veins, the Artery in this Subject is to the Sum of all the Veins here meafured, as 1419 in 2088, and yet the
lower left pulmonary Vein is here omitted, as being tied too clofe to admit of being meafured. But if we fuppofe the inferior left pulmonary Vein to be to the fuperior left pulmonary Vein, in the fame Proportion as in the first Heart, we fhall then find it's Diameter neardy 31, and it's Area at leapt 700, which will make the pulmonary Artery in this Heart, to the Sum of all the pulmonary Veins as 1419 to 2788 ; and in that Cafe, the left pulmonary Veins will be to the right pulmonary Veins, but as 1309 to 1479.

The 3 d Heart is of an Abortive, nearly of 5 Months: By it's Appearance, I judged it fuffocated by too much Blood. In this Subject, the

Of the Vena Cave defcendens
Vena Cavan afcendens
Aorta above the Coronaries
Pulmonary Artery
Canalis Arteriofus
Right pulmonary Branch Left pulmonary Branch Superior left pulm. Vein Inferior left palm. Vein Superior right pulm. Vein Middle right puls. Vein.

Diam. Per. Areas are,


The inferior right pulmonary Vein is here cut too clofe, and otherways injured, fo that it's Area cannot be meafured. Nevertheless we find the remaining pulmonary Veins to the pulmonary Branches of the pulmonary Artery, as 294 to $19^{8}$.

We may here obferve a remarkable Difference between the Capacities of the two Vena Cave taken together, and the pulmonary Artery; the two Cave being more than double the pulmonary Artery, and the pulmonary Artery fill one Third larger than the Aorta, As this Difference could not arife in this Cafe from the Blood's being condenfed by the infpired Air, fo it feems a Proof, that had the Fact been true, as fated by Helvetius, it had neverthelefs been an infufficient Demonftration of his System.
III. Dec. 15th at 10 at Night, I was fent for to an Officer of the Excife in Salifbury, who was taken with fo violent a Flux of Blood, that in a fort face of time he loft near three pounds: By the time I

A Polypus coughed up from tbelWindpipe, by Dr Samber, $\mathrm{N}^{\circ}$. 328. p. 262. when he coughed, that fuck in the Paffage, which he could not get up, and by it's rattling I thought it very loofe. I ordered what I thought proper in fuch a Cafe, and left him: Next Morning they told me that, half an hour after I was gone, he had coughed up what they hewed me on a Sheet of Paper. Upon putting it into Water, I found it a Polypus; and, as I think, a very remarkable one. I here

A Polvpus,

## refembling a

 Brancb of the Pulmonary Vein, cougbed up by an aftbmastic Perfon. By Frank Nicholls, M. D. F.R.S. $\mathrm{N}^{\mathrm{o}}$. 419. P. 123. it was hollow; but it's being torn off with fuch violence, has made fo many Holes in it, that it cannot be blown up. You will (I believe) conclude, it lined the Broncbia, and that the Air had a Paffage through it, and that a violent Fit of coughing had feparated the Adhefion, and brought on that violent Flux of Blood, 玉 $c$. He had been tormented with a Cough for more than fix Months, was a gouty Man ; but after this was coughed up, and fo large an Ulcer made, he had all the fucceflive Symptoms of a fatal Confumption; as Cough, Spitting, Hectic, colliquative Sweats, Diarrhæa, and died the I6th of January, aged near 50 .2. Nicbolas Tulfius, in the 7th Obfervation of his fecond Book, prefents us with the Cafe of a Man, who, with a large Effufion of Blood, threw up, by coughing, wo Branches of the Pulmonary Vein, fix Inches long, with their feveral Ramifications, freed from the Trachea, and Subitance of the Lungs, as if diffected by the moft accurate Anatomift. This Cafe he obferves to be very extraordinary, and not to be parallelled in the Writings of phyfical Authors.

A litcle Acquaintance with the Structure of the Lungs, fufficiently evinces the Impofibility of the Fact, as thereftated; wherefore (not doubting the Veracity of the Author) I always believed him to be deceived by a Polypus of the Vein, which might be coughed up in the Manner by him defcribed.

But the following Cafe will give another Light to this Affair. July the 18 th 1730 , I was confulted on Behalf of one living in Effex, who was afthmatic, and coughed up Phlegm, refembling Worms; to remedy which, I directed a Lac Ammoniacum, with Squills; from the Ufe of which he expectorated more eafily, but continued fill to cough up the fame Subftances.

The 1 ith Inftant, on the Road to London, he was feized with a Shivering, and pleuritic Pains; a white Tongue, hard and quick Pulfe, E3c. By repeated Bleeding his Pains decreafed, but the Cough remained more violent than ufual. On examining the expectorated Phlegm (which was tinged with Blood) I found it fibrous, and when expanded in Water) exactly refembling the Veffels in the Lungs. Thefe Subftances are as tough as the Coats of the Veins, and (like them) hollow. He has coughed up more or lefs of them every Day, for feven Years; fometimes perfectly white, and fometimes tinged with Blood: Notwithftanding which, he has had no other Complaint, has
Fig. 80. had a good Appetite, and Colour, and a greater Share of Fat than any Man would choofe. The Specimen here fhewn was expectorated, when I was prefent, the 16 th Inftant. It nearly refembles the firft Draught of Tulpius, and is no more than a vifcid Phlegm, fecreted by the relaxed Glands of the Tracbea, and afterwards concreted by the Heat of the Part.


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IV.r. May Ioth, 1726 , I opened the Body of a Perfon, who died the A Araternatuforegoing Day of a Peripnaumonia; in the right fide of whofe Thorax I found an offeous Subftance, about $\frac{1}{7}$ of an Inch thick, 6 Inches long, and 3 broad, extending it felf under the third, fourth, fifth, and fixth Ribs, clofely and ftrongly connected to the Periofteum of the Ribs, and the Tunica propria of the inner Intercoftal Mufcles, by Fibres, which fhot from a ftrong and thick intervening Membrane, which clofely adhered to it's outer Surface or Back, and was continued over it's inner likewife, thereby forming a Capfula for this præternatural Subftance. It's upper Edge lay immediately below, and was contiguous to that Part of the Ribs, where they become cartilaginous: The Membrane that adhered to, and covered it, continued thick fome diftance from it, and gradually grew thinner, and was at length loft in the Ploura; from whence I judged this extraneous Body to have been formed between the two Lamellic of that Membrane. The Lungs fo ftrongIy adhered to it's Infide, that upon feparating them, part remained to it: Upon cutting into which, I obferved ali the Cells ftuffed with a thin, but fomewhat digefted, Pus.

Upon farther Enquiry, I found on the fame fide, towards the Back, another Subitance, but perfectly Bone, invefted as the former, with a ftrong and thick Membrane, and by the Fibres, which fhot from it, tied to the Body of the Vertebre, and the fourth, fifth, fixth, and feventh Ribs, and Intercoftal Mufcles.
It's Back, or Outfide, was convex, agreeable to the concave Surface of the Ribs, which had made Indentations on that part of it where they preffed: It's Infide was concave as the Ribs; the right Lobe of the Lungs ftrongly adhered, part of which, for that realon, remained to it after Separation: It's Length was about feven Inches, Breadth about three from Edge to Edge: It's Thicknefs, in fome Parts $\frac{1}{3}$, in others $\frac{1}{4}$ of an Inch. It had, as the former, a thick Membrane running from it, which gradually thinning was at length loft in the Pleu$r a$; from whence I judge this extraneous Subftance to have been formed as the fore-mentioned.
2. He was troubled for fome Years with a fhort Cough, which latterly was accompanied with a difficulty of Breathing, and great Labour in Infpiration; and fome time after, with a Weight and Pain on the right Side; which Symptoms encreafing more and more, 153. brought on the Peripneumonia, of which he died in a few days. The Rife and Succefion of thofe different Symptoms proceed naturally from the Formation and Growth of this preternatural Body, as wal as the particular Part of the Thorax, where it was lodged.

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\begin{gathered}
\text { (s06) } \\
\text { CHAP. V. } \\
\text { The } A B D O M E N \text {. }
\end{gathered}
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At extracordinary faarp $I_{n-}$ pofthumation of the Liver ; by Tho. Short, M.D. No. 42 O . p. 184.
III. I had a Patient about feven Years ago, who had a large Tumour $A_{n}$ Impofficuon the upper Part of her Belly, it was hard and painful, but did not alter the natural Colour of the Skin, and had been three Months in ion in the Stomacb; by coming. I applied a warm Gum Plaifter to it, which in about a Surgen, No. Fortnight's time brought it to a Suppuration. I then applied a Cau-371. p. 80. ftic about the bignefs of a Shilling; when the Efchar fell off, I faw a folid kind of Subftance appear in the Orifice, I laid hold of it with my Forceps, and pulled it gently towards me, upon which there thruft forcibly out a quantity of it, that near filled my Hand, fo I dreft it. Next dreffing, the fame Subftance appeared again, which on her ftraining, forced out near twice as much as before. I was at a great Lofs to determine what this ftuff was, but at laft concluded it was the Omentum itfelf in which Opinion I was confirmed by fome other Surgeons to whom I fhewed it. I was fill in doubt, whether the Stomach was concerned in this Cafe or not, till the next Removal of the Dreffings, at which there fpurted out above half a Pint of Ale, in a full Stream, which fhe had drunk a tittle while before. I now concluded the Cafe mortal, however, I ordered her to keep her Bed, to lie conftantly upon her Back, and feed on Things of eafy Digeftion. The greateft pare of what fhe eat or drank, came through the Ulcer for eight or ten Days, fo that I had no hopes of ever curing it ; yet, contrary to my Expectation, in about fix Weeks, fhe was perfectly cured, and is now living, and in good Health.
IV. Fames Skidmore had complained for three or four Years laft paft, of a violent Pain in his Stomach and Bowels, never being able to reft in his Bed at Night, 'till he had vomited up the greateft Part of what he had eat or drank the Day before. He would often compare his Pain to fome great Weight, Jying upon the Region of the Stomach, which, he in fome Meafure alleviated, by preffing hard with his Hand upon that Part. When he turned himfelf in Bed, from one fide to the other, he told me, he could plainly perceive fome Fluid

A preternatynal Perforation in tbe upper Part of tbe Stomacb; by Chriftoph. Rawlinfon, Sargeon, No. 400. p. 361. fall down with Noife to the depending Side; which Fluid he believed to be the Occafion of all his Mifery: For which Reafon he often faid, he would willingly confent, nay, often earneftly preffed, that the Surgeons would cut him open (as he expreffed it) and let it out.

He had no apparent Tumour upon the Part, nor was his Belly more extended than ufual. He had had the Advice of feveral able Phyficians, before he came into the Hofpital, but all without the lealt Amendment to his Difeafe. When he died, we were defired to open him, and try if we could find ont the Caufe of his Complaints. As foon as we had penetrated the Peritoncum, there flowed out a whitifh Liquor, not much unlike Whey, only a little more thick and freculent; nor did it emit fo noifom a Smell, as might be expected from it's long Refidence in that Place. We computed there were above four Quarts of this Liquor contained in the Cavity of the Abdomen.
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We found the Stomach perforated in it's upper Part, about the middle Space betwixt the two Orifices, wide enough to contain the end of one's Finger, We cut it open len $\xi^{\text {th }}$ h-ways, and found it pretty fu!! of a thick glutinous Matter, inclining to be yellow; and to it's inner Coat, on the lower Side, there firmly adhered the Stone of a Prune, or fome other Fruit refembling it. On it's Infide, near the preternatural Perforation, it was gangrened for two or three Inches; and on the other Side of the Perforation there was an Ulcer near the fame bignefs. The whole Stomach was a great deal thicker than ufual ; but that Part, next the Pylorus, was above four times thicker than in a natural State. It adhered clofely to all the Parts about it ; and to the Pancreas, it was fo firmly tied down, that it could not be feparated without tearing. The Spleen did not exceed a quarter of an Ounce in Weight. The Pancreas was fobirrous, though pretty near it's natural Size. In the Liver and Kidneys, there was no apparent Defect; nor had the Parts in the Thorax received any vifible Alteration, except that the Lungs adhered more firmly to the Pleura than ufual. The Intefines, and all the Vijcera contained in the Abdomen, were of a whiter Colour than ufual, by being fo long fodden in the Liquor in which they floated.

A Stricture in the middle of the Stomach, dividing it into troo Bags. By Claudius Amyand, Efq; F.R.S. $\mathrm{N}^{\circ}{ }_{4} 22$. p. 260.

Womiting of Blood cured,
by drinking excefive cold Liquors in Winter; by PeterAnthony Michelotti,

## M. D.F.R.S.

## No. 419 p.

 129.V. Upon opening the Body of a young Country Girl, dead of a Confumption, I found her Lungs fuppurated in many Places, and a Stricture in the middle of the Stomach, dividing it into two Bags. This StriEture appeared to have been of fome ftanding, and likely to have occafioned fome Difficulty in Digeftion; but upon Enquiry, her Miftrefs and Fellow-Servants faid, that her Appetite and Digeftions were natural, and that fhe had continued in a good Plight, till upon coming to London, the contracted a Cough, that had brought on the Confumption.
VI. Quum Ludovicus Maffetti, rure, ubi venatione, $\& \tau$ perequitando fe vehementer exercuerat, in urbem reverfus Sanguinem $10^{\circ}$ Cal. Jan. 1 ' 28 . ad uncias quinque fexve matutinis temporibus vomeret, hujufcemodi curationem inftitui. Primùm, quod Cruoris in Arterias, Venafque vim, eas diftendere continenter nitentem infigniter, \& præcipuè ex fuperfluente Sanguineæ materiæ copia adauctam animadverterem; minimèque ignorarem Juvenem laborare fchirrhofo lienis tumore, ob quem, \& Sanguinem vel hos ante quatuor annos evomuerat, \& narium copiofis hæmorrhagiis à prima ufque adolefcentia vere, \& autumno quotannis tentari confueverat; quæ, pofteaquam fortuitò à luforibus follis capiti impactus fuerat, ferè ex toto defecerant; quèd hæc, inquam, minimè ignorarem, ad uncias circiter 8 ex hæmorrhoidibus Sanguinem per hirudines protinus mitti, ejus copiæ demendæ, atque à liene, \&x ventriculo avertendæ caufa præcepi; tùm aquam ex Plantaginis fucco, corallato, nitro bene faturam cyathi menfura fæpius eo die forbendam præbui ad Sanguinis fervo. rem compefcendum. Sanguineo verò vomitu circà fecundam noctis vigiliam vehementiùs urgente, fub eoque, Sanguine maximo impetu
copiofifimè ad os ruente, aquam ex Lactucæ fucco, cydoniati J. B. Helmontii Laudani guttis duodecim, unciarum quatuor pondo commiftam confeftim potui dedi, \& Cruoris potiflimùm velocitatis minuendæ, \& fomni accerfendi ergô : quod medicamentum, quum Æger, Sanguine ex ventriculo tertiùm, quartùmque ingenti copia erumpente, rejiceret, ad catapotia ex perfici Pbilonii fcrupulis fex, ex aqua fucci Sanguinalis herbæ devoranda decurrri. Sub idem tempus gelidam aquam frigido aceto permiftam ore contineri, fpongiamque perfrigido aceto benè imbutam epigaftricæ regioni admoveri juff, ad fanguifera ftomachi vafa, fivè exefa, fivè rupta, fivè quocunque modo patefacta conftringenda: quem in finem, quandoquidem idem cruentus VomiEus quintùm, fextùmque revertebatur, atque 厌ger exanimari videbatur, non modò ad confectionenı ex contufis albi papaveris, \& hyofciami feminibus rofaceo faccharo, armenia bolo, ac lapide hæmatite adjectis, femicochlearii pondere devorandam decurrebam ; fed ad confolidantia quoque catapotia, quæ fub Autore Helvetio Patre feruntur, quorum terni fcrupuli quarta quaque hora affumebantur ex aqua modò commemorata, in qua modica pollinis ex margaritis, \& rubris coralliis in calcem redactis, itemque ex magifterio oculorum cancrorum portio foluta erat. Per hæc auxilia confecutus fum, ut Sanguis per aliquot horas conquieverit.

A Sanguinis per fectas Venas detractione ea nocte abftinui: primùm, quòd Sanguinem ad libras 12, \& ampliûs duarum circiter horarum fpatio ex ore procefliffe, jacentemque ob id, in conclavi frigido, paucis veftimentis corpori injectis quietus animo linqui perfpicerem ; tùm, quòd Cordis, \& Arteriarum coagitatio, \& quod confequebatur, refidui Cruoris pauciffimi velocitas effet quam maxima; indè, quòd ad avertendum tantæ fanguineæ materiæ à ventriculo curfum, exiguum Sanguinis emiffionem, \& parvo quidem tempore duraturam, fivè ex parte ab ipfo affecto ventriculo minus remota, fivè ex Vena quàm longiffimè ab eo diftante haud fufficere, exiftimarem; pofteà, quòd, vel per medicam, hujufcemodi rebus circumftantibus, Sanguinis detractionem, fulphuratarum fanguineæ maffe particularum ad coccineas maffulas pænè ex toto deficientes proportionem jàm notabiliter (uti ex magna fiti, corporis calore, brachiorum, \& crurum jactatione, infignique pulfus frequentia conjiciebam) increfcentem, una cum Sanguinis velocitate cruentum Vomitum rursùs excitare valente fummopere adaugeri poffe, providerem.

Albente cœlo, Vomitu denuò reverfo, ad Sanguinem, qui notabili tum quoque copia evomebatur, fupprimendum, frigidum ex urenti urtica Succum, cui tofti opii grana 8 admifta erant, ad uncias 4 potandum obtuli; qui quum ex toto non refponeleret, ad extremum ratiocinando conftitui, \& Sanguinis Ductus in ventriculi cavum pertinentes ejus aërem condenfando comprimere, \& Sanguinem ab iis fupportatum reprimere perquàm gelidiffimis potionibus, quia verò cujufquemodi generis cibos, fivè ex contrito pane, fivè ex recentium ovo-
rum vitellis, in gallinaceorum pullorum jufculis fohtutis, fivè ex prifana hordeacea, oryzaque cremore, 在ger morbo fufus, ftomacho maximoperê languente reddebat, forbitiones virium imbecillitati fuccurrentes, neque onerantes delegi : \& primùm quidem ex Cbioccolatte; tùm ex vaccino lacte, \& faccharo; indè ex hoc, \& cremore ex dulcibus amygdalis, albique papaveris feminibus recèns expreffo: cujufmodi liquores frigoribus ex glacie \& nitro congiaciati, fcilicèt modò unus, modò alius quinta, fextave quaque hora ad uncias circiter feptem hauriebantur, interpofitis non multis quidem, fed fxpè nocte, ac die haud leviter fitienti datis ex frigida Nucerina aqua potionibus. Quæ curandi via maximè, quemadmodum ego arbitror, rationalis mirificè quum conferret, in ea perftiti ferè ufque ad Februarii menfis proximè infequentis initium ; quo tempore victum primis quidem diebus ex decocta in gallinaceo jufculo, oryza confciffove triticeo pane, eodem jufculo, bene madente, aut recenti ovo; in fequentibus verò diebus ex carnibus quoque, modò gallinaceis, modò vitulinis, \& interdum ex avibus imperavi: prætereàque ad imbecillem ftomachum confirmandum præfcripfi tincturæ ex abfinthio fine vini fpiritu extractæ guttas circiter 60 quotidiè paulo ante prandium ex Pimpinellæ herbæ aquæ cochleario fumendas.

Prætereo, me tertio, quartove morbi die vaccinum lac, butyro, ovi vitello, ac rubro faccharo admiftis in ultima inteftina per clyiteres infundi, curaffe ad atrum fanguinem ex ventriculo ad inferiores partes defluentem educendum: quem propterea quòd craffi ex fuligine pulveris formam habere, animadverterem; à medicamentis ad Cruoris in ventriculi caveam effufi concretionem prohibendam, tollendamve, in quocunque Vomitu Sanguinis ab aliis medicis prefcribi folitis abftinere, fatius duxi, quàm iis propinatis, ad effectum à curatione per gelidiffimas potiones jàm profperè inceptum perficiendum vires adhibere videri, ejufmodi quam frigidifimarum Cruorem cogentium forbitionum viribus planè atque omninò contrarias.

Atque hac quidem ratione medendi Ægrotantem ad defperationem redactum ex graviffimi, \& periculofiffima, de qua hactenus retuli, valetudine, liberavi: cui in eundem morbum deinceps relabatur, Sanguinis uncias feptem octove, tertio quartove quoque menfe mitti jubeo, plerumque ex brachiis, interdum ex hæmorrhoidibus. Iftiufmodi autem prefidii genere ad Sanguinis profufionem prohibendam utendi, caufa hæc eft. Splenis fcirrho fupra commemorato, Sanguinei ad eum attinentes Ductus magnoperè obftructo Sanguinis copiam, cui continendæ apti creati funt, profectò capere nequeunt; reliqui igitur corporis, \& quod confequitur, eò magis ventriculi ipfı lieni propinqui canales Sanguinem ducentes, quantitatem ejus naturali majorem contineant, neceffe eft : hique proptereà fic extrorfum trudi, ac dilatari poterunt, ut Sanguini continenter ex ipfis manare conanti patefiant ; ficuti plerumque contingit in maribus, foeminifque, quibus Sanguinis fputa, vomitus, aut ejus ex naribus profluvia propter
infignes vaforum vel infimi ventris obftructiones fiunt. Sed in lienofis prefertim copiofas, \& immodicas Sanguinis fufque deque rejectiones vidiffe fe narrat Jo. Riolanus; hiftoriafque ex Hippocrate, \& Valverda affert eorum, qui Sanguinis Vomitu ex turgente Iplene interiêre. Id ergò malum ne accideret, præcavendum mihi exiftimabam repetita Sanguineæ materix detractione. Et quoniam Sanguinis in fuos Ductus impetus velocitatis quoque incremento augeri poteft ; ob hoc, \& aqux frigidæ potum vini loco, \& abftinentiam à venatione, curfu, aliifque ejufcemodi Cruoris motum vehementer accelerare potentibus imperavi, \& eventu fanè ad ultimum ufque menfem An. 1730 , profperimo

Nam eo anno poftridiè Calendas Decemb. in eundem Sanguinis Vomitum noctu relabitur. Ad eum vifendum protinus accitus; quandoquidem libram unam tantummodò, alteramve Sanguinis evomuerat, \& plenitudinem boni adeffe Cruoris videbam: quanquam cruenta Vomitio continuabat, \& Arterix fub ea penè ex toto fubmittebant fefe; nihilominus tamen Sanguinis uncias circiter 10, ad eum à ventriculi fanguiferis vafis avertendum ex vena in lavo brachio fecta, nulla interpofita mora, mitti jubeo; indè liquidi Helmontii Laudani guttas 15,18 ve ex pimpinellæ minoris aquæ unciis quatuor fumendas præfcribo ; atque hujufmodi remedium fomni inducendi, \& cruoris velocitatis retardandæ caufa in ufum vocatum, ter, quaterve, quòd Sanguinis Vomitu redeunte rejiciebatur, ea nocte ad propofitum mihi finem confequendum repetere coactus fum.

Vomitus vix horas duas fub hifce auxiliis conquievit : eo autem femel, iterumque reverfo, ex hæmorrhoidibus quoque Sanguinem ad uncias circiter quatuor educi præcipio, eodemque tempore ad quam gelidiffimas, quæ aliàs feliciffimè cefferant, optimèque nunc refpondent in quadam Virgine profufifimò Cruoris ex uteri vaforum oppillationibus Vomitu ferè exinanita, forbitiones devenio: \& primùm quidem ad Cbioccolatte, tùm horis circiter quatuor exactis ad alios conglaciatos liquores, quos Sorbetti ex Spumiglia, \& Pappina, vernacula Lingua hîc appellant. Ex cujufmodi artificiali gelu concretis liquidis, nempè modò ex uno, modò ex altero ad coercendum Vomitum, virefque reficiendas non multum quidem, ne ventriculum morbo folutum oneraret, fed fæpe Eger fermè exanimis deguftabat. Hujufmodi per fummè gelidas forbitiones curandi ratione, Cruoris maximè gaftricis Arteriis ac Venis contenti motum valentiflimè refrenare potente, obtinui, ut Vomitus ad infequentem ufque diem quieverit; in quo bis reverfus, iifdem quam gelidiffimis potionibus pertinaciter tertia, quartave quaque hora repetitis iterùm compreffus eft.

Tertio mali die, Sanguinem quidem, at non in multa copia, Nobiliffimo Ægrotanti denuò circa vefperam vomenti catapotia auri bracteis obvoluta, ad accerfendum Somnum, \& ad Cordis atque arteriarum coagitationes preternaturales compefcendas, devoranda ex aquæ Tormentillæ herbæ fucci unciis 3 dedi, quæ recipiebant perfici Pbilonii grana 30 , tofti Opii $Э$ ß. Hxc autem adeò refponderunt, ut, \&t

Vomitus protinus fedatus fit, \& longiufculus fomnus noctu accefferit. Dum hæc adverfus Sanguinis Vomicionem gerebantur, alvus lacte, butyro, faccharo, ac ovi vitellis commiftis, $\&$ in inferiores partes infufis, fecundo, tertiove die ad nigrum Sanguinem ex ventriculo ad inteftina fub bilis atræ fpecie jam quoque delapfum evacuandum ducebatur ; aquaque pratereà ex Millefolii fucco, in qua Cotoneum malum parumper ebullierat, glacie gelidifima reddita ad ftomachum aftu fuo languidum erigendum, ad Ductus Sanguinem in eum importantes confirmandos, \&s ad fitim, quæ die tertio urgere cœepit, moderandam fxpius die, ac nocte, parcè tamen, ne Stomachus ipfe tunc multum admodum infirmus ad refiftendum obduretur, potui dabatur.

Dies $12^{\circ}$ frigidifimam hanc, tenuiffimamque victus rationem, fub qua flatus quamplurimi per inferiora maximo cum crepitu defcendebant, fatis feliciter adhibui: poft quod tempus, quum de ventriculi diftendente dolore Ægrotus (quòd præmemorata glaciali aqua ad depellendam, qua continuò ardebat, fitim abufus effet) graviffimè quereretur, illam dimifi ; atque in ipfius locum fubftitui victum paulo pleniorem ex calidis gallinaceorum pullorum jufculis, in quibus recentis ovi vitellus cum permodica fucci ex Limonio malo portione folutus erat. Quæ jufcula bis in die hauriebantur, interpofita fummis matutinis temporibus benè calida ex Cbioccolatte forbitione, cui frigidæ aquæ potio, tùm ventriculi refrigerandi, tùm importunæ fitis elidendæ ergò præmittebatur. Adverfus autem iftiufmodi permoleftam fomachi diftentionern præter calentes forbitiones, catapotia quoque modò propofita inordinatos nervorum, \& animalium Spirituum motus componendi virtute prædita propinavi.

Die $14^{\circ}$ dolor, \& tumor ponè finiftram aurem ad inferioris mandibulæ medium, \& amplus fefe exporrigens, pofteaquam caput proximè antecedentibus diebus leviter doluerat, extemplò fuboritur ; eodemque tempore febris, quæ alioqui continens quidem, fed nequaquam ingens erat cum levi frigore, \& aliqua mentis turbatione intenditur. Contra quem dolorem calida, humidaque fomenta ex Vaccini lactis, \& Aqua fimplicis, in quibus Sambuci flores decocti erant, partibus equalibus, fpongiis admotis fæpè repetenda præfcribo : per qux humoris parotidam efficientis coitus intrà 8 dies ferè ex toto folutus eft. Poit quod tempus febricula circà noctem paulum increfcens, mane fe remittens continuabat; Æger fiti non adeò cruciabatur, frigidam Nucerinam aquam potabat; interdiu vigilabat, noctu conquiefcebat ; calidis, quas dixi, forbitionibus reficiabatur, \&e inrerdûm ptifana quoque ex Oryza utebatur. Natura vel dum benè valebat ructuofus, aliquando conquerebatur de quibufdam (ut iple aiebat) acidis ventriculum irritantibus, pituitæ, \& nonnunquam alimentorum rejectum moventibus: adverfus qua Abfinthii tinctura femel die circà meridiem, fæpiùs frigida aqua ex Nucerino Fonte buc importata haud improfpere pugnabam; atque interdùm remediò
perfici Pbilonii, \& tofti Opii ; interdùm quam gelidiffima ex lacte, \&t faccharo, gelu artificiosè concretis, forbitione ad crebrò ructantem, calidifque fermentationibus (quod ut facilè credam, haud leves funt caufæ) commotum ftomachum componendum profpero fucceffu, noctu utebar.

Circà diem quadragefimum aquofi humoris Vomitus decebat; Arteriæ naturaliter ordinatæ erant ; venter quotidiè fatis ; copiofam verò urinam vefica reddebat; $\&$ vires, ac ciborum appetentia accedebant fic, ut valentiorem cibum, frigidum videlicèt ex cervino cornu, \& vitulinis pedibus gluten Convalefcenti paulo antequam nutrientia jufcula fupra commemorata forberet, quotidiè ter oporteret offerre. Ab ejufmodi alimenti Genere primum ad Oryzam in capi jurculo coctam, \& gallinacea jecinora elixa ; indè ad tenerarum Gallinarum, Vitulorum, Coturnicumque carnes tranfiit: edullo ex Vaccino lacte, recentis ovi vitello, \& tantilla facchari portione, ad cochlearium unum, aut alterum commanducato, alvi movendæ gratia. Atque in prefentia fanus eft, $\&$ bene valet.

Propofitum Sanguinis Vomitum per conglaciatas quas recenfui for- Animadverfio. bitiones fupprimendi rationem, quam folidiffimis ratiocinationibus effe innixam, demonftratu haud ità difficile eft. Primùm namque fanguiferi ductus Sanguinem in ventriculi cavum fivè rapturâ, five erofione, fivè raritudine propriarum tunicarum, fivè orum fuorum, aperturâ profundentes, glacialis ejufmodi congelatarum celeriter in ventriculum defluentium potionum frigoris vi, nulla re interpofita tacti, quafique perufti, quàm citifimè, validifimèque fieri poteft, corrugantur ; tùm Sanguis his ipfis Ductibus contentus vehementifLimè cogitur, atque in majores canales repellitur ; deindè toto corpore ob idem gelidiffimum frigus inhorrefcente, reliquum Sanguinis in fuis motibus lationis, \& agitationis multum admodum retardatur, ac pro in ejus impetus ex Cordis, \& Arteriarum pulfus velocitate enafcens, arterioforum, venoforumque canalium extremis orificiis patefaciendis peropportunus notabiliter imminuitur ; pofteà illæ ipfr quam gelidiffimæ potiones ex fatis nutrientibus maffulis coagmentata per notiffimas chyli vias Sanguinis alveos influentes refidui Cruoris particulas, congregando abfque ullo impetu reficiunt. Quum igitur, quam expono, adversùs Sanguinis Vomitum pugnandi ratio, \& ventriculi vomendi conatus cohibere, \& Sanguinem filtere pluribus de nominibus valeat; fubveniendique infuper, \& promptè quidem imbecillitati egrotantis fufficienti virtute polleat : ecquis Saniorum faltem Medentium jam eft, qui eam \& maximè rationalem, \& efficacifimarum in Cruorem vomentibus virium effe, non fateatur?

Bartholini de Nivis ufu Medico libellum nuperrimis diebus quum evolverem, inveni non Abenfinam modo potionem nive refrigeratam in calidis ventriculi paffionibus imperare, fed \& Galenum. Hic, codem referente Bartholino, Senecam, Soluum Eु afu fuo languidum

## Vomiting of Blood, \&c.

fomachum perurente frigore erigendum effe, in Naturalibus quæftionibus fcribentem fortaffe fecutus: in ventriculo curando refrigerationem fibi proponit per aquam, cibos, fructus nive refrigeratos. * $V i$ diffi, inquit, E tu quoddam uno die, vel potius bora, frigida potione levatos; quorum aliis non aquam modo dedi fontanam recentem, fed etiam quce nive efet refrigerata, veluti Roma praparare folent: cibos praterea ad eundem modum refrigeratos identidem me illis permittere vidifi : iifdem dedi, EO ptifanam probè coetam pari ratione refrigeratam, aliaque id genus fexcenta.

Præter Abenfinam, \&t Galenum, Rhafem quoque Zacutum, Amatumque Lufitanos, Lud. Septalium, Laz. Riverium, atque alios, qui ad percalidum ventriculum multùm infrigidandum, colicofque ex calidis, ac biliofis humoribus coortos dolores depellendos cibo, \& potu gelidio, \& frigida aqua in linteolis ventri impofita ufi funt, adducit idem Bartholinus qui autem Sanguinis rejectiones, effluentiafve ex quacunque corporis noftri parte, potionibus nive, vel glacie, quam frigidiffimis redditis; aut alius generis gelidiffimis forbitionibus curarint, profert neminem. Quod ad me attinet: conglaciatos ex melonum feminum cremore, \& modico Saccharo liquores parca manu circà primum vefperum oblatos fatis fæliciter hifce frigidiffimis diebus expertus fum in juvenilis ætatis, \& fervidæ temperiei Moniali; quæ ventriculi nervorum fafmo ab vehementi moeftitia ortum ducente, lævumque ejus orificium ità conftringente, ut, \& gravem, fufpiriofamque refpirationem efficeret, \& cùm efculentorum, tùm potulentorum vel parciffimè affumptorum defcenfum penè ex toto prohiberet, graviter vexabatur.

Hippocrates, quanquam frigida, veluti nivem, $\xi^{3}$ glaciem Sanguinis Eruptiones inducere, fcribit Aphor. Sect. V. Aph. 24. nihilo tamen fecius Aphor. 23. afferit : in bis frigida uti oportere, unde fanguis eruptus, aut erupturus eft, छ quidem circà ipfas partes, unde fluit. Memini, me fex circiter abhinc annis, Sanguinis ingens ex utero profuvium, communibus medicamentis, \& ne perfrigida quidem aqua quicquam proficientibus, promptiffimè in Matrona, media æflate fuppreffiffe, perurente glacie genibus, \& cruribus fuper impofita, cruralibus, \& quod confequitur, iliacis, aliifque in uterum definentibus Arteriis, ac Venis maximopere coarctatis, repreffoque proptereà, ac veluti $a b$ confuetis viis interclufo Sanguine.

Verumtamen, tametfi quam gelidiffimas, forbitiones adversùs cujufquemodi profluvia Sanguinis, \& maximè ex ventriculo, ab immodico Sanguinei amnis fervore, \& accelerato motu enata, aut cum his conjuncta, \&z in juvenibus potiffinùm, quibus cruor, \& fomachus exæftuat, magnoperè collaudo: non ideò tamen fuadere aufim, ut illæ ipłe conglaciatæ forbitiones mulieribus Sanguinem ex partu vomentibus, aut frigidis ventriculi, atque inteftinorum fermentationi-

[^4]bus obnoxiis fine ullo difcrimine propinentur. In Sanguinis ex partu vomitionibus : uti neque multa calida aqua lavarem, neque tepefacioria (quemadmodum Hippocrates tùm in libro de Morbis Muliebribus, tùm in eo, quem de Natura Muliebri infcripfit, indifcriminatim precipit) tàm facilè adhiberem; fic afininum, \&e vaccinum lac $a b$ eodem Hippocrate iis in cafibus prafcriptum haud quaquam planè damnarem. Sanguinem, inquam, ex lochiorum fuppreffione, aut imminutione evomentibus; primum venas in pedibus fecari ad Sanguinem à ventriculo revocandum ; tùm calidis fomentis ex aqua, \& albo vino, in quibus emollientes, aperientefque herbæ ebullierint, hypogaftricam regionem frequentiflimè foveri, cruraque, \& pedes eodem tempore mulca calida aqua lavari, juberem ad uteri vafa referanda; indè ad lac, humectandæ \& reficiendæ fanguineæ maffæ caufa, tranfirem. Sin verò mulieri fanguinem vomendo rejicienti puerperii purgationes naturaliter fluerent, non calidis fotibus, \& lavacris, fed remediis Sanguinis impetum fedantibus, ejus calorem cogendo moderantibus, confirmantibufque vafa ventriculi, ad fingulas circumftantes res attentè refpiciendo, cruentum vomitum fupprimere pertentarem. Eo autem comprefo ad lacteam diætam, vel hac non conferente, ad reficientes portiones ex Cbioccolatte, nutrientibus gallinaceorum pullorum, ranarum, terreftriumve teftudinum jufculis, atque horum fimilibus devenirem.
VII. Vir annorum 24 caftra fecutus, anno 1706, ab inflicto in fini- Part of the ftro hypochondrio vulnere, per hos 14 annos magnam portionem in- Colon banging teftini coli,ictu hoc fecti atque inverfi, fpithamæ magnitudine è corpore prominentem gerit.

Inteftinum hoc, per vulnus in illud fimul penetrans, egreffum, in. Vater, M. D. teriorem fuperficiem ad exteriora vertit, \& ita in medio cohærens du- No.366. p. 89. as portiones efformat quarum altera verfus fuperiora extenfa orificium monftrat, quod ad inteftina tenuia fpectat, \& fæces alvinas educit; altera vero portio ad inferiora propendens orificium ad rectum apertum ita habet, ut Clyfterem injectum per anum reddat. In interiorl fu= perficie, nunc ad extra vergente, glandule apparent copiofifime, albi ac cinerei coloris, verrucarum inftar eminentes, \& jucundiffinum fpectaculum exhibentes, quæ inclementius tact: fanguinem fundunt. Inteftinum ita prominens nunquam totum regreditur intra abdomen ventriculo tamen vacuo quodammodo regreditur, illo autem pleno longius protruditur, imprimis fpiritu retento. Utitur vir ille aqua gelidifima, imo glacie ac nive permifta, ad abftergendas fordes, fine ullo incommodi fenfu; fert etiam inteltinum aërem frigidifimum; ab eodem tamen intra fe retrahitur $\&$ indurefcit, ac quodammodo pallefcit. Cibos omnis generis perferre poteft ifte, fructus tamen recentes \& olera cibis reliquis non mifcentur, fed indigefta exeunt, quemadmodum \& jufcula fine folidis cibis affumpta.

ABCD. Inteftinum colon inverfum, ex vulnere prominens, \& Fig. \&r. verfus fuperiora \& inferiora porrectum. a. Orificium fuperius ad in-

V O L. VII. Part iii.

## A large Umbilical Rupture.

teflina tenuia patens, per quod exeunt fæces alvinæ. b. Orificium inferius, quod ducit ad rectum, \& Clyfterem per idem infufum per anum reddit. $c, d$. Veftigia vulneris à Chirurgo ampliati; per cujus medium adhuc apertum inteftinum prominet. e. Umbilicus. $f, f, f$. Glandulx copiofifima. g. Regio inguinalis. $b, b$. Dorfum. i. Coxendix. K. Regio Lumbaris.

Alarge Umbilical Rupture; by John Ranby, E/q; F.R.S. No. 421. P. 221.
VIII. About fix Years ago, a Man gave his Wife a Kick on the Belly; and from that Time the complained of Pain, and a Swelling about the Navel, which in Time encreafed to about the Size of a Man's Head, feidom giving her any Uneafinefs but by it's Weight; and that chiefly when her Bandage was off, which the generally wore, except when her Diet, or any other Accident, brought on a Diarrbaa, which was always attended with Cholic Pains, particularly in the Rupture ; to eafe which, fhe had been advifed to iron it with a hot Iron, and had thereby fo often burnt it, that there remained on the Skin feveral large Cicatrix's. Three Days before her Death fhe was taken with the Diarrbaa, attended with a night Fever.

On opening the Bag, the Cawl firft prefented, the greateft Part whereof adhered to the Peritonaum: On removing this, the Small Guts, to the Length of two Ells and a half, were contained in this Bag, together with all the Colon, except fo much of it as is below the left Kidney; and the beginning of the Colon, with the Cacum, were attached to the Mefentery, in fuch a Manner, as to be but two Inches diftant from the Pylorus; which, with about one Third of the Stomach, was by this Meanis drawn into the Bag. The Beginning of the Duodenum juft entered the Bag, and then returned out again; which, with but a fmall Portion of the 耳ejunum, was the chief that remained in the Abdomen.
IX. Dec. 18th 1730, a Child was born with the greateft Part of the Bowels hanging out of the Belly, by an Aperture about half an Inch in Diameter on the Right Side of the Navel String. The Birth was natural and eafy.

Being called, I found the Aperture lined with a Skin, and a Li gament that oppofed the Reduction; the Parts livid, and tending to Mortification; yet the Child lived near three Days.

Upon opening, I found the Prolapfus to confift of all the fmall Guts, except the Duodenum, and of all the large ones, except of a fmall Portion of the Reclum; the Gall-Bladder was about two Inches long, one half of which ftood out of the Abdomen, and a fmall Portion of the Stomach: All thefe were fo coalefced together, and confounded, that it was impoffible to feparate them; though upon blowing, the Inteftinal Pipe feemed to have it's ufual Length. The Liver was much thicker and larger than ufual, and convex in that Part of it, that is naturally concave: And the Uterus and Bladder preffed on the left Side, by the Weight of the Bowels prefling on the Right.


The Mother could afcribe no Caufe for this præter-natural Formation. The Child came at full Term, but it's Inquietudes for fome Months before the Birth, made the Mother apprehend he was not well. Saving this, nothing extraordinary appeared.
X. Vir quidam quadragenarius, biliofus, fcorbuticus, diu mul- $A$ firgular tumque Colicis quiburdam doloribus, inferiorem praecipue Abdominis regionem infeftantibus, laboraverat, flatu porro perpetuo $\&$ molefto. His biennium circiter, aut triennium ante mortem, ac- N cefsêre dejectiones biliofae, purulentae, foetidiffimae cum ftrigmen- p. 236. tis faepe mucofis, faepe fanguineis; ita frequentes infuper, ut perfaepe intra tres, quatuorve horas Alvus vel vicies folveretur, perfiftente ufque Tenefmo : tandem quoque prodiêre. Carunculae fungofae, lividae, tetrae, quarum aliquae magnitudinis faltem nucis myrifticae. At vero utcunque alvus citiffime aegrotum plerunque exercebat ; nonnunquam tamen, morbo prefertim ingruente, foret adffricta valde cum horrendo tormento, nec nifi clyftere ducta, aut catharticis irritata relponderet. Subinde interea quafi Famelicus oblata quaecunque voraret; fubinde ne quidem Delicatula, vel ad Dapes exquificiffimas naufeanti, placerent: Aeger autem indies emacuit. Fuit illi urina parcior \& femper biliofa: Color vultûs luridus, faepe fubflavus. Tam dira, tam longa mala infracto admodum fortique plane animo pertulit, donec fupervenerunt demum Tumor pedum Oedematofus, Delirium, facies Hippocratica, fudor frigidus \& oleofus, certa mortis prae* nuncia.

Varia fuerunt à variis praefripta medicamina iifque utique in arte exercitatiffimis celeberrimifque viris; ex Ipecacuana : fcilicet Emetica, ftomacbica, deobftruentia, glutinantia; balfamica, adftringentia Clyjmata multifaria, omnigena, incaffum omnia, ni quod Laudanum, ad breve tempus, foret maifero Solamen. Quid Aq; Briftol. \& Bath. Spadana \& Pyrmont. quid obftinata, quid accuratiffima è Lacte \& Vegetabili Diaeta potuerint inani omnino opera experiebatur ; utut perbreves aliquot dies paululum aliquando recreatus videretur.

Aperto abdomine perfpeximus Omentum confumptum plane \& putridum, Hepar praetumidum \& Scbirrofis Tuberculis, fubalbidis, duris, refertum ; Veficulam felleam Bile fubnigra femiplenam ; totum Duodenum cum vicina Coli parte eodem Colore perfufum: Pancreas maxime fchirrofum: mediam Hei partem ad quinque fere digitos inflammatam \& ferme lividam Renes erant fani fatis, nec Glandulae mefentericae aeque fcbirrofae ac expectâflemus. At quod maxime notandum pars Coli Inteftini fuprema, quam veteres Coecum nominârunt perperam (cum id potius ejufdem Appendici, ab iifdem ita nominatae, conveniat) in hocce Cadavere non, quod affolet, Reni dextro, feu potius internae Peritonaei Laminae Renem contegenti, adnexa fuit, mediante Appendice vermiculari; fed in Pelvim delapfa tres circiter infra Tulpii Valvulam digitos cum fuperiore parte Inteftini recti firmiffime concreverat: Porro levius adhaefit Peritonaei Tunicae fuper Ve-
ficam urinariam expanfae, furfum inde reflexa, faciens cum fuperiore Inteftini parte (fi ita dicam) angulum valde acutum fub cavo dein Hepatis afcendens \& infra ventriculi fundum porrecta defcendebat more folito \& in Rectum definebat. Cum primum autem notavimus ambo Inteftina \& fupra infraque adhaefionem Gangraena affecta effe, fufpicantes hic latuiffe fundamenta malorum, caute admodum lentaeque proceflimus Scalpello imprimis aperiendo Rectum Inteftinum, quod ubi factum, vidimus internam Tunicam Spbacelatam omnino nigram quafi Atramento imbutam \& maxime putidam; huic porro adhaerentes fex, feptemve Carunculas fubnigras, fungofas, quarum minores magnitudine nucem avellanam aequabant. Perfcrutantes ulterius, Ulcus percepimus ex hoc Inteftino in Colon, ubi cohaerebant penetrans, Digito mediocri facile patens: Inteftina vero adeo putrida, ut vix tactumi ferrent leviorem. Majorem Coli partem excrementis induratis obfervavimus infarctam, etfi plures liquidas Alvi dejectiones habuit, paulo ante mortem; tenuioribus nempe directe in Inteftinum rectum per ulceratum orificium tranfeuntibus; folidioribus autem in Colo reftantibus. Vefica urinaria fuit flaccida valde, intufque muco fubrufo oblita.

En fiuam utique, licet minus elegantem morbi Hiftoriam! En quid incifo Corpore perfpectum! Ex quibus conjectura haud difficilis, quae fuit Caufa morbi : Ex Anatomicis enim notum eft, quod Concretio Inteftinorum inter fe aut cum Peritonaeo, motum periftalticum minuit maxime. Vid. Cowperi Anatomiam Explic. Tab. 340 Unde ad Locum Conglutinationis tarda admodum debilifque Excrementorum Impulfio, corundem Congeftio, Remora fequentibus; forte duris \& acutis laedentibus, qualia Offa Prunorum deglutita, aut tale quid; forte acribus \& biliofis Humoribus non fatis valide motu vermiculari propulfis, fed ad Angulum Coli acutum fubfiftentibus; exinde aut Inteftini Inflammatio, aut Corrofio, Ulcus denique fequebantur ; tandemque, in Homine valde Cachectico, Gangraena.

Avaf Omentum ; by the farze. No 382 p. 60 .
XI. Veterani cujufdam Militis uxor dolore colico \& vomitu diu laboraverat, quibus fupervenit ventris tumor durus, qui auctus indies magnam in molem excrevit. Jam evomuntur omnia, bilis atra, fincera, tandem \& ipfae foeces alvinae. Dolor vero perfaepe immanis in finiftro praefertim hypochondrio, fotus, cathartica, enemata, anodyna, plurima a Pharmacopoeio adhibentur ; incaflum omnia; permanet dolor, increflit ufque tumor, digitorum preffui haud magis cedens quam fi lignum fuiffet. Ex hocce tumore plura quafi tubera enata funt, quorum unum alterumve caput puerile, alia pugnum virilem, magnitudine aequabant : eminebat autem maximum in finiftro hypochondrio, ubi gravifimum perfenfit dolorem, ita ut faepius exelamaverit fe voluiffe tumorem ibidem loci fore perfoffum. Increfcente tumore facta eft valde dyfpnoica. Tanta tamque atrocia per menfes fere 14 perpeffa fuerat mulier, cum tandem grata venit morborum requies, mors.

Nudato cadavere montofum obfervavimus ventrem; reliquum vero corpus fumma macie confectum. Secto abdomine in confpectum fe dedit ingens quafi febi maffa (nifi quod colore fuit minus alba) totum ventris cavum adimplens, ita ut nec ventriculus, nec jecur, neque inteftina apparerent ulla; adhaeferat enim omentum hoc enorme peritonaeo pluribus in locis, in utroque praefertim hypochondrio, ubi \& latior \& firmior fuit cohaerentia. Secto autem in modum crucis peritonæo, \& ab omento feparato, confpeximus illum in pelvim fere detrufum, omentum etiam toti jecinoris cavo annexum, ventriculum hac mole oppreflum, uti \& duodenum, colon \& jejunum : cum adipofo renum involucro (finiftro praecipue) connexum \& quafi confufuna fuit; adeo ut colon, altius paulo quam in rectum definit, febo hocce concreto fuit penitus involutum, hinc foecibus praeclufum iter, hinc dolores ilil faeviffimi, quibus ante mortem excruciata fuerat mulier: \& ut hic obiter notem, per plures dies ante mortem nec fua fponte nec vel clyfmatibus acerrimis irritata alvus foeces dejecerat ullas.

His luftratis ingens feparavimus omentum à jecore, ventriculo, fchirrofo pancreate, inteftinis, tandem \& à mefenterio, \& ab interna peritonaei lamina renibus inftrata. Splen fuit hac maffa quodam modo demerfus, contractior \& quafi coriaceus.

Pendebat omentum hocce Hb xvi $\frac{1}{2}$ Avoird. nec tamen abftulimus unam faltem alteramve libram partibus adhaerentem. Pondus hercle maximum! Si confideramus ex obefiore homine omentum vix libras pendere tres, majus certe inveni antehac nunquam, quanquam \& fecui \& diffexta vidi plurima hominum cadavera. Fateor equidem longe majus à Gregorio Horfio in fuis obfervat. memoratum fuiffe, majus etiam in Ephemerid. German. ann. x. veruntamen hoc quoque noftrum monftris annumerari merito debet.

Hujus \& in extima parte, nec non in interiore fubftantia, plura obfervavi vafa fanguinea, eaque certe maxime dilata, quorum aliqua penna anferina majora, aliqua vero quafi in aneurifmatibus terminantia. Ex horum aneurifmatum (fi ita dicam) maximo uncias circiter fex nigricantis fanguinis extraxi cum quibufdam grumis albidioribus; anne adipis particulae à venis epiploicis abforptae atque morbo congelatae?

Ex plurimis lobis conflari mihi videbatur maffa baecce, fibi invicem arcte haerentibus; aliquos tamen feparavi, quorum pauci pomo minori fuere magnitudine aequales, forma haud abfimiles. Media hujus pars, caetera durior, cultro haud facile cedebat.

In ifthoc cadavere fequentia etiam fuere obfervatu digniora. Inferior hepatis pars in fchirrum abierat. Ex vefica fellea plures exemi calculos, carbonem foffilem colore referentes, friabiles, aquam innatantes, quos bilem haud improprie nominares fplendidam; his quippe quum inerant plurimae particulae micantes, haud dubio falinae.

Mefenterii glandulae fuere fchirrofae, imo quaedam in fubftantiam pene lapideam induratae. Inteftina tenuia fuere inflammata, colon cum coeco fere totum gangrena correptum, ectiam proceffus ipfe vermicularis.

Ren uterque fuit fanus fatis: dexter autem emifit ureteres duos: cum vero renem diffecuiffem, percepi facile, quid effet in caufa, cur ureter hic fuit duplex. Renis enim pelvis fepto quodam fuit divifa, digitum tranfverfum craffo, ejufdem perfectè fubitantiae cum reliquo renis parenchymate. Hic fuit ren quafi duplex, cui duplex pelvis, ureterque duplex. Erant in imo abdomine feri fubcruenti librae quafi duae. Malum hoc immedicabile penitus vifum eft, nifí quis morbi principiis obfticiffet.
Stones voided XII. Thefe Stones were voided by a poor Woman, per Anum, on per Anum; the 26 th, 27 th, and 28 th of March 1723 ; who was then pregnant about the IIth or I2th Week, according to Computation. I was called in the Night on the 23d, when, in Appearance, fhe was in the Extremity of a Convulfion Fit, attended with violent Vomitings; on the ceafing of which, fhe complained of great Pain in her Back, from her Reins downward to the Anus; whereupon I blooded her, ordered fome Anti-Emetics, and left her: She continued with much Pain the whole Day; on the 24 th, in the Night, her Fits returned with double Force: her Pains allo increafing like unto Labour-Pains, pur me upon farther Enquiry, but nothing appeared more than ordinary: The Extremity of Pain drove me to the Ufe of Glyfters; which was attempted, but none could be thrown up, altho' repeated by fome of the moft experienced Nurfes ; upon which, I gave her a gencle Draught, which fhe obferved increafed her Pain with a ftrong Tenefmus, that continued near three Hours before the largeft Stone appeared; which ftopped at the upper Part A, D, Fig. 82, but was quickly removed by preffing the lower Protuberance C ; upon which, with a plentiful Difcharge, fhe had Eafe, flept fome Hours, waking with a Defire to Stool, and voided with it the 2 d and 3 d ; and the next Day, at four Hours diftance, the other two. She recovered perfectly, and was delivered of a very fine living Girl, on the 24th of Auguft paft. Upon Inquiry, it feems, the had been frequently troubled, for fourteen Years palt, with Pains in her Side and Stomach without Vomitings ; which is all fhe remembers.

The Largenefs of the Stones, their Seat and Subftance, is what to me feems worthy Speculation, they being all alike in Colour and Weight, according to their Dimenfions, is the Reafon I broke but one.

Wt. of the Stones. Their Dimenfions in Circumference.


Fig. 87. A Shell taken off the Stone at the End 2. The Stone and Fig. 87. Shell being like a Chefnut, foft, and like Wool, cutting into the Stone at 3 ; I found it hard.
XIII. An Apprentice to a Ship-Carpenter in Great Yarmouth, about $A$ Fork put $\equiv 2$ 19 Years of Age, had violent Pains in the lower Part of the Abdomen, tbe Anus, that for 6 or 7 Months: It did not appear to be any Species of the Cholic; he fometimes made bloody Urine, which induced me to believe it might be a Stone in the Bladder. He was very little re- out thro' the lieved by Phyfic: At length, a hard Tumour appeared in the left Mr. Robert Buttock, on or near the Glutcous Maximus, two or three Inches Payne, Surgeon from the Verge of the Anus, a little noping upwards, A fhort ${ }^{\text {at Loweftoff. }}$ time after he voided purulent Matter by the Anus, every. Day for fome Time: The Tumor broke: I fufpected a Fiftula in Ano, but could not get the Probe, by the Orifice of the Sore, into the Reitum. Shortly after, the Prongs of a Fork appeared thro' the Orifice of the Sore above half an Inch beyond the Skin, whereupon his violent Pains ceafed. I divided the Fleh between the Prongs, according to the beft of my Judgment ; and after that made a circular Incifion about the Prongs, and fo with a ftrong Pair of Pincers extracted it, not without great Difficulty, Handle and all entire: The End of the Handle was befmeared with the Excrement, when I drew it out : It is fix Inches and a half long, a large Pocket Fork; the Handle is Ivory, but is died of a very dark-brown Colour ; the Iron Part is very black and fmooth, but not rufty. He is likely to do well in a fhort Time; the Operation being performed the 11 th of Oizober laft. He would not own how it came, till a Relation of his, on whom, in a great meafure, his Dependance is, threatned never to look upon him more, unlefs he would give him an Account how it came: And he told him, that, being coftive, he put the Fork up his Fundament, thinking by that Means to help himfelf, but unfortunately nipt ūp fo far, that he could not recover it again. He fays he had no Trouble or Pain, till a Month, or more, after it was put up.
$\tau_{\text {roo }}$ มncommizon Cajes of $T_{H}$ mours of the Abdomen; by John Boecler, M. D. tranf: lated from the printed Buok in Latin, by W. Rutty, M.D.R.S. Secr. No. 405. p. 562 .
XIV. A Woman of Strafourgh, of 32 Years of Age, after an immature and hafty Labour, had her Belly grew gradually for ten Years together. During the whole Time of Geftation, fhe complained of farcely any other Symptom than the Weight and Heavinefs of her Belly ; only now and then of a tenfe Pain and Difficulty in Refpiration : She faid neverthelefs, that Flatufes would fometimes be difcharged from the Pudenda; and the more they were fo, the lefs Uneatinefs the perceived. The Menflrua were regular as to Time; but as to Quantity the did not explain herfelf: In the latter Months, towards her Death, fhe grew plainly cachectic. Her Countenance was cadaverous; her Breaft and upper Limbs perfectly emaciated; her Feet oedematous, and the Belly much more turgid and prominent than before; fo that at length fhe breathed with the utmont Difficulty, and upon taking any Nourifhment, complained of a great Straitnefs in her Cheft. Upon opening the Abdomen, two Days after her Death, fome Water flowed out, of a wheyifh Colour, tho' in what Quantity was not taken Notice of; but upon dividing the Uterus, a plentiful Quantity of a bloody Liquor iffued from it, together with feventy-two Mola of different Figures and Solidity, and chiefly of a black Colour. One only, the 76 th, was fixed to the lower Part of the right Side of the Uterus, contiguous to it's internal Orifice. Thefe folid Subftances weighed $6_{4}$ Ounces; as the Liquor alfo filled fifteen ancient Alface Meafures, fo that taken together, the whole weighed 80 Pounds A pothecaries Weight. The Skin of the Abdomen was very thin, and almoft tranfparent; the Navel perfectly obliterated; the Fat almoft entirely confumed; the Mufcles pale, flaccid, and very thin, and the Peritoncum in fome Places fo ftrongly attached to the Uterus, that it could not, without the utmof Difficulty, be torn from it. The Body of the Uterus, which is naturally thick, was extenuated to the fame Degree of Rarity and Tranfparency with that of the Cutis of the Abdomen, and of a furprifing Capacity. The Liver appeared pale, and fo flaccid that it might be eafily rubbed to pieces. The Height of the Belly from the Vertebræ of the Loins to the Navel meafured $1 \frac{1}{2}$ Foot ; it's Length from the Cartilago enfiformis to the Pudenda $2 \frac{1}{2}$ Feet; and it's Circumference at the Waift, 4 Feet $2 \frac{1}{2}$ Inches, tho' the Woman was naturally of a fmall Size and Stature.

A Maid-fervant in the fame City, of twenty-three Years of Age, from a Suppreffion of the Menfrua, had her Belly grow nowly for three Years, without any other notable Diforder ; till upon an accidental Fall, it increafed fo much in fix Days, as to obliterate the Navel; and not being capable of a farther Diftention, part of the Matter which caufed the Tumefaction, flowed down to the Legs and fwelled them likewife; which brought on a Difficulty of Breathing, a fmall, frequent, and uneafy Pulfe, with a total Lofs of Appetite. But what was more remarkable, the Syfole and Diafole of the Heart were plainly felt under the left Clavicle, the Heart being, upon Diffection,

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$$

fection, found thruft up to that Part of the Thorax. The Iqth Day from the Fall, a Diarrbaa came on, which killed her in a few Days. Upon making a fmall Incifion in the right Hypochondrium, there gufhed out from the Cavity a Liquor, in Colour, Confittence, and Froth, refembling well boiled Beer; which upon enlarging the Incifion, was followed by a foetid purulent Matter, with Portions of the putrified Caul, which Matter filled 56 Strafourgh Pints. Upon this, the Belly fubfided ; but: a large folid Subftance ftill remained under the containing Parts of the Abdomen. Opening therefore the whole Cavity, there was found under the left Groin a confiderable Tumour, nourifhed by it's proper Veffels, and every where fixed to the circumjacent Membranes; which being freed from, it weighed fix Pounds common Weight. This Tumour proved a Congeries of incyftated Abceffes (wrapt up in one common Covering) of different Sizes ; the largeft as big as a Man's two Fifts, the fmalleft the Size of an Egg; and each of a different Sort of Subftance: Befides which was a great Number of Hydatides. The Peritonaum was as thick as the Cutis ; the Caul almoft entirely deftroyed ; the Stomach natural, but perfectly empty; the Guts livid, very much thickened and vaftly inflated, and moreover connected preternaturally to each other by pecuLiar Membranes. The Liver ftrongly adhered to the right Hypocbondrium, and it's Coat parted from it's Parenchyma almoft fponcaneoufly. The left Kidney very near equalled the Spleen in Bulk, and the Pancreas was as hard as a Cartilage ; but the Uterus and Bladder were found in fatu fano. The Cavity of the Thorax was much fmaller than ufual, from the Contents of the Abdomen preffing up the Diaphragm into it ; in which Cavity alfo was found the fame Sort of bloody putrid Liquor, as likewife in the Pericardium. The right Ventricle of the Heart was preternaturally foft and flaccid, and being opened, was lined with Hydatides. The upper Parts of the Body were emaciated; the lower much tumefied by the Water contained within them.
XV. Rhedarius Baronis de Penterrider, aetatis 58 annorum, Tem- Agreat Nimperamenti fic dicti Cholerico Phlegmatici, Staturae quadratae, non obefus fed robuftus, bene appetens, officio fuo bene fungens, nec vino, nec liquoribus fpirituolis immoderatè utens, bono fatis Regimine vivens Augufti Menfe 1721, auxilium meum petiit, pro Abdomine fortiter tumente \& tenfo, Afcitico minimè abfimili, urinâ attamen bonae notae $\&$ in quantitate fufficiente optimè prodeunte, pedum nulber of Hydatides found in tbe Abdomen: by Barthol. Anhorn ab Hartuils. No 370. p.17. lo oedemate comparente, Refpiratione liberrime procedente ventre autem in dies crefcente (qui Menfe Junio tumere incepit) fanguine in vafis hromorrhoidalibus flagnante, nodos ibidem magnos elevante \& interdum dolorificè furente, Appetitu ac Viribus nunquam pro. ftratis.

Fateor Aenigma mihi fuiffe an Tumor fit ficcus humidufne? Ad fatisfaciendum verò Indicationibus, in fpecie haemorrhoidibus fupprefis,

V O L. VII. Part iii. medicamenta fluxus haemorrhoidum mox excitatus, dolores fedati, \& magna fordium quantitas cum aliquali levamine per tubulum inteftinalem fuit eliminata. Poftea ad exemplum Etmulleri in hydrope ficco, Nitr. praeparat. quotidie ad $亏$ ßS. item Mercurium vitae \& omnis generis Diuretica mitiora, fortiora, \&c. ominia incaffum dedi.

Abhinc Aeger fub fanitatis recuperandae, fpe, pro more Vulgi auxilium Empiricorum imploravit, qui ftatim Aureos ipfi montes promiferunt, multifque faginatum Arcanis miferum in malis deferuerunt.

Abdomine igitur mole fuâ maximè urgente, ad Paracentefin fine morâ progrediendum erat; quam die 14 Jan. Chirurgus unanimi noftro confenfu adminiftravit; contenta verò confiftentiam gelatinofam nacta per anguftius Cannulae immiffae fpatium exire non poterant. Incifio ergo cum Lancetta facienda erat; quâ factâ, materia gelatinofa coloris grifei \& lutei, albumine ovorum fpiffior, cum magna quantitate globulorum alborum fphaericorum, triangularium, vermicularium, gemellorum, tefticuli, \& ovarii-formium, \&c. magnitudinem nucis avellanae adaequantium primo die ad menfuras fex evacuata erat, aegro quantum ad vires optimè fe habente. Poftero die, cum facile judicare licebat, factam incifionem non fatis effe amplam pro exitu majoribus hujus naturae globulis concedendo, Lancettâ igitur vulnus ampliabatur, per quod globuli ovum Columbinum magnitudine fuperantes magno numero cum fex iterum gelatinae menfuris, \& magno frufto maffae cujufdam albae portionem omenti referentis, de novo excreti erant. Cui Maffae plures dictorum globulorum filamentis fibrofis adhaerefcebant.

In examinatione materiarum, gelatina fuper carbonum ignem indurefcit \&z albefcit, pelliculâ defuper fe formante.

Spiritu Vitrioli, Spir. Sal. Ammon. vol. Ol. Tart. per deliq. Spir. Vin. rectif. Aceto affufis, maniferti nihil videtur, quằm levis induratio materiae ab uno quoque iftorum liquorum, etfí naturâ inter fe invicem contrariorum.

Globuli coloris funt albifimi, fenfui tactûs refiftentes; rupti liquorem album chylo fimilem fundunt, membranâ feu pelliculâ manifeftâ cineti.

Maffa ifta albicans quae portionem omenti refert, etfi craffitie pollicem adaequet, fubftantiam purè membranaceam habet.

Numerus globulorum majorum \& minorum ad feptem vel octo millia fe extendit.

Hodie qui eft inclufivè decimus fextus $a b$ operatione dies, aeger quàm optimè fe haber, venter eft mollis, planus, vulnus pulcherrimum, urina, pulfus, refpiratio bona, confequenter nulla febris, fomnus tranquillus. Evacuatio materiae gelatinofae durantibus 13 diebus fuit copiofa, inodora, nunc purè ferofa \& parca, fed fortem odorem fpirans,
fpirans, immifumque Catheterem argenteum nigricans, quod corporibus heterogeneis corruptis magis quàm vifceribus gangraenâ prehenfis attribuimus, quoniam febris abeft. Hodie poft injectionem Decocti ex Enula Campan. Agrimon. \& Mell. cum Tinctur. Aloes. Myrrh. \& Balfam. du Commandeur, rupti pellicula globuli fuit excreta, quem in ftatu fuo naturali ovum gallinaceum mole adaequâffe, forfan fu. perâffe, certum eft.

Appetitus \& vires nunc funt quae nobis faceffunt. Medicamenta porrigo Traumatica. Alexiteria \& Confortantia invicem combiñata juxta victum Analepticum.
XVI. Ever fince I was Anatomift and Surgeon enough, to reafon upon the Caufes of the Tedioufnefs and bad Succefs of the common Methods of Cutting for the Stone, I concluded that they were principally owing to the natural Structure and Situation of the Parts concerned. Therefore I began to confider why that Operation might not be performed the high Way, fo frequently mentioned by Authors, but never approved of by any, except the moft fagacious of all Sur-

An Account of the new Metbod of cutting for the Stone: by J. Douglas,
Surgeon, F. R. S. No 371. p. 83. geons, Fr. Rolfetus, who has certainly been very little read, or elfe very ill underftood, otherwife this Operation had not been fo long a Secret. After making fome Experiments on dead Bodies, I was convinced, that the Stone might be extracted that Way with a great deal lefs Trouble than commonly; and I was perfwaded that the Wound would heal again, by the great Number of authentic Inftances we have of accidental Wounds in the fame Place being fpeedily and firmly cured; and therefore I refolved to make the Experiment on the firt Pa tient I could meet with, which I could not procure till Decereber 1719; and then I proceeded as follows.

The Patient was placed flat on his Back, on a Table, with a Pillow under his Head; then his Wrifts and Ancles were faftened together, with Straps: Then I ordered one Affiftant to his Head, another to each of his Shoulders, two to the Penis, one of which was to manage the Ligature, and the other the Prepuce, and one to each Knee, to hold them as faft and firm as poffible. The Patient and Affiftants being thus placed, the Operation confifts of three Parts.
ift, In filling the Bladder, which is done thus: Pafs the Catbeter, Fig. 88, then draw out the Stillet, Fig. 89, then order the Ligature Fig. 88, 89. Affiftant to caft the Ligature, which is a Skein of Silk, round the $P_{c-}$ nis, above the Glans. Then fix the Key, Fig. 90, to the Head of the Fig. 90. Catbeter, Fig. 91, to keep it fteady, while you fcrew on the Syringe, Fig. 91. Fig. 92; then fcrew the fecond part of the Sucking-Pipe, Fig. 93, to Fig. 92, 93. the firft, Fig. 94. Then order the Penis Ligature to be ftraitened, Fig. 94. and the Prepuce Affiftant to gather the Prepuce up about the Catbeter, and to hold it as clofe as poffible. Then order the Water, being a little warmer than Milk, to be clapped under the Sucking Pipe, then draw up the Water into the Syringe, and thruif it into the Bladder at leifure, and repeat it till the Bladder is fo full, that you can per- obferve the Penis above, and the Prepuce below the Ligature, very much fwelled, and the Patient in a great deal of Pain) which is a certain Sign that there is enough injected ; then withdraw your Syringe and Catbeler together, taking particular Care that your Penis Afiiftants ftraiten their Gripe, left the Water fhould follow the Catbeter, which would undo all.

2dly, In making the Incifion, which is done thus: Order the Penis Adffants to turn the Penis towards the Anus, that fo their Hands may be the more out of the way; then take the firf Knife, Fig. 95, and cut at leifure, and with a feady Hand, from near the upper Part of the Tumour of the Bladder, or lower, according to the computed Bignefs of the Stone, down to the Os Pubis, and exactly in the middle; when you are got a little more than half way through the abdominal Mufcles, take the fecond Knife, Fig. $9^{6}$, clap it's Back on the middle of the Os Pubis, then run it's Point down towards the Sphincter, uncil you get into the Cavity of the Bladder, which is difcovered by iffuing out of the Water, then run your Knife along very quickly towards the Fund of Bladder, as far as is neceffary.

3 dly, In extracting the Stone, which is done thus: Before you withdraw your Knife, introduce the fore and middle Fingers of your left Hand, between the Knife and the Os Pubis, into the Bladder; then withdraw your Knife, and thruft the fore and middle Fingers of your right Hand into the Anus, and raife the Stone up towards the Wound, and fo you will eafily cateh hold of it, (tho' never fo fmall) with your Fingers which are in the Bladder; then draw it out with the fmalleft End foremoft: Then introduce your Fingers again, to fee if there are any more Stones, which are to be drawn out as before.

Then take a Needle and Thread, and make one Stitch thro' the Skin, in the middle of the Wound, and tie it pretty clofe, then undo the Straps and carry the Patient to Bed.

The Patient being put to bed, I laid a Pledget, armed with Balfam, over the Wound, and a bit offticking Plaitter over that. Then I embrocated all the Abdomen, Scrotum, and Penis, with warm Ol. Cbamamel. ; then I applied over the Drefling and all the Aidomen an Emollient Pultice, fpread almoft an Inch thick on foft Flannel ; then I turned a Swath a little broader than the Patient's Hand once round about him, and pinned it on the Pultice Cloth, juit tight enough to keep it on.

As foon as he was dreffed, I gave him an Opiate (for nothing is fo. proper as Reft) fuch as this; B, Aq. Cinnam. Hord. zij. Laud. Liq. Gulf. xv. Syr. de Mecon. 子ij, which may be increafed or diminifhed as: the Cafe requires.


## A new Method of Cutting for the Stone.

Next Evening I took off the Pultice and Dreffing, and cut the Stitch; then fomented the Wound and all the Abdomen with Stupes wrung out of $A q$. Calc. and frefh Urine, as warm as he could beaz it; then dreffed the Wound as before. Then I rubbed the Scrotum, Penis, and Groins, with Unguentun Album, to prevent their being fcalded by the Urine, which flows from the Wound.

The Wound muft be dreffed twice a Day at leaft, till you have a plentiful Digeftion.

After every Drefing, the Ointment and Oil was ufed, as before directed.

There is little Variation in the dreffing of the Wound, except what is common in others.

The Urine flows always thro' the Wound, until the Wound of the Bladder is cured; which is fooner or later according to the Conftitution of the Patient.

When the Urine begins to come the right way, it pains and fealds them much after the fame manner, as when they had the Stone (which is caufed by the Contraction of the Uretbra, that has been folong urelefs) but it never lafts above a Day or two, and then they may make Water with the fame Eafe and Freedom as any other Perfon.

They ought not to be forced to go to Stool under fix or feven Days, unfefs there is fome particular Reafon-for it, becaufe ftraining. to go to Stool injures the Wound.

They ought never to be taken up, except to get their Beds made, until the Urine comes all the right way, becaufe it makes them fick and faint; and confequently hinders the Cure of the Wound.

Cold is to be avoided as the Peft, becaufe it puts them to a great deal of Pain either to ftifie it, or to cough out.
N. B. If a fiexible Catbeter could be paffed, and kept in the Parfage without Pain, it would very much haften the Cure of the Wound.

I made this Operation the firt time on the 23d of December 1719, upon a Boy between fixteen and feventeen Years of Age, and in five Weeks time he was perfectly cured.

The Stone was of the Figure and Bignefs of Fig. 97.
I made the fecond Operation on the 12 th of May 1720, on a Boy of eight Years of Age , and in fix Weeks time he was perfectly cured.

The Stone was of the Figure and Bignefs of Fig. 98.
The third Patient was but three Years of Age, and was cut in Auguft 1720; but died of Convolfions about fifteen Hours after the Operation.
Fig. 99. Shews the Form and Bignefs of this Stone.
Fig: 9g:
The fourth Operation was made on the 23d of March 1720-21, apon a Boy fourteen Years of Age ; and in four Weeks afteswards he was perfectly cured.

## Obfervations upon diffecting

This Stone is reprefented in Fig. 100.
In this Patient I made a fmall Wound in the Periloncoum, through which I faw the Guts prefent, but I pufhed them back with my Finger, and then flitched the Skin; and we had no farther Inconveniency by it. Thefe three Patients have been already fhewed before the Society.

This Operation may be performed with equal Succefs on Females, when the Stone is large ; but if it is but fmall, the common way of extracting them is very good.

From all which I think I may fafely conclude in the Words of the inimitable Roffetus.

Poft bac nemini dubium effe debet, novam banc noftram Cyfotomiam, vetere illa tot dociifimorum Cbirurgorum Cyfotomia (tam periculosâ, ut eam aggredi vel ipfe Hippocrates Cbirurgôn Cbirurgotatos metuerit) EO leniorem \& tutiorem baberi.
XVII. 1. Mr William Bowen of Haverford-Weft, aged between 40

Obfervations upon diffecting the Body of a Perfontroubled with the Stone;
by Dr Perrot Williams. No 377. p. 326. and 50, having been, for about feven Years, feverely afflicted with the ufual Symptoms of the Stone in the Kidneys and Bladder, viz. bloody Urine after Exercife, Strangury, $\xi_{6}$ c. died in May 1722. His Body being opened, there were found in the Bladder fix fmooth oval Stones, exactly of the fame Figure, and nearly of the fame Magnitude: There were alfo three Cells in each Kidney, the Figure of each fuitable to that of the Stones: The Ureters were fo preternaturally extended, as very eafily to admit the largeft of the Stones to pafs from the Kidney to the Bladder. The Vifcera, $E_{c}$ c. appeared in their natural State.

- ByP. Hardif-
way, M.D. F. R.S. No.

377. P. 327.
378. Homo reptuaginta circiter annos natus, ventris dolore horrendo cultas, præ doloris atrociâ fefe erigere non poterat, fed mifere incurvatus, dies noctefque prope focum jacebat ejulans. Sexto morbi die, urinâ prorfus fupprefsầ, de dolorosầ circa Hypochondria ftricturâ, perinde ac a funibus circumjectis, querebatur, poftea de pondere quodam in veficâ molefto, quafi Rapi majoris, (fic aiebat) inibi hofpitantis. Omnibus in pejus ruentibus, die morbi duodecimo ad plures abiit. Cadavere aperto veficam fecuimus, quam ab ullis vel minimis calculi veftigiis immunem invenimus; in utroque autem rene (multâ aquâ refertis) repertus eft calculus, infignis, fcaber \& mulciplici ramo per parenchyma fe difpergens, quem integrum extrahere nullà arte potuiffes, nifi totâ prius fruftulation decerptâ carne. Ramorum maximus in ureteris caput fe infinuans, perbelle adeo id occupaverat, ut ampulla obturamento fuo arctius occludi vix poffet. Ulterius fcrutari nobis non licuir, ideo unum tantum addam, nempe, quod Omentum inftar falciæ anguftioris fub hepate retractum delitefcebat. Pauper erat \& corpore athletico, femper fanus, nifi quod a paucis annis, aliquando fabulofa per urinas excerneret.
379. Juvenis ftudiofus per duos annos Dyfuria frequenti laborans, per illud tempus ultra quinquaginta calculos excrevit, quorum plerique fine infigni dolore inter mingendum fecefferunt; quidam tamen corum reliquis majores, piforum majorum vel phafeolorum magnitudinum habentes, in urethra fubfiterunt, ac manu chirurgi comminuti aut fectione extracti fuerunt. Incidit hic fenfim in Marafmum totius corporis, ac urgente tuffi ficca \& Afthmate, accedente infuper tumore pedum œdematofo, tandem pridie ante mortem, lecto affixus, animam Creatori reddidit. Ad fectionem corporis defuncti accedentes, aperto Thorace pulmonem cum pericardio, diaphragmate $\& \tau$ coftis, hinc inde concretum, ac in dextro præprimis latere fcirthofum invenimus, in utroque prætereà ventriculo cordis, Polypos infignes, qui truncos vaforum occupaverant, \& proculdubiò Afthmatis atque infequentis fuffocationis, mortifque fubitaneæ precipua caufa fuerunt.

In abdomine hepar \& lien nullo manifefto vitio laboravant; inteftinum autem ileon fugillatum erat \& colon in toto fuo ambitu, à dextro inde latere, ubi hepati accumbit, una cum recto, ita conftrictum \& contractum apparebat, ut vix digiti crafitiem æquaret, nullamque ferè cavitatem interiùs monftraret.

Tandem vias urinarias, utpote officinam tot calculorum vifitantes, in renibus atque ureteribus nihil præternaturalis invenimus, in vefica verò tres calculos, phafeolorum magnitudinem habentes, eos tamen non liberos, fed membrana valida involutos, ac lateri anteriori prope fphincterem adhærentes deprehendimus, quos in rei memoriam una cum corum involucro affervo. Unde hæc membrana, calculos involvens originem trahat, explicatu diffillimum mihi videtur; quamobrem hac data occafione, flatu per ureterem utrumque immiffo, inquifivi, an illa (viz. membrana) cum ureteribus commonicet; \& utrum fit ipfa membrana Veficæ interior, à calculis in ureteribus, inter fubflantiam Vefice incedentibus, una cum uretere, vel hoc rupto, extenfa : nihil tamen detegere potui. Hos tamen calculos Dyfuriæ non tantùm continuæ, fed etiam propter irritationem perpetuam, confrictionis præternaturalis inteftini coli atque recti extitiffe, rationi conveniens videtur.
4. A Man aged 70 Years, died of a Supprefion of Urine, oc- By Mr John cafioned by a Stone flopping in the Uretbra, juft within the Glans, Ranby, F.R.S. of the Bignefs of a Horfe-Bean. This Appearance, with the Symp- No. 40r. p. toms that had attended this miferable Man, gave me Reafon to ex- 413 . pect fomething remarkable in the urinary Paffages. The Ureters and Pelvis were very much diftended ; which is common where great Numbers of Stones have defcended down them, from the Kidneys to the Bladder. The Bladder contained about fixty Stones, the largeft of which was about the Size of a Walnut, the others fmaller; and juft within the Neck, was a bard Tumour, as big as a Nutmeer, which almoft clofed the Orifice; and indeed the Situation of this

## Stones voided by ufing Pyrmont Waters.

Tumour was fuch, that it not only made the pafing the Catbeter very difficult, and hindered our feeling the Stones, by diresting the Infrument upwards; but likewife would alone produce the Symptoms of the Stone in the Bladder, by obftructing the free Difcharge of Urine through the Uretbra; the inner Membrane of which appeared as if lacerated in feveral Places, and the Tube flled with a glutinous Matter tinged with Blood. On the back Part of the Veficula Seminales, near the Proffata, were feveral Stones, as large as Peas, which clofely adhered to the adjacent Mernbranes.
${ }^{-1}$ By MrJohn 5. Mr Laurence, a Gentleman of about forty Years of Age, had Dobyns, F.K.S. No. 4)2. p. $45^{2}$. for near twenty Years a Complaint in his Kidneys; making bloody Urine upon any extraordinary Motion, but free from the great Pain, and all other Symptoms ufually attending nephritic Cafes. However, upon opening the Kidneys after his Death, there was in each a Stone of an extraordinary Size and Figure, befides 100 fmaller, which are brought for the View of the Society, with a Defcription and Draught of the two largeft fubjoined.

Fig. 103. Shews the Stone denudated, as taken from the Pelvis of the right Kidney. a. That Part which had branched into the Ureter, and totally obftructed it's Channel. b. b.b. The eminent Parts of it. c.c.c. That Part which filled the Capacity of the Pelvis.

Fig. 104. Shews the Stone taken from the left Kidney, a. That Part which had protruded itfelf into the upper Part of the Ureter, but did not totally plug it up, by which Means the Urine had a Paffage. b. b. b. b. The eminent Parts which branched into the Fiffulce membranacea. c.c.c.c. The Body of the Stone which lay in the Pelvis of this Kidney.

Great zuanThities of Stomes, voided during the ase of the Pyrmont $W a-$ sers. By Abra. hain Vater, AR, D. F. R.S. No. 377 . ${ }^{6}$. 322.
XVIII. Nobilis Pomeranus, fanus ac vegetus, uti ipfe de fe refert, nulliufque mali fibi confcius, ante hos tres annos, fuafu amici, converfationis caufa, focium fe ipfi adjuxit, in bibendis aquis medicatis Pyrmontanis. Factum autem eft, ut, cum potando aliquot dies tranfegiffet, calculos quofdam minores, abfque ullo quidem dolore, excludi inter mingendum fentirer. Effectum hunc criticum effe fibi perfuadens nofter, aquas iftas aucta dofi bibere incipit, quo facto, quatuor vel quinque dierum fpatio, ultra quadraginta calculi, rurfus tamen fine moleftia, exierunt. Hoc vifo, ftrenuè \& alacriter potare pergit, optimum hujus curae effectum fibi promittens. Affumpta vero ita nimia aquae quantitate, urina fupprimitur, adeo, ut ne minimam ejus portionem per tres dies emittere potuerit, ufque dum catheteris ope via aperiretur. Commonefactus itaque à Medicis, ab ufu aquarum ulteriori abftinuit, rem ita peractam effecredens. Non ita multo poft, vir ifte iter faciens, continuo mingendi conatu laceffitur, ac iterum iterumque ex rheda defcendere cogitur, tandemque inter gravifimos dolores fanguinem purum effundit. Duravit mictus cruentus \& dolorofus, quamdiu aeger in itinere conftitutus fuit, poftquam vero hic, domum reverfus, quieti fuduit, ftatim ceffavit, nec
quicquam doloris remarfit. Quoties vero ab illo tempore five rheda, five equo veheretur nofter, redit dolor, \&\& fanguis cum urina feceffit, fed quiete reftituta, iterum evanuit, nullo planè dolore fupertitè. Contigit quidem interdum, ut calculus unus vel alter prodiret, rarius tamen hoc factum eft, nec ullum ex eo dolorem percepitaeger, quoniam hi longè minores, quam quos inter aquarum ufum reddidit, fuerunt. Symptomate hoc admodum molefto per duos integros annos vexatur aeger, tandem ufu medicamentorum liberatus eft. Ceffante itaque penitus mictu cruento, nil magis timuit, fed integrae fanitati reftitutus fibi vifus, medicamentis valedixit. At, quid fit? Augetur poft illud tempus indies Stranguria, virque continuo die nocteque ad urinam reddendam ftimulatur, quo malo ipfe ad hunc ufque diem affligitur. Urina, quae parciffima quantitate, fummoque cum dolore emittitur, craffa exit, ob pituitam vifcidam admiftam, quae fundum flatim petit, glutini ex farina confecto fimilis, tantae tenacitatis, ut in fila quafi trahi queat. - Aeger interea appetitu bono gaudet, \& fomno quoque fufficienti utitur, nec ullibi praeterea in corpore dolorem fentit.

Si quis hiftoriam morbi, quoad omnes ejus conditiones, accuratè The Caje conperpendat, mecum confitebitur, eandem vix parem inter obfervationes fidered. Medicas agnofcere. Notatu digniffimum imprimis eft, potu aquarum iftarum mineralium, calculos fat infignes, in tanta copia, atque intra tam breve temporis fatium exclufos effe, a viro, uti ipfe de fe refert, ante aquarum ufum perfectè fano, nec ullum calculi indicium unquam fentiente. Non levem hoc in animo excitare poteft fufpicionem, calculos non tam ab aquis propulfos, quam ex croco minerali, qualem aquae tales medicatae in finu gerunt, generatos potius in hoc aegro fuiffe. Parum quidem huic fententiae favere videtur tempus admodum breve tot calculorum concretioni vix idoneum, quoniam hi, paucos poft dies ab inchoato aquarum potu, exclufi funt. Non tamen exiftimo, quenquam facile definire poffe, quantum temporis fpatium ad calculi in corpore generationem requiratur ; poterit hoc forte effe exiguum. Longè enim minus veritati confentaneum videtur, calculos iftos jam tum in viis urinariis latitaffe, quoniam vir ille nunquam antehac urinae difficultatem, aut aliud calculi fignum percepit. Confirmant è contrario omnes hujus cafus circumftantiae, concretionem iftam fubito faitam effe. Calculi enim ipfi nullatenus afperi atque angulofi, quales alias veficae calculi effe folent, ob fucceffivam fpiculorum falinorum cohaefionem, fed piforum majorum minorumque inftar, rotundi, glabri, \& politi obfervantur, quod coagulationem eorum fubitaneam docere videtur. Color corum luteus convenit exactè cum fedimento illo, coctione ex aquis Pyrmontanis extracto, cujus minimam portionem ex quatuor unclis aquae hujus paratam addere volui, ut tanto melius convenientia ifta patefcat. Fracti calculi ftrata ejufmodi variegata interius monftrant, qualia in tophis thermarum Carolinarum deprehenduntur, quorum pariter parV OL. VII, Part iii. cum aliquot fruftulis contritorum, pauciffimos enim tantum obtinui. Ulimo tandem loco attendi quoque meretur fingularis ifta circumftantia, yuod maxima horum calculorum pars inter ipfum aquarum ufum exclufa fir, poft illud tempus vero rariffimè tales, iique longe minores prodierint, Non tamen ideo culpa hujus rei in aquas iftas medicatas conjicienda erit, quafi hae ad calculi generationem difponant, cum potius debilitati vifcerum, ac pravae digeftioni adfcribi debeat effectus ille extraordinarius.

A large Stone soided througb the Urinary Paffige, ly a Woman. By Dr Rich. Beard, F. R. S. No, 397. p. 211.

Fig. 105.
XIX. A poor Woman in the Parifh of Fladbury in Worcefterfire, aged 63 , about * three Years ago, was afflicted with the ufual Symptoms of a Stone in the Kidneys, and afterwards in the Bladder. The Fits of Pain occafioned by it increafed as it's Bulk did; till the was fo emaciated by them, that her Cafe was judged defperate. Finding Relief (towards the End of laft Summer) by a plentiful Ufe of Mallow-Tea, fhe perfifted in it for a while; when on a fudden, in the Prefence of fome Women, fhe perceived an uncommon Weight and Force within, which affifting with all the Strength and Breath fhe had left, a Stone came away with a Noife that very much furprized the whole Company, and with lefs Pain and Effufion of Blood then, or Sorenefs afterwards, than might have been expected. She is fince eafy and in healch, and feels no other Inconvenience now, but that unavoidable one, an Incontinentia Urince.

The Stone (of which I fend you the Side-view, drawn as near to the Life as we could) is of the fame Colour and Texture with others of this kind that I have feen, formed in human Bodies. It's Weight, as I at prefent find it, is 3 ij . $3 \mathrm{j} \cdot 55 . \mathrm{gr}$. Avoird. When firft voided, 'twas confiderably more, feveral Pieces having been rubbed off at $c c$, and likewife on the other Side: The greateft Circumference is 7 Inches and $\frac{1}{2}$; 'tis 4 Inches $\frac{3}{4}$ round at the thickeft Place, and the Length on the Convexity is 4 Inches $\frac{7}{8}$; the Parts of the Stone at a a a are fomewhat jagged and ftained with Blood, as is the little Protuberance on the oppofite Side $b$. Here, I fuppofe, it met with the moft Refiftance, at the Time of it's Expulfion thro' the Urinary Paffage.
A Stone broken XX. In terris Brunfvicenfibus in Coenobio feculari, quod Mariinthe Bladder, entbal appellatur, \& ad horae circiter diftantiam ab Helmftadio, and dijcbarged tbro' tbe Urethra ; by Laurence Heifter, M.D.F.R.S. No. 417 .p.13. celebri Academiae Juliae fede, fitum eft, rerum oeconomicarum hujus Coenobii Praefectus, nomine Widmannus, vir fexagenario major, fed robuftus \& duro vitae victufque generi adfuetus, qui per plures annos primo calculo renum faepe \& vehementer laboravit, corumque fenfim magnam copiam, quorum multi Pifi magnitudinem fuperarunt, per iter urinae haud fine magnis doloribus excrevit. Tandem vero quatuor $a b$ hinc annis calculi quoque veficae om-

nia percepit fymptomata, ita, ut faepe non nifi maximis cruciatibus in pubis \& perinaei regione perceptis urinam excernere voluerit. Tandem vero Anno 1728, poftquan aliquamdiu variis, ufus erat remediis, $8 x$ inprimis Tinctura antinephritica, ut vocant Lipfienfi five Rothiana, atque fimul cerevifiam illam his in regionibus contra calculum celeberrimam, quae Regiae Luterae vulgo koenigs Lutter, oppido Brunfvicenfi, coquitur, \& quam $D$ Ducbfteittappellant, hancque ob caufam in loca five urbes remotiffimas devehitur, continuo pro potu ordinario hauferat, aliquando vehementes inter mingendum dolores, nifum \& conftrictionem in vefica, fenfumque eo ipfo, ac fi calculus, five calculi in vefica frangerentur ac diffilirent, percepis, eoque ipfo mox aliquot fruftula calculi fracti cum lotio dejecit, quae deinde per plares dies alia fecuta funt, donec tandem ab eis liberatus bene atque pancratice ab omnibus $\&$ calculis \& calculi doloribus, immunis nunc vivat. Calculos plures una in hoc viro fuiffe majores, quam ut integri per urethram tranfire potuiffent, docent primo diverfus color diverforum fruftulorum, quorum nonnulla fufcum obtinent colorem, alia flavefcentem ad fulphuris colorem aliquo modo accedentem, quemadmodum ex his adjectis fruftulis perfpicere eft. Deinde id evincunt diverfa horum fruftulorum fegmenta: quorum alia majoris alia minoris arcus fegmenta funt. Quod ad numerum attinet fruftorum, centum circiter ejufmodi mihi dedit, qualia nunc offero, quae ex matula collegit. Sancte vero mihi affirmavit, magnam eorum, imo forte adhuc majorem copiam in terram decidiffe \& periiffe, cum faepe ruri, vel in fylvis, vel in ftabulis ad res domefticas curandas degens, mejendi ftimulo fuerit correptus, atque fic multa cum urina vel in terram, vel inter herbas aut ftramina ejecerit. Nonnulla horum fruftulorum dimidium pollicem aequant, plura minora funt, eorumque fuperficies externa convexa, interna in plerifque concava, alia nucleum, ut vocant, calculi adhuc exhibent.

Ipfe vir eft honeftus, antiquae \& germanae fidei, cui, ut hac in re fallat aut mentiatur, nulla eft caufa. Notus eft morbus olim perpeffus hominibus quamplurimis; nota jam eft ejus fecunda valetudo omnibus, qui eum norunt. Calculorum fractorum ingens copia \& facies, quod revera è vefica fint, rem ulterius confirmat, ita, ut certi effe poffimus, haec frufta revera in vefica ejus integros calculos fuiffe, qui poftea in vefica, nefcio utrum medicamentorum, an cerevifiae illius, an naturae beneficio difrupti \& expulfi fint. Ex fegmentis fruftulorum valde convexis, quae hic mitto, \& quae adhuc adfervo, judicare licet, vix ullum illorum calculorum nucem mofchatam fuperaffe plures vero minores fuiffe. Interea tamen folutionem calculorum in vefica haud proffus impoffibilem effe, mihi evincere videntur, licet res forte quam rarifime contingat.

A large stome XXI. Vigintiabhinc Annis Penis cujufdam Cookroorthy ob Luem intbe Urethra; Veneream, ad modum quafi Eunucbi Turcici, refectus fuit: at Vulby Dr J. Huxham. No. 413 . p. 257 . nus nec probe curavit Chirurgus, nec bene fanavit; Cicatrice quippe obducta vix ullum Urinae Iter, Urethra pene occlufa. Lotium exinde exiguiffimo Rivulo fummoque nifu reddidit; brevique inter mingendum Cruciatus magnus acceffit; pauloque poft in media, at fuprema, Parte Scroti Tumor parvus, fenfim tamen auctus in magnam demum excrevit molem, laevum ad Inguen quafi vergens. Hinc Urinam ejaculandi impotens prorfus factus Stillicidio ejus continuo laboravit. Sed neque hac via, Urethrae fcilicet, omnem emulxit; enatis enim tribus quatuorve in Scroto Fiftulis, pars forte maxima Lotii ex hifce defluxit, Pure fubinde comitante. At ne fic quidem Tumor, jam durus admodum, vel minime decrefcebat, quinimo increvit ufque.

Dira haec inter Tormenta cum per plures jam Annos Mifer hic, neglectus omnino, miferrimam pertraxerat Vitam ad noftrum Nofocomium tandem delatus fuit. Ibi menfe Julio elapfo, quum fummo nixu Urinam, folito quod dixit ardentiorem, expellere, Corpus incurvando maxime, contenderet, ingens hic prolapfus eft Calculus; qui recens excretus $\zeta v$. ß Ponderis Avoird. pependit. Eum mihi propere, quafi monftrum quoddam, mitti curabant Nofocomii Rectores. Rem certe quod debui plane mirabar Hominemque invifebam continuo. Lacerum inveni Scrotum, jam minime tumidum, Manum puerilem facile admittens, \& ex Urethra Calculum elapfum fuiffe deprehendi.

Atqui id forfan haud parum Miraculo adjiciat, quod magnum hoc lacerumque Vulnus Balfamo quodam Terebinthino tantum oblinendo brevi fanum evafit, ni quod parva adhuc pateat Urinae Fiftula in fuperiore Parte Scroti. Atque Mifellus Ille, cui ante excretionem. Calculi vix ulla fe movendi Potentia, commode jam fatis obambulat.

Non ego quidem hunc Calculum in Urethra primitus fuife enatum autumo, ab ibidem Loci ex arenofa materia concretum maxime. Cum enim parvus forte Calculus, Semen quafi hujus enormis, è Renibus delapfus erat; \& ob Urethram fere occlufam, negato ultra Itinere, in Canaliculo fubftiterat, Sabulo perpetim appellente auctus in immenfam hanc Molem tandem excrevit.

Two Cbirurgi. cal Quefions, Pated and anfreered by John Douglas, Surgrong F. R.S. No. 399. p 318.
XXII. Q. r. Whether it is not poffible in fome Meafure to relieve thofe Perfons (who by reafon of their great Age, bad Habit of Body, Efc. cannot fubmit to any of the great Operations for the Stone with tolerable Hopes of Succefs') by making an artificial Fiftula in the Perinaum?
A. That a great many Patients offer, both young and old, who are aflicted with the Stone in the Bladder, whom we cannot with any tolerable hopes of Succefs, advife to fubmit to the great Operations for the Stone, daily Experience fhews. It is inhuman to cut them, and

## Two Cbirurgical Quefions fated and anfwered.

and fhews very great Imperfection in our Art, to fay we can give them no Relief. Is there no Medium yet found out between living in extreme Mifery and fubmitting to a defperate Operation? Yes, Thomas Fienus, about 125 Years ago, propofed a Palliative Cure for fuch Patients, where a radicative Cure could not be expected; an Operation which may be performed with Safety on the moft Ancient; the Wound is fo fmall, and the Parts cut of fo little Confequence to Life. An Operation by which we can prevent or alleviate the moft lamentable Effects of the Stone, viz. The total Suppreffion of Urine and the cutting Pains they endure in, and after, making Water, $\mathcal{E}^{\circ} \mathrm{c}$. yet this Operation has been as little minded all this while by the Hojpital-Litbotomits, as Roffet's moft excellent Treatife before I introduced the Hypogaftric Section in 1719. Tho' I admire Fienus's Defign in making this Fifula, yet I can by no means approve of his Way of doing it.

It ought to be performed thus: Place the Patient as in Marianns's Operation; pals a Staff into the Bladder, then cut the Skin and Fit until you lay that Part of the Uretbra bare, which reaches from the proftate Gland to the cavernous Urelbra; then make a fmall Incifion into it with the Point of your Knife; then withdraw the Staff, and pafs a fmall flexible Canula into the Wound of the Uretbra; then drefs the Wound S. A. extract the Canula, clean it, and introduce it again every Dreffing, that fo you may leave a Fijfula in the room of the Wound.

Through this Fifula the Patient himfelf or any one about him, may eafily pafs an oiled Probe, and pufh the Stone back whenever he finds himfelf attacked with a Suppreffion of Urine, or when the Stone preffes hard againft the Spbiniter, when endeavouring to make Water, which otherwife could not be done without the Ceremony of fending for, or ftaying in Mifery 'till a Surgeon comes to pafs the Catheter, which in fuch Cafes is not always to $b \varepsilon$ done, without a great deal of Pain, and fometimes Danger. By this Fijtula we can alfo very eafily inject any Liquor that may be thought proper either to prevent or allay the Inflammation of the Bladder, or cleanfe it from the Gravel, or any other fort of Filth that may collect there, by which the Increafe of the Stone will be prevented, $\mathcal{E}^{c}$ c.

In Females all thofe Advantages are obtained by the natural Straitnefs and Shortnefs of the Uretbra, whence they never fuffer the tenth part that Males do; which is an inconteftable Evidence, that when the Paffage into the Bladders of Males is made as ftraight and near as fhort (as is done by the forementioned Fifula) they will reap the fame Advantages by it.

Therefore artificial Fiftula's in the Perincum ought to be made for thofe who by reafon of their great Age and bad Habit of Body, $\xi_{0}$. cannot undergo any of the great Operations for the Stone, with any Hopes of Succefs.

[^5] the Perincum of Males, and the Uretbra of Females, with Spunge or Gentian-Tents gradually increafed for fome time, to fuch a width, that we may eafily pafs a Pair of Forceps into the Blad. der, with which the Stone, when fmall, may be extracted; and when large, or of an irregular Figure, broken, and the Pieces extracted gradually and at different times, when they cannot be extracted at once, without fatiguing the Patient too much.
A. To prove that both thefe Fifula's may be dilated to a fufficient Bignefs by the Means propofed, (efpecially, if the Parts are frequently bathed in a Semicupium or otherwife, as the Operator fhall think proper, and fome warm Oil injected into the Fifula every time the Tent is changed, (the better to fupple and relax the Parts) I fhall only make ufe of three Arguments, viz. One from common Experience in Analogous Cafes; another from the Operations of Nature on the fame Parts; and the third from Inftances of this Operation being performed after the Method I propofed. Ift, Common Experience Thews to what a great Width Fiftula's in all other Parts of the Body, tho' very fmall at firft, may be dilated by Spunge or Gentian-Tents. 2dly, Nature herfelf, without any Art, has frequently performed this Operation on both Sexes; in Males who have been cut for the Stone, the old Way, and had Fifula's remained in Perinco. It is often found, that fome confiderable time afterwards, Stones of no fmall Size have appeared, which had made their way thro' the Sphincter of the Bladder into the Membranous Uretbra, and ftuck near the Orifice of the Fiffula, whence they were eafily and fafely extracted. I faw a Stone lately as big as a Pullet's Egg that was expelled from the Bladder of a young Woman without any Help, as her Phyfician affured me, and fhe had no Inconveniency afterwards, which certainly would have happened if it had been extracted after the common violent Method. Dr Beardgives an Account of a yet larger Stone, that paffed after the fame manner, but fhe had the common Inconveniency afterwards, viz. an Incontinency of Urine, which was owing more to the Roughnefs than the Bignefs of the Stone, which had lacerated the Parts as in the common Operation; which might have been prevented, had the been affifted in time, as above.
${ }_{3}$ dly, M. Collet, in his Traité de la Taille, gives an Account of a Gentleman on whom he performed this Operation three different Times, and extracted in all ten Stones. His Words are as follow:

Enfin, Monfieur Uffon etant bors de danger E fa playe prête a fe cicatrijer, prévoyant bien ce qui pourroit arriver dans la Suite, je lui confeillai de tenir sa playe ouverte, pour y entretenir Seulement une petite Canule, qui dans l'occafion donneroit une entiere liberté de fair Injeetion pour nettoyer la Veffe de toutes les Immondices Ej pour qu'on pût enlever les nouvelles

Plate XXI Vol VII Part III paye 558

33 Sunas cut by the laternd operation out of a peryon if 65 years of age, who perfutlu recevered by m? Gubtratdin 12: 404. Plute =
$U \cap \in D$

Pierres qui pourroient fe jormer. Il prit ce parti, Ev il fe trouva bien durant cinque Années, quil a Vecu depuis avec afjez de Santé Mais a trois differentes reprijes, je mi fuis vû̃obligé de lui tiver jufqu'a dix autres pierres qui s'ctoient formées dans la Veflie: une petite Tente d'eponge preparée mije pendant quelques beures dans la Fijtule à la place de la Canule me facilitoit l'Entrée d'une tres petite tennette. Monf. Ufon s'babilloit dans ce Moment E' il fortoit pour aller par tout on fes Affaires l'appelloient.

I know a Gentleman that now keeps a Fijfula in Perincoo open for the very fame Reafons.

Since then it is evident, that Fifula's in all Parts of the Body are dilatable to a great Width, fince Nature is often able of herfelf to dilate the very Parts in difpute, to a very extraordinary Degree; and fince this very Operation I here propofe has been fuccefffully performed three times on the fame Perfon,

Therefore Artificial Fifula's in Males and the Uretbra in Females may be dilated fo as to extract any Stone without cutting the Body of the Bladder, or lacerating any of the Parts.
N. B. This Operation will appear lefs furprizing, if we confider, that it is only dilating the Sphincter of the Bladder, $\mathcal{F}^{\circ}$. in a different manner from that daily done in Marianus's Operation, i. e. By this Method the Parts are dilated gently and gradually, after being well bathed and anointed, the better to relax them. Whereas in Marianus's Operation they are dilated quickly and violently, and then the Stone, be it of what Largenefs or Figure foever, is forcibly drawn out immediately; whence Contufions, Lacerations, Hæmorrhages, Inflammations, Mortifications, $\mathcal{E}^{\circ} c$.
XXIII. Quadragenarius quidem civis Norvicenfis pancratice valens, profluvio fanguinis finceri per canalem Urethrae correptus eft, 30 die Junii, 1716. Idem rediit phaenomenon, 31 Julii. Adhibitis qui. bufdam medicamentis, \& celebrata venaefectione in Brachio, cohibitus eft fluxus fanguinis praedictus, ufque ad octavum diem Septembris, ac deinceps penitus evanuit. Notatu tamen eft dignum haemorragias fupra memoratas abfque omni praevio dolore, feu poftea fpirituum dejectione contigiffe.
XXIV. Novemb. 24, 1725, a poor Woman came to crave my Advice for an Infant of about 16 Months old, bringing with her a Worm, which fhe told me the Apothecary had juft then drawn out of the Child's Penis, who had for feveral Days before laboured under great Uneafinefs; which fhe called Convulfions of the Bowels. It was con- Tumer. No. tinually drawing up the lower Limbs, and fraining at both Sphinc- 391. p. 410 . ters; the Urine feemed to pafs with Difficulty for fome Days, till at laft there came on a total Suppreffion, and the Worm advancing, thewed itfelf at the Extremity of the Uretbra. I examined the Infect, and found it meafured above four Inches, refembling the Worms ufually excerned per Podicem, of the Earth-worm kind, but whiter; which made me think at firft they had been miftaken, and that it had

## A remarkable Conformation of the Urinary Parts.

been that way excreted. Having directed what I thought proper, I went to the Apothecary, who has the Worm now in his Cuftody, to be better informed. He affures me, that, when he came to the Child, he faw a preternatural Body, hanging half an Inch out of the Glans, and lying double in the Paffage: Perceiving it farther ad. vancing, he took hold of it, and with little Difficulty drew it forth.

The Summer before laft a Woman fhewed me a Maggot, with a crufty red Galea over the Snout, and a forked Tail, which the had juft then voided by the Urinary Paffage.
XXV. In Villá Com' Surriae, Ockley vulgò dictâ, anno 1711 nata eft Infantula, cujus in Tergo, circa vertebras inferiores, apparuit Tumor indolens, cutis colorem, Ovique columbini majufculi magnitudinem referens, qui cum Puellâ tantoperè concrevit, ut circitèr 9, vel io aetatis annum, Veficam vitulinam, aëre diftentam, fed fine Cervice, planè repraefentaverit. Anno 1728. Veficae bubulinae magnitudinem aequabat. Die 29 Jan. proxime elapfo in Lecto jacenti difruptus eft hic Tumor, à quo multum Liquoris, inftar Urinae profluebat. Re perfpectâ, invenimus Tunicas ( $\&$ interiùs Materiam mucofam) Ureteres, Venas, \& Arterias, tales omninò, quales Vefica habere confuevit : nec defuit commercium quoddam cum Partibus internis per foramen in vertebris Digitum hominis minorem in Abdomen admittens, quod Vafa memorata recipiebat. $2^{\circ}$ Die Feb. 1728, horam circiter decimam nocturnam obiit Puella; \& fi Cadaver aperire per Parentes, huic Rei ftrenuè reclamantes, licuiffet, credo quidèm in Abdomine, Veficae Cervicem, \& nullam aliam Veficam invenifiemus; non enim poft ruptum Tumorem vel femel minxerat.

## An extraordi-

 nary Caule of a Sapprefion of Urine in a $W_{0}$ man; by Claudius Amyand, Eiq; F. R.S. No. 422 . p. 259.An Excretory Duct from the Glandula Reinlis. Entratio ed from the Giomale di Literati of Venice, for the Yat $17+9$. No. 38 j. p. 190.

A pemarkable Conformation of the Urinary Parts ; by Mr John Budgen No. 410 . $p$. 138.
XXVI. I was lately called to a Woman who had a Suppreffion of Urine, occafioned by the Menfes collected in the Vagina, preffing upon the Uretbra. She had been delivered eight Months before of two Children ; after which the Caruncula Myrtiformes had joined together fo clofely, that there was no room for any Evacuation of the Menfes. I made a crofs Aperture, whereby near three Quarts of the Menfes collected were difcharged; the Suppreffion of Urine was immediately removed, and the Patient cured.
XXVII. 1. The celebrated Anatomift, Signor Ant. Maria Valfalva, already known by his noble Treatife De Aure bumana, has lately made a confiderable Difcovery. He has found the excretory Ducts of the Glandula Renales, or, Rencs Succenturiati, which difcharge themfelves into the Parts of Generation; that is to fay, into the Epididymides in Men, and into the Ovaria in Women. He has read a learned Differtation relating to this Difcovery, before the Academy of Sciences in Bologna, in which he undertakes to prove, that thofe Renes Succenturiali are to be reckoned among the principal Organs of Generation.

## A Dropfy in the left Ovary.

2. I lately procured a human Body, in order to fearch for this An Enquiry Duct, which I did with all the Diligence I was capable of. I was not fo happy as to difcover any Duct of this kind ; but, having injected the Aorta, I found the Arteries going to the Glandula Renales Surgeon, difpofed, as in the Figure. Now whether that Branch of the Artery, F. R.S. No which from the Glandule Renales goes down on both Sides towards $3^{87}$. p. 270. the Tefticles, without fupplying any of the neighbouring Parts, might not have been miftaken by the above-mentioned learned Anatomift for an Excretory Duct, all Arteries being generally in dead Bodies free from Blood, and of a whitifh Colour, I will not prefume at prefent to determine, for want of farther Experiments.

A A the right Kidney. B B the left Kidney. C C the defcending Fig, ro6.
Trunk of the Aorta. D the right emulgent Artery. E the left emulgent Artery. F the right Glandula Renalis. G G the right feermatic Artery. H the left Glanduia Renalis. I I the left fpermatic Artery. K K the Ureters, a a a fmall Artery arifing out of the defcending Trunk of the Aorta, a little above the right emulgent Aptery. It fends two Branches $b b$ upwards to fupply the right Glandula Renalis. A third Branch $c c$ goes downwards towards the right fpermatic Artery $\mathrm{G} G$, and then farther in company with the fame to the right Te fticle. dda fmall Artery arifing out of the left emulgent Artery, near the defcending Trunk of the Aorta, and going directly upwards to the left Glandula Renalis H. e e a fmall Artery arifing out of the defcending Trunk of the Aorta, a little below the left emulgent Artery. It divides into two Branches; one whereof $f f$ goes upwards between the emulgent Artery and Vein to the left Glandula Renalis; the other $g \mathrm{~g}$ downwards, towards the left fpermatic Artery, and in company with it to the left Tefticle.
3. I have fince found the fame Arteries in Women, defcending in Continued by the fame common Capfula with the fpermatic Artery and Vein, to the the Same. No. Ovaria. Thefe Arteries, very probably, are what ValJalva took for 395. p. v59. excretory Ducts of the Glandula Renales; the Difpofition and Progrefs of thefe being very much alike to what has been afcribed to thofe fuppofed Ducts.
XXVIII. ı. In Aug.I7or. Margaret Millar, living not far from Glafgow, informed me, that her Midwife, in her laft Lying-in, at 45 Years old, having violently pulled away the Burthen, the was fo very fenfibly af. fected by a Pain, which then feized her in the left Side, between the Umbilicus and Groin, that fhe fcarce ever had been free from it after, but that it had troubled her more, or lefs, during 13 Years together; that for two Years paft fhe had been extremely uneafy, her Belly grew very large, and a Difficulty of breathing increafed continually upon Houftoun. her; infomuch, that for the laft fix Months, the had breathed with No. 381. p.s. the utmoft Difficulty. That in all that Space of Time, fhe had fcarce eat fo much as would nourifh a fucking Child; and that for three

V O L. II. Part iii.
Months

## A Dropsy in the left Ovary:

Montlis together fhe had now been forced to lie conftantly on her Back, not daring to move at all, to one fide or other.

This Tumour was grown to fo monftrous a Bulk, that it engroffed the whole left Side, from the Umbilicus to the Pubes, and ftretched the Abdominal Mufcles to fo unequal a Degree, that I do not remember to have ever feen the like in the whole Courfe of my Practice. It drew towards a Point. Her being fo long confined to lie continually on her Back, having grievouny excoriated her, added much to her Sufferings, which, with want of Reft and Appetite, had greatly wafted her.

I told her, that in order effectually to relieve her, I muft lay open great part of her Belly, and remove the Caufe of all that Swelling : She feemed not frightned, but heard me without Diforder, and preffed me to the Operation.

I drew (I mutt confefs) almoft all my Confidence from her unexpected Refolution, fo that without lofs of Time, I prepared what the Place would allow, and with an Impofthume Lancet, laid open about an Inch; but finding nothing iffue, I enlarged it two Inches, and even then nothing came forth but a little thin yellowifh Serum; fo I ventured to lay it open two Inches more. I was not a little ftartled, after fo large an Aperture, to find it fopped only by a glutinous Subftance. All my Difficulty was to remove it ; I tried my Probe, I endeavoured with my Fingers, but all was in vain; it was fo nippery that it eluded every Touch, and the ftrongeft Hold I could take.

I wanted, in this Place, almoft every thing neceffary, but bethought myfelf of a very odd Inftrument, yet as good as the beft, becaufe it anfwered the End propofed. I took a ftrong Firr-Splinter, wrapped fome loofe Lint about the End of it, and thruft it into the Wound, and by turning and winding it, I drew out above two Yards in Length of a Subftance thicker than any Gelly, or rather Jike Glue that is frefh made and hung out to dry ; the Breadth of it was above ten Inches: 'This was followed by nine full Quarts of fuch NIatter, as I have met with in Steatomatous and Atheromatous Tumours, with feveral Hydatides, of various Sizes, containing a yellowifh Serum, the leaft of them bigger than an Orange, with feveral large Pieces of Membranes, which feemed to be Parts of the diftended Ovary. Then I fqueezed out all I could, and ftitched up the Wound in three Places, almoft equi-diftant: I was obliged to make ufe of Lucatellus's Balfam, which was made by her Lady for the Ufe of the Poor; with this Balfam I covered a Pledget, the whole Length of the Wound, and over that laid feveral Compreffes, dipped in warm French Brandy, and becaufe I judged that the Parts might have loft their Spring, by fo vaft and fo long a Diftention, I dipt in the fame Brandy a large Napkin four times folded, and applied it

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over all the Dreffings, and with a couple of ftrong Towels, which were alfo dipt, I fwathed her round the Body, and then gave her about four Ounces of the following Mixture. Be Aq. Mentba th is. Aq. Cinnamomi fort. Hj ß. Syr. Diacodii そvj. M. The CinnamonWater was drawn off from Canary and the beft Cinnamon; indeed it was the fineft and moft fragrant Cinnamon-Water I ever tafted: Of this Mixture I ordered her 2 or 3 Spoonfuls 4 times a Day.

Next Morning I found her in a breathing Sweat, and fhe informed me, with great Tokens of Joy, that fhe had not flept fo much, nor found herfelf fo well refrefhed at any time for three Months paft. I carefully attended her once every Day, and as conftantly dreffed her Wound in the fame manner as above, for about eight Days together; I kept in the lower Part of the Wound a fmall Tent, which difcharged fome Serofities at every Dreffing for four or five Days. But Bufinefs calling me elfewhere, I left her, having firft inftructed her two Daughters how to drefs her Wound, and told 'em what Diet I thought moft proper.

Her chief Food was ftrong Broth made of an old Cock, in each Porringer of which was one Spoonful of Cinnamon-Water; this was repeated 4 times a Day, and gave her new Life and Spirits.

After three Weeks Abfence, I called at her Houfe, and finding it fhut up, was a little furprized, but had not gone far before I was much more furprized, when I found her fitting wrapped up in Blankets, giving Directions to fome Labourers who were cutting down her Corn.

She mended apace, to the Admiration of every body thereabouts, recovered furprizingly, and lived in perfect Health from that time, till OEtober 1714 ; when fhe died in ten Days Sicknefs.

That this Tumour, or rather Dropfy of the Ovarium, proceeded from the Midwife's Rafhnefs in pulling away the Placenta, not knowing how to feparate it from the Uterus fkilfully, feems to me plain from what the Woman herfelf told me, and what fell out afterwards. The Placenta adhering faft to the Uterus, required more Art to bring it away than fhe was Miftrefs of, which probably induced her to ufe Violence; by which fhe forced down the Fundus Uteri; fo overftrained the Ligaments, and all that is appended to them ; efpecially the Ligamentum latum of the left Side and it's Ovarium, which may be reafonably allowed to have been hurt in the Relaxation with the reft. Hence the Elafticity of thefe injured Parts was not only impaired, but the fmall Lymphatics ruptured, fo that the extravafated Lympha rufhing out, thickned, and not being able to recirculate, dilated the injured Ovarium, and thus increafed the Tumour, and the Parts being already exceffively diftended, and being no longer able to refift the new Influx of frefh Secretions, ruptured alfo, and by degrees augmented to that huge and enormous Bulk.

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A remarkable
Cafe of a Gerticuoman avbo died of a Hy drops Ovarii, in the Thirtysbird Mear of ber Age, after baving been tapped 57 simes. By Mr John Belchier, Surgeoll. No. 423 p. 729 .
2. In the Year 1725 , the Wife of Mr. Newberry, a Merchiant in this City, complained of a Pain in her left Side, near her Groin, internally, which fenfibly increafed; and perceiving a Swelling in that Part, fhe at firft thought herfelf with Child; but having other Symptoms, not very common with gravid Women, fhe fent for a Phyfician, who immediately difcovered it to be Hydropical, and after following his Prefcriptions, for fome time, and finding little or no Benefit thereby, fhe fent for another, and fo for a third and fourch; and after between two and three Years fruitlefs Trial of proper Medicines preforibed by the Phyficians, fhe growing very big and uneafy with her Burden, was advifed to be tapped, to which fhe accordingly fubmitted: And on May the 6th, 1728, fent for Mr Cbefelden, who took from her between four and five Gallons of Water; but in a Week or ten Days, after the Operation, fhe perceived herfelf to fill again, in which State fhe continued to the firt Day of July following, when Mr. Cbejelden tapped her again, and took from her about the fame Quantity of Water as before; and in this Manner fhe continued to fill, and be tapped every third or fourth Week, from the 6th Day of May, 1728 , to the 3 d of March, 173 $\frac{1}{2}$, when the died, in the Thirty third Year of her Age.

During the laft 37 times of her Tapping, I conftantly attended her with Mr Cbofelden, when fhe always ('till the two laft times) appeared very brifk and lively, the whole time of the Water's running from her, and was not in the leaft fick or faint, after the Difcharge of the Water, as is ufual, and though the was a very thin emaciated Woman, fhe would frequently walk three or four Miles the Day before the Operation, and moft commonly went abroad the third Day after it.

The Quantity of Water taken from her each time of Tapping was between 4 and 5 Gallons; and during the whole 57 times Tapping, there never was above a Quart, or two Quarts at moft, diffierent in the Quantity, 'till the two laft times, at each of which the Quantity did not exceed two Gallons: But in the Intervals of thefe two laft Operations, fhe was frequently troubled with Reachings to vomit, which burft open the Orifice twice where fhe was tapped, and at each time difcharged about fix Quarts. The Quantity of Water which was taken from her each time, was always meafured, and upon Computation, the whole amounts to near 250 Gallons. The Water that was taken from her the two laft times of Tapping, was much more vifcid than the former.

At times fhe frequently complained of a violent Pain on her right Side, and a heavy aching Pain in the Pelvis. She had likewife a Prolapfus Uteri; and fome time before her Death, fhe could not expel her Freces but with great Difficulty and Pain, and at the fame time laboured under an Incontinency of Urine.

March 6th, $173^{\frac{1}{2}}$, I opened her in the Prefence of her Phyfician, when I found the whole Vifcera, from the Diapbragm to the Ofa Pubis, covered with a thick gelatinous Subftance, which feemed to be membranous, which at it's firt Appearance, I took for the Omentum in a putrified State; but after a farther Examination, I found it to he only the more vifcid Parts of the extravafated Fluid, which could not be difcharged by the Operation: After removing this, I found feveral Portions of a hard fchirrous Subftance, arifing from the Fundus of the Stomach, one large Portion of which was inferted into that Part of the Colon, near the right Kidney, and in Appearance refembled the Pancreatic Gland. Another Portion, which was cylindrical, and about two Thirds of an Inch in Diameter, paffed ftreight over the Inteftines, adhering ftrongly to that Part of the Colon, which lies under the Stomach, and was inferted into the ReEtum, in the Pelvis. Another Portion of this Subftance paffed directly over the Inteftines, to the Pelvis, but about the Middle of the Abdomen it fent out two fmaller Portions, the one was inferted into the Mefentery, the other reflecting back, was inferted into the Colon, on the left Side near the Stomach. As foon as I cut into one of thefe Portions, I difcovered it to be a Part of the Omentum twifted up, and contained in a very thick capfular Membrane. The Diapbragm was forced up fo far by the Contents of the Abdomen, that the Cavity of the Tborax was decreafed to near one-third. The Liver was much larger than in a natural State, and of one intire Subftance, and not divided into Lobes, the whole convex Surface adhering firmly to the Diapbragm. The Stomach was very fmall, as to it's Cavity, but the Coats of it were increafed to fix times their natural Thicknefs (as were likewife all the Coats of the Inteffines and Mefentery) and very much inflamed. Two Thirds of the Stomach adhered to that Part of the Diapbragm, which did not cover the Liver, and the other Part adnered to the concave Surface of the Liver; as did likewife the Duodenum, whofe Cavity was very large. Below the Duodenum, the Colon adhered to the lower Part of the concave Surface of the Liver, fo that the whole Liver was contained in a kind of Burfa, compofed of the Diapbragm, Stomach, Duodenum and Colon. The Cacum, Colon and Rectum were much larger than in a natural State, and adhered fo very ftrongly to the Parts over which they paffed, that it was with much Difficulty I could feparate them. The Spleen was not one fourth of it's natural Size, and one Half of it's external Surface was entirely cartilaginous. The Pancreas was fmaller than ufual, as were likewife the Kidneys, Ureters and Bladder; and in the Pelvis of each Kidney, there were fmall fabulous Concretions. The left Ovarium was diftended to fo large a Size, as to fill the whole Cavity of the Pelvis up to the Os Pubis; it's Surface was cartilaginous, like that of the Spleen, and in it were contained a great Number of Hydatides of different Sizes, whereas the sight Ovary was no ways difeafed in the leaft. The Difficulty and

Pain complained of in the Expulfion of the Faces, naturally arife from the Preffures on the difeafed Ovarium, at the fame time that it's increafed Bulk, by compreffing the Inteftinum Rectum impeded the Egrefs of the Freces, and brought on the Inflammation of the Inteftines which we obferved.

The Prolapfus Uteri, and the Incapacity of the Bladder's retaining a proper Quantity of Urine, were likewife occafioned by the Preffure of this difeafed Ovarium upon thofe Parts. But what feems moft material in this Cafe, is the vifcid Matter found in the Cavity of the Abdomen; as the Waters were originally incyfted in the Ovary, was properly extravafated from the Cyfus, into the Abdomen in the two laft Operations; by which, as well the Quantity drawn off as the cuftomary Relief, were very much diminifhed; in lieu of which the Stimulus, from fuch a Fluid, might reafonably bring on the Vomiting obferved from that time.

Quer. Therefore, if fuch a Vomiting enfuing the Operation is not 2 fatal Symptom?

2uer. If any Method can be found to prevent fuch Extravafations?

The Relations of this Gentlewoman are of Opinion, that her Difeafe was occafioned by pulling off her Cloaths, when fhe was very hot, to go into a Bathing-Tub of Water to cool her, when finding the Water exceffive cold, The put only her Legs in, the other Part of her Body being out of the Water, and naked at the fame time; which happened a few Weeks before the perceived the Swelling and Pain in her Pelvis ; and probably this might be the Caufe. As the Conftriction of the lower Parts by the cold Water might, in a great Meafure, impede the Fluids circulating through the lower Parts, and the Blood being at the fame time rarified and expanded by the Heat, might therefore burft through the more tender Lymphatics, and produce the Extravafation.

A preternatusal Structure of the Parts of Generation in a Woman. By John Huxham, M. D. No. 379 p. 408.
XXIX. I. Mulier quaedam de parochia Lanteglafs in Comit. Cornubia, prope Fowye oppidum, annos nata xxiii nupta fuit cuidam Nautae robufto, tandemque praegnans, fibi partium male conformatarum confcia, opem imploravit chirurgicam. Sibi accerfitum effe voluit D. Bonnett de Fowye oppido, \& artis chirurgicae, \& obftetricae peritiffmum. Ille vero perfpecto denudato corpore fequentia obfervavit.

Loco umbilici, in medio abdomine, paululum vero inferius, prominet maffa quaedam fpongiofa, carnis quafi offam prae fe ferens, abdomini tranfverfe incumbens, magnitudinis fere ovi gallinacei, longa autem tres digitos: ex hac duo erumpunt meatus urinarii exiles, qui urinam perpetim exftillant, quam neque vel retinere vel ejaculare poteft; hinc veficam, (fi quae adfit) fphinctere caruiffe concludendum. Spongiofa haec mollifque maffa, urinae acrimonia corrofa, tactum fere refugit mollifimum, adeo ut incurvata obambulare coacta fit, ad dolorem a veftibus impreffum evitandum, eamque tenuiffimis linteis involvere.
volvere. Hanc quidem maffam funem fuiffe umbilicalem male à partú abfciffum, male dein curatum, exiftimo ; ne veı minima enim unbilici, nifi hic, apparent veftigia; quid quod $\& x$ urina per urachum pervium, $\&$ in duos forfan tubulos divifum, vel faltem per canales duos proprios, effluit. Priori potius credo opinioni ; quia dantur Hiftoriae urinam per umbilicum in adultis etiam excretam fuiffe atteftantes. Vid. Hijt. de l'Academic Royale des Sciences, Amn. 170 I.

Hanc infra offam fubintrat Vaginae foramen, ab offa diftans breviffimo fpatio: ex hoc effluxere Catamenia, per hoc etiam gravida facta fuit mulier, haud magnum vero tempore coitus percepit voluptatem; fumma etiam Penis glans in hoc orificium vix fuit intromiffa, multo minus ipfa virga. In hoc foramen digitum aegre introduxit Chirurgus, eo fcilicet animo, ut ipfum uteri collum exploraret, quod tamen ne vel tactu percepit, plane autem deprehendit membranam craffam hocce orificium ab altero inferiore, jam defcribeado, feparantem.

Eo fere ipfo loco, fuperius vero paululum, ubi in mulieribus rite conformatis adeft foffa magna, inventum fuit foramen alterum oblongum, ne vel minimi digiti apicem altius admittens, recto inteftino, uti poft partum obfervatum fuit, pervium (quod à fectione fortaffe accidit): nullus autem hic occurrit Sphincter: inferius vero rectum inteftinum, more folito, cum Sphinctere circundato terminatur.

Orificium hoc oblongum ab orificio vaginae, abdomine maxime tumente, duos faltem digitos tranfverfos diftitit, inter quae membrana defcripta intervenit ab interiore parte, hujufce vero Fiffurae oblongae quafi labiorum coalitio exterius è fuperiore foraminis parte.

Nulla hic Clitoris, hic nulla offium Pubis adfuere veftigia, nifi, quafi Apophyfes breviores ex utriufque offis llii parte inferiore protuberantes, offium Pubis rudimenta dixiffes. Hic fuit ante partum rerum ftatus.

Die 18 Julii 1722 , hora noctis 11 advocatus eft Bonnett Chirurgus, ut parturienti opem ferret. Perpenfis omnibus, Foetum invenit Va. ginae orificium infra dilapfum, quem muliere decumbente fuperiora verfus propellere fruftra adnixus eft, ob fortiffimos Foetus motus \& gravifimos Matris dolores, cui etiam jam fupervenere Convulfiones, Syncope, \& \& . Vaginae autem orificium vix ac ne vix quidem dilatatum, ita ut illi jam jam moriendum effe fuerit omnium expectatio.

In hoc miferrimo rerum ftatu, mifericordia \& humanitate adductus Chirurgus, pofthabuit omnino, quid vel ignarum vulgus, vel invidus hic garriret aut hic: anceps experiendum effe remedium potius quam nullum apud fe ftatuit, morte aliter citiffimo ingruente pede.

Parentibus periculofiflimum rerum ftatum enarravit, nil nifi à fectione expectandum, ancipitem praedixit eventum. Annuentibus hujus miferrimae matre, \& aftantibus, in orificium oblongum inferius fcalpellum chirurgicum introduxit, \& uno ictu coalitionem labiorum urinam

## A preternatural Structure of the

hujufce orificii \& membranam feparantem divifit: hinc in unum coivere \& orificium Vaginae \& oblongum inferius. Jam digitis facilis introitus, orificium Uteri internum attractavit; dilatavit paululum, caput inde fenfit infantis : quid plura? Foctus ori intrufo digito, Puellulam vivam, probe formatam, mirantibus maxime aftantibus, demum extraxit, quae $\&$ adhuc \& viget \& valet: uti etiam \& ipfa Mater, quanquam poft puerperium febre graviter colluctata eft.

Jam à partu prolapfu ipfius Uteri divexatur, quo prolabente nec per horas 8 , 1 ove $^{\text {ve }}$ reducto, eam dein fi fortius intrudas, exiliunt è meatibus urinariis defcriptis rivuli duo ad pedis faltem diftantiam ; argumentum fane Cyftidis cujufdam urinam excipientis: aliter revera fufpicaffem meatus iftos duos urinarios ipforum ureterum fuiffe orificia, hic terminantia.

Quaerat fortaffe curiofior aliquis, quo forte modo gravida facta fuit muliercula noftra. Illi refponderem, Penis intrufionem ad prolem concipiendam haud abfolute effe neceffariam, feminis autem intra vaginam ejaculationem quam maxime. Vid. Hift. de l'Acad. Royale des Sciences, 1712. Videatur etiam Mauriceau.

A A fpongiofam affimulat quafi carnis maffam, quam parte in fuiffe chordae umbilicalis autumo, magnitudinis fere ovi gallinacei, tres vero digitos longam. Ex hac duo erumpunt Fittulae urinariae $b b$, quae urinam perpetim exftillant, nec ex ullo alio orificio redditur urina. c. Orificium Vaginae, cloacae galli gallinacei quam fimillimum, fpiffo quafi fepto circumdatum : per hoc effluxere ${ }^{\text {en }} \mu \mu$ ниva, per hoc etiam gravida facta fuit mulier. Hoc orificium, dum perpeffa fuit mulier graviffimos partus dolores, nullo fere modo dilatatum fuit, quanquam anus ipfe, ob vehentiffimos mufculorum abdominis, \&c. contractiones, maxime hiaret. $d$ Locum indicat, ubi inventum fuit foramen oblongum, minimi digiti apicem vix admittens. In hoc, tempore puerperii, Chirurgus introduxit fcalpellum chirurgicum, idque $\mathrm{ab} h o c$ in orificium fuperius adegit : ita ut jam à partu dehifcat monftrofum horrendum informe ingens foramen. Orificium fuperius tranfverfum $a b$ inferiore oblongo (appropinquante partu) 2 fere digitos diftitit. Ex hoc magno hiatu ipfius uteri prolapfum faepiffime nunc patitur. Ex loco etiam, ubi adfuit olim orificium inferius, jam à puerperio, partim excretae funt Foeces alvinae: hoc vero ante partum minimè obfervatim fuit, ita ut à fectione forte acciderit. Orificium hoc oblongum paulo altius quam par eft, in Figura defignatur. e Anum repraefentat paulo magis antrorfum quam in aliis pofitum: per hunc maxima foecum pars egeritur. Pudendum hoc, quale quale, eft non denfe crinitum.
2. Mulierem, Comitatus Cornubiae incolam, in hunc modum, quem jam fum defcripturus, à cunabulis formatam fuiffe, matronae vicinae, \& non paucis res \& nota \& examinata fuit, uno ore confentiunt. Subftantia quaedam carnofa, fpongiofa, floride rubefcens, leviffimum tactum, ob atrociffimum dolorem inde oriundum, fugiens umbilici,
bilici, quae non ex Autopfia fed ex Chirugi narratione delineata eft, naturalem locum ufurpabat, $\&$ e cavitate, quae plerumque ibi eft, quafi pullulabat. Ex hac excrefeentia, quae nec augeri, nec minui, per multos annos fentiebatur, continuo deftillabat urina, cui nec alia patuit è corpore via, neque hac potuic vel violentiffimis nixibus cum impetu expelli, vel per faltum excerni, adeo ut paulatim exfudans veftes interdiu, fubftragulaque nocte madafaceret, inquinaret. Paulo infra, ad diftantiam paene palmi minoris, orificium quoddam, longitudine unciam unam, latitudine digitum tranfverfum aequans, fefe oftendebat, ut indicem admitteret, \& tamen perftringeret, fatis amplum. Hac via effluebant à pubertate menftrua, unde ad Vaginam \& Uterum hunc effe aditum facile patebat. Ad eandem fere diftantiam, qua orificium hoc Vaginae ab excrefcentia illa diftabat, patuit \& orificium alterum, fuperiore minus, digitum minimum vix capiens. Huic autem orificio cum inteftino recto communicationem dari, tenuiffimae faecum partes, ex to frequenter protrufae, fatis demonftrabant. Ab hoc autem Pfeudo-Ano Anus verus, per quem excrementa duriora dejiciuntur, unciis quinque vel fex extitit, \& naturalem fere pudendorum fitum obtinuit. Pili quidem aderant, fed rari, nee margines alicujus orificii magis quam reliquorum ornantes, fed duas lineas defcribentes, quae à medio fpatio inter excrefcentiarn illam \& commiffuras femorum cum abdomine incipiebant, \& fibi mutuo appropinquantes angulum, in cujus vertice pofitus eft verus Anus, conficiebant. Hunc in modum conformata, valetudine fatis bona fruebatur virgo, \& aeterna virginitate ex neceffitate laboraturam concluferant omnes, quibus res innotuerat. Advenit tandem Nauta quidam, cui aes triplex circa pectus erat: Illam vidit, amavit, duxit, \& non multo poft impraegnavit. Geftationis tempore optime fe habuit mulier, quo propemodum finito, de difficultate pariendi, non fine ratione, aderat gravis fufpicio. Orificium Vaginae à viri congreffu non omnino dilatabatur, adeo ut de modo impraegnationis multae inter mulierculas ortae fint difputationes. Immiffionem autem Penis in Vaginam ad impraegnationem non effe abfolute neceffariam non eft quod narrem. Exemplis turgent libri Medici. Mulier tamen de fua vita anxia Chirurgos aliquos adivit, confilium petiit, opem precata eft. Unus tandem apud Foy, oppidum non proculà mulieris noftrae habitaculo, cafu audito, re perfcrutata, ad promovendum partum, fi opus fuerit, operam fuam navare promifit. Geftationis tempore perfecte finito, dolores aliaque fymptomata partum prognofticantia illaṇ tentaverunt. Chirugus advocatus aderat. Refert ille infantem conatus fuos ad regionem pubis, illa ipfa autem ad orificium Vaginae feciffe dicir. Quid eft agendum? Dixit ille incifione exitum infanti effe aperiendum ; ex crudeli mifericordia renuunt adftantes, ingravefcunt dolores, fuperveniunt convulfiones, vita defperabatur. Tandem cum mortem prae foribus effe omnes judicaverunt, illam paene expirantem in manus \& poteftatem Chirurgi tradiderunt. Ille fatim diffectionem iftius Ifthmi, qui inter orificium Vaginae \& Pfeudo Anum erat, \& haud impropric Pe-

V OL. VII. Partiii. T rinaeum

## A preternatural Structure of the

rinaeum pofit vocari, inftituit. Integumentis exterioribus diffectis, membrana quaedam valida \& craffa, traniverfe locata, fefe in confpectum dedit, quae Vaginam à canaliculo illo inferiore dividebat. Hac diffecta iter ad Uterum fatis amplum patiit, manum introduxit, os Uteri digitis dilatavit, infantem capite prehenfo in lucem tuto eduxis, matrem ad vitam revocavit. Hanc mihi ipfe hiftoriam retulit, illa ipfa confirmavit. Rei enim novitate percuffus Foy adivi, utrum verum effet necne fciendi gratia. Chirurgum de fructura partium originali, \& operatione fua tantum non Caefarea, folicite interrogavi. Omnia, ut fupra narravi, graphice defcripfit. A Muliere etiam ut eam infpicerem impetravi. Illa igitur ad examen commode locata, excrefcentiam illam umbilici cavitatem ufurpantem fuperiori defcriptioni ad amufim refpondentem inveni. Illam cum fummo digiti leviffime tetigerim, mifella, non aliter ac fi gladio perfoffa fuiflet, difcruciata ejulavit. Mirum fane mihi videtur hane mulierem cum marito fuo poffe congredi; ex fitu enim partium nihil aliud cogitare poffis quin vir rei Venereae incumbens, excrefcentiam illam, aliter prorfus intactilem abdomine fuo duriter perfricaret. Rogata quomodo haec perficiebantur, refpondit fe omnia ob amorem, quo maritum fuum profequebatur, poffe pati.

Haec excrefcentia ex multis lobulis, propriis membranis obductis, à fe mutuo diftinctis, conflari videtur. In interftitiis horum lobulorum poruli, per quos ftillabat urina, ofcula fua ad fuperficiem aperiebant. Paulo infra hiatus magnus, ex unione chirurgica duorum orificiorum ad partum facilitandum confectus, fefe oftendebat. Procidentia Uteri tunc temporis Jaborabat, qui extra labia, fi circumferentia illa mereatur nomen, propendens, longitudinem fex unciarum, magnitudinem ovi anferini aequabat. Tali procidentia fe femper à partu ufque laboraffe narravit, \& quidem mirum effet fi aliter accidiffet; tanta eft enim ad orificium Vaginae apertura, ut nihil pofit ab extra uteri prolapfui obftare, \& Uteri corpus multo magis, quam in fatu vulgari, à vefica premitur. Verifimile enim eft urinam ad excrefcentiam illam per urachum afcendere, \& per illum ab initio fluxiffe, quia per meatum urinarium nullum natura praebuit exitum; impofibile tamen eft, ut urina per urachum ad umbilicum afcenderet, ufque dum vefica fit turgide repleta; exilla vero plenitudine neceffe eft, ut femper in Uterum non parvo pondere gravaretur, \& illum foras extruderet. Ut conformatio partium melius appareret, reclinata in lectum Muliere, repofitionem Uteri tentavi. Non citius illum introducere caepi, quin urina à preffione in veficam repletam facta, per poros excrefcentiae umbilicalis, multis rivulis, pilum craffiorem mag. nitudine non fuperantibus, cum impetu ad plures pedes profiliebat, fontem artificialem non injucunde aemulans. Exinanita vefica, Vaginam inverfam in naturalem fitum facile reftitui; reftitutis Vagina \& Utero, dehifcebat chafma magnum, ex pofitione corporis circulare, cujus diametrum tres pollices tranfverfos metiri credo, cujus fimbriae, potius quam labia, mulcis farcomatis inaequaliter horrebant. In fu-
periore ejus margine interno meatum urinarium fruftra quảefivi, in inferiore Pfeudo-Anum facile inveni, per quem digitum fub pubem, quae ad cartilagineam mollitiem accedere videtur, ad inteftinum rectum immifi, necnon contentis ejus turpiter infectum eduxi, unde credo rectum, ad tres pollices fupra fphincterem Ani, effe perforatum. Paulo fubtus pubem, fitum, quo aliarum finus ipfe pudoris gaudet, verus Anus hujus foeminae obtinet, non confueta caligine \& profunditate occultus, utpote non intra clunes pofitus.
a Excrefcentia umbilicalis. b Orificium Vaginae. c Pfeudo-Anus. Fig. 108. d. Anus. ee Pili
a Excrefcentia umbilicalis. b Os Uteri. c Anus.
3. As there appears to be fome Difference in the preceding Accounts, I take the Liberty of giving you a particular Account of what I obferved, with refpect to this Matter. This I am rather emboldened to do, as I repeatedly obferved the wonderful Structure of the Parts, before the Birth approached, and before I was obliged to make the Incifion.

This Woman was about 23 Years old when fhe was married, and fome time after conceived. As fhe was confcious of the preternatural Structure of the Parts, and her Mother apprehenfive of the Danger that would attend the Delivery under fuch unhappy Circumftances, they applied to me about the 7 th Month, in order to engage my Affiftance. On viewing the Abdomen, I made the following Obfervations: There was no Sign of the Umbilicus; but about 3 Inches lower, than it is regularly placed in Perfons naturally formed, there was a fpongy, flefhy Extuberance, nearly of the Shape and Bignefs of a Hen-egg; not, as is faid in $\mathrm{MrO} \ldots$. 's Account, compofed of many Lobules inveloped by diftinct Membranes, but entirely refembling that luxuriant Flefh which is thrown forth in ill-digefted Wounds, and is therefore commonly called proud Flefh. This was exceeding tender, and on it fhe could not bear the leaft Touch. On the lower Part of this Excrefcence, I perceived two fmall Orifices, the one diftant from the other about an Inch. Thro' thefe the Urine drops continually, nor is the able to contain it, but by violent Efforts can make it fpout out near a Foot. What is faid in Mr O ....'s Account of it's being rendered multis rivulis, is certainly erroneous: The two Orifices by which it is indeed difcharged, being now very evident, and will eafily admit a fmall Probe. About $\frac{1}{4}$ Inch below this Protuberance, was a tranfverfe Orifice, much refembling the Anus of a Cock. Thro' this the Menfrua regularly flowed: By this fhe was impregnated. It was with fome Difficulty I thruft my Finger into this Orifice, in order to reach the Os Tince, which, however, I could by no means feel, it lay fo deep; but I plainly felt a thick tranfverfe Membrane feparating this Paffage from an Orifice, which is fituated about two Inches below that already defcribed. This lower Orifice feemed to be fituated, exactly, where the Symphyfis of the Ofa Pubis is, in Women regularly formed, fomewhat above the Place where the natural Hiatus thould have been. I could but juft enter the

## A preternatural Structure of the

tip of my Finger into this. There were a few Hairs fcattered up and down irregularly about this Orifice. The Anus terminated as ufual, with a Sphincter, about two Inches below this lower Orifice, much more forward than ufual. So that the upper Orifice, which may be properly called the Orifice of the Vagina, was about $\frac{1}{4}$ Inch below the umbilical Excrefcence: The lower oblong Orifice for another Paffage to the Womb) was about two Inches below that of the Vagina; contrary to what is faid in $\mathrm{MrO} \ldots$ 's Account, who makes the fuperior Orifice to be near four Inches below the Excrefcence, and and the lower Orifice four Inches from the fuperior; and then fays, the Anus, which he (rightly enough) makes to ufurp the Place of the Foffa magna in Women naturally conformed, was 5 or 6 Inches below this, According to this Proportion, the Woman muft be really gigantic ; whereas fhe is a fhort little Woman: Nor do Mr $0 \ldots$ is Cuts any way reprefent the Cafe. This Woman had no Os, or Offa Pubis; indeed there was an Apopbyyis jutting out from the lower Part of each Os Ilium, but they were far from being joined, as ufual, by a Synchonedofis.

Fuly 18, 1722, I was fent for late at Night. I found the Woman with true Travail-pains upon her. The Throws were exceffive violent, and the continued Agony had almoft quite exhaufted her Spirits; but the Orifice of the Vagina was no way fenfibly dilated, tho' the Anus, thro' the Violence of the Throws, opened extremely wide. In vain were all Endeavours, by thrufting up the Child, and putting the Mother in a proper Polture. Vain were her own Throws and Agonies. Convulfions now had feized her, and Nature feemed to have denied a longer Life to the Mother, or an Entrance into it to the Child. I was in the utmoft Perplexity what to do under thefe Circumftances. On the one hand I confidered, that if there was not a Paffage made for the Child, and that by Incifion, both Mother and Child muft fpeedily perifh. On the other hand I forefaw the Danger and Hazard of an Incifion, and the unavoidable Cenfure of having killed the Woman, if fhe fhould die under the Operation. At laft Humanity fo far prevailed with me, as to try a doubtful Method of preferving Life, rather than none. I told her Mother, and the other Perfons in the Room, that Death was inevitable, without making the Paffage wider by Incifion, and fo attempting a Delivery; withal ap. prizing them of the Uncertainty of the Event of the Operation. When they faw her (as they thought) juft expiring, they delivered her into my Hands, to do with her what I thought fit. I immediately thruft my Scalpel into the inferior oblong Orifice of the Vagina; fo brought them into one. Then prefently with my Sciffers, I fnipped the tranfverfe Membrane. This being done, I eafily introduced my Hand, felt the Head of the Child, and with my Finger thruft into it's Mouth, drew forth a female Infant, living and well formed, to my own Surprize and Admiration of all. Ever fince fhe was delivered, in the manner recited, The has fuffered a Prolapfus uteri, upon the leaft ftanding or walking.
walking. I propofed to remedy this by a Suture, as is practifed in the Cafe of the Vulva breaking into the Anus; but hee would by no means admit of it. So that the almoft continually labours under a Procidentia uteri, and the Body of the Womb and Vagina are fo corroded by the Acrimony of the Urine, that there are four or five U1cers formed upon them. Befides this Inconvenience, fome of the thinner Parts of the Excrement are difcharged at the Bottom of this large Cleft, and by introducing my Finger at the bottom of the Cleft, I can eafily thruft the top of it thro' the Anus; which is an Argument that there could not be 5 or 6 Inches between the oblong Orifice and the Anus, as is afferted by $\mathrm{MrO} \ldots$, the Diftance being fcarce above 2 Inches.

Fig. 110. A Epigaftrium. B. Regio Umbilicalis. C. Hypoga- Fig. 110. ftrium. D. Regio pubis. E E. Spongiofa offa. F F. Meatus urinarii, a partu fatis vifu faciles. G. Orificium tranfverfale. H. Oblongum orificium. II. Cicatrices duae, ex Urinae, ut videtur, acrimonia. K. Anus, paululum anterius locatus.

Fig. 111. P P. Fiffura magna quatuor pollices oblonga. L. Proci- Fig. in. dentia uteri. M. Os Tincae.
XXX. In 1723 , being at Paris, I light on a female Subject, where Uncommon the Anafomofes of the Spermatic Arteries and Veins were as large as the fpermatic Veffels themfelves; fo that the Arteries being injected with a grofs Mixture of Wax, Tallow, and Vermillion, and the Veins with the fame, only tinged with Smalt, the Injection ran out of the Artery into the Vein, and on the other Hand out of the Vein into the Artery, fo that where one Veffel entered the other, the Matter injected was tinged purple. You mult oblerve, the Arteries were firt injected with the red, and theVeins afterward with the blue Matter.

In this Subject, what appeared moft remarkable, was, that on the right Side, were two fpermatic Arteries A and B. One, A, arofe from the very Angle made by the Emulgent and the Trunk of the Aorta defcendens C, which, contrary to the common Courfe, ran under the Vena Cava, and foon after it was got beyond it, fent out a lateral Branch, or Anafomofis, defcending obliquely EF into the Spermatic Vein G, through which the red Matter penetrated into the Vein ; which afterwards filled with Blue, became Purple all about the Orifice of this Veffel at F, which feems to confirm Euftachius's Delineations, and Shew they are no Fictions. This Artery, A, then defcended as ufual to the right Ovary H.

The other right Spermatic Artery, B, arofe as ufual out of the Trunk of the Aorta; but at about half an Inch from it's Rife, it fent out an Anaftomofis I K, afcending obliquely into the Body of the Vena Cava D, through which a large Quantity of the red Matter paffed, fo as to tinge a very broad Place at K in the Vena Cava purple. About an Inch below this Orifice was another Anafomofis L M, through which the of the Artery purple at $L$. The right fpermatic Vein had only this one Anaftomofis M L, in all other Refpects as ufual.

On the Jeft Side was but one fpermatic Artery N, and one fpermatic Vein O, which, as ufual, inclofed in a common Involucrum, made their Way to the left Ovary P. Only the Artery N took it's Rife out of the Body of the Aorta near the Angle made by it, and the left emulgent Artery, then afcending between the emulgent Vein and Ar tery, turned in an Arch at Q , over the left emulgent Vein, and fo joined the left fpermatic Vein as ufual, which rofe out of the left emulgent Vein, as it often happens.

There was on this Side one Thing very uncommon, and not taken Notice of by Euftacbius himfelf, which was a Chort Anafomofis R S (about a quarter of an Inch in Length) from the left emulgent Artery S, which making an Arch under the left emulgent Vein, was inferted into the anterior Part of it at R.
A. Fextus that contimued 46 riars in the Morber's Body. Consmnnicated by Dr Steigertahl. No. 367. p. 126.

AB , Two fpermatic Arteries on the right Side. CCC, The Aor$t a$ defcending, and the two Iliac Arteries. D D D, The Vena Cava afcending, and the two Iliac Veins. EF, L M, Anaformofes of the fpermatic Veins and Arteries. G G, The right fpermatic Vein. H, The right Ovary. I K, An Anafomofis of the fpermatic Artery and Vena Cava. NQ N, The left fpermatic Artery. O O, The left fpermatic Vein. P, The left Ovary. R, S, An Anaftomofis of the emulgent Vein and Artery. T T, V, V, V, Arteries and Veins ditperfed on the Fat and Membranes enclofing the Kidneys.
XXXI. I. Anna Mullern, of the Village of Leinzelle, near Gemund in Suabia, of a dry and lean Conftitution, but otherwife healthful and robuft, died at the Age of 94 , after fhe had lived a Widow 40 Years.

Six and forty Years before her Death, fhe declared her felf to be with Child, and had all the ufual Tokens of Pregnancy. At the end of reckoning the Waters came away, and fhe was taken with the Pains of Labour, which continued upon her about feven Weeks, and then went off upon the Ufe of fome Medicines given her by a Surgeon. Some time after this the recovered her perfect Health, except only that her Belly continued fwelled, and that now and then, upon any Exercife, fhe felt a little Pain in the lower part of it. She was after this twice brought to Bed; the firlt time of a Son, who is now a Huntfman at Bijchoffhein, and afterwards of a Daughter, who is married to a Soldier. But notwithftanding this, fhe was firmly perfuaded, that fhe was not yet delivered of what fhe firft went with, and defired Dr Wobnlixe the Phyfician of Gemund, and one Knaufen a Surgeon at Heubach, to open her Body after her Death. Accordingly after her Death, which happened on the 11 th of March 1720, after four days Illnefs, her Body was opened by the Surgeon, the Phyfician before-mentioned being then dead. He found within her a hard Mafs


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Mafs of the Form and Size of a large Nine-pin Bowl, but had not the precaution to obferve, whether it lay in the Uterus, or without it, and for want of better Inftruments broke it open with a blow of a Hatchet. This Ball, with the Contents of it, are expreffed in the following Figures.

A, A Part of the Tegument, which had adhered to a fpongious, Fig. 113. flefhy Subftance. This at firft feemed to be a Mafs of Cartilage, but was afterwards found to be entirely bony. B , B , B , C , C, C, Shews the membranolis Part, which was bloody. D, D, D, D, The Opening made by the Hatchet. E, E, E, E, E, Another Part of the Tegument appearing entirely bony, with feveral Prominences. F. A Contufion occafioned by the rude Manner of opening it, where there appeared fome putrified Membranes.

A, A, A, The Tegument, or Subftance enclofing the Fatus. B, Fig. 114. The Fretus. C, A Depreffion, or Hollownefs, on the right Cheek.

The Nofe turning up. B, The Mouth flatted, but not fo wide, as it is here reprefented. $\gamma$, The Eye clofed up. $\delta$, The Ear. D, D, The Arms, of which the Right was the larger, and the two Joints of that Thumb were plainly to be feen. E, The Procuberance of the Knee. F, Part of the Funiculus Umbilicalis torn, but ftill adhering to the Navel. G, G, Part of the fame Funiculus, faftened to the bony Part of the Tegument. H, The Breaft. I, The Mark of an Incifion into the left Side, where the Flefh appeared red, but was dry, and looked like fmoaked Beef.

Fig. 115. Reprefents two Ribs, from the left Side, of their natural Fig. $115^{\circ}$ Subftance, Colour and Bignefs. A, A, The Part joining to the Vertobra. B, B, to the Sternum.

This Piece is preferved in the Cabinet of Rarities of the Duke of Wirtemberg.

Dr Camerarius, Profeffor at Tubingen, in a Letter upon this Subject, takes Notice, that the Surgeon found this Mafs in a Cavity on the Woman's left Side, and that it adhered to the Membranes of that Cavity, by the intervention of a fpongious, flefhy Subftance. From which Particular, and the Woman's having had two Children, during the time that this large Mafs lay in her, that learned Profeffor conjectures, that it was not lodged in the Womb, but in the left Fallopian Tube, which by this Means had been very much dilated and thickned in it's Subftance.
2. I was fent for in Auguf 1717, to a Woman near Nerwport-Mar-An ExtraUtieket, who had been married eighteen Years to a Native of the EaftIndies, by whom fhe had eight Children, befides two Mifcarriages. At my vifiting her, fhe was with Child in a fecond Marriage, and her Hufband a vigorous young Man.

She was near her full Time, and had felt Pains for feveral Days, which, returning by Intervals, the concluded, would, as ufual, bring

On
rine Factus, that bad continued $5 \frac{1}{2}$ Years in the Body. By Robert Houfton, $M$. D, $\mathrm{No}^{\circ}, 37^{8}$ p. $38 \%$

## An Extra-Uterine Fotus:

on her Delivery. Her Mother, and her Midwife, apprehending no Difficulty, affured thofe about her, that only Time was wanting.

But I found, on Examination, that her Womb was of no Bulk to contain a Child near it's Time; and that it's Neck, of an uncommon Hardnefs, was alfo clofed fo ftraitly, as to refufe the Admiffion, even of a fimall Probe or knitting Needle.

I declared upon this, that her Delivery was impofible, becaufe the Child was not within the Womb, but between the Womb and the Guts, that it might be removed by a Paffage to be made for it, without any great Pain, and with Safety to the Mother. I offered to undertake it, and affured them, that this was the only Opportunity; and that if fhe neglected it, it would hereafter be out of the Power of Art to give her the Relief, fhe muft languifh for till Death, unlefs favoured by fome unlikely and extraordinary Accident.

However confidently I affirmed it; they liftened with a Mixture of Difbelief and Amazement, and rejected my Affiftance. At that time, in probability, it would have been fuccefsful; for fhe was a fender well-fhaped Woman, in good Habit of Body, and of a fprightly Difpofition.
It was a Year after this, when I was defired again to vifit her. I found her much difordered by a growing Impofthumation in her Belly : I ordered her fome Cordial Stomachics, Ca/ira, and fuch gentle Lenitives; and they met a Succefs beyond my Expectation: So that, by Aid of a regular Diet, and the watchful Exactnefs of a very tender Mother (a Nurfe of above thirty Years Experience about this City) I reftored her to fuch Strength, that fhe went chearfully abroad, and re-applied herfelf to Bufinefs.

But about fifteen Months from the Time when I vifited her firft, her Mother came from her to entreat my Afiftance: She complained of great Pain in the lower Part of her Abdomen; and I found a Tumour of a conic Form, projecting about an lnch beneath the Umbilicus: It's Inflammation, with Tenfion, and a Feverifhne's attending it, fo plainly indicated Suppuratives, that I was not furprized to hear, in a few Days, that it had broke, as I wifhed. I propofed to lay it open, both to give a free Emifion, and prevent it's being become fiftulous; but fle was apprehenfive, that I would, as fhe called it, cut open her Belly: So that not being able to prevail with her, I ordered a Pot of Unguent, and fome Plaiters. The Ulcer foon grew fittulous, and fo continued till fhe died, which was on the 23d of March 1723, it the 4 Ift Year of her Age.

For above five Months before her Death, fhe voided her Excrements by this Vent, and all the foft Parts of the Fretus, with fome fmall Bones of it's Fingers. But the reft of the Skeleton remaining entire, I took it out of her Body, together with the Vagina, Uterus, ReBum, $\mathcal{E}^{2} c$. wherein it had involved itfelf; as may be feen more particularly in the Figure annexed.


Tom falp:



## An Extra-Uterine Fatus.

A The Clitoris. B B the Nympha. C the Rima, or Entry into the Fig. 116. Vagina. D the Bladder. E E the Uterus cut off. F the Uterus found and entire. G the left Ovarium. H H the Tubes. I part of the Colon cut off. K part of the Peritonaum. L part of the Ileum cut olf. M. part of the Cacum. O part of the Cranium that plainly appears. P. the Ulcer, thro' which the Excrements palfed, with fome fmall Bones. QQQQ the bulky Mafs, wherein the Skeleton is contained, between the Uterus, part of the Vagina and Reitum. R R part of the Cutis.

A Orificium Vagina. B Anus. C. Intefinum ReEtum. D D D the Fig. 11\%. Mafs wherein the Skeleton is contained. E the Cofter plainly appearing. $A_{\text {Lenteral }}$ F. the Bladder laid afide. G the Ureter cut off. H the Uterus. I the Ovary. K the Tube. L part of the Colon. M the Ulcer, thro' which the Excrements paffed, about one Inch beneath the Navel. N Bones in the Orifice of the Ulcer.
3. Uxor Laurentii Skallroth, Paftoris in O'Eftad, Territorii Able The Bones of a dicti, ditionis Elfsburgenfis, aetatis 41 , quatuor annos nupta, A. 1720 , menfe Julio, ingravidatur, fructumque fert per feptem menfes, vifis Fotus voided by Stool. By Mr Bernard tamen interdum paucis menftruis, fed fperans, jufto demum tempore Shiever. No. \& poft decimi menfis faftidia, pulcra prole parentem fe futuram. Prae-385. p. 172. terlapfo hoc tempore, evanefcere tumorem fentit, remanente folummodo preffione quadam in latere dextro. Poft menfem rurfus fit gravida, peperitque filiam, fed mortuam juftae magnitudinis, in Decembri An. 1721. Ex quo tempore lecto adfigitur in menfem ufque Junii hujus anni. Menfe vero Maii, cum alvum levaret aliquando, anus ipfi tam dolere, ut ipfum inteftinum rectum omnino excidere crederet: duobus ergo digitis praetentans \& fe juvare volens, extrahit cranii partem, magnitudine nummi Coronae Svethicae (vulgo dubble Carolin) ; repertis deinde in fella duabus coftis, \& poft 14 dies abeuntibus eadem via reliquis offibus, colore excrementitio, quae $\&$ ipfe vidi, \& manu mea contrectavi. Maritus, uxor ipfa, \& ejus foror, alia non via exiiffe haec offa mihi fancte adfirmarunt, incredulo licet, $\&$ contra ordinem naturae haec fieri non poffe, ftrenue defendenti. Bene nunc valet, domefticis apta curis, triumque mater liberorum, quiadhuc in vivis funt: menftruis quoque naturaliter fe habentibus.
4. I was fent for about the middle of Auguft laft, to a Woman who The preternathen judged herfelf to be between three and four Months gone with tural Deiivery Child; the had all the Symptoms preceding a Mifcarriage, and upon of a Fcetus at touching, I found the Os Tince fomewhat dilated and fipread, from Mr Giffard, whence I concluded a Mifcarriage would enfue, and therefore order-Surgeon. No. ed what I thought proper to promote it; but I was fome time after in- 416 . p. 435 . formed by her Hufband, that although fhe before believed that fhe had mifcarried, yet that fhe now thought herfelf Quick; as feeling fomewhat to move within her Belly, agreeable to what fhe had perceived after former Quickenings. Thus it paffed on for about fix or feven Weeks; in which Time fhe grew much bigger, and the Motion more perceptible; fo that there remained no Doubt of her being

[^6]with Pains in her Belly and Back; which daily increafing, her Sifter, by her Defire, came to me on the fixth, when I went to her, and found her labouring under very great Pains, and other Complaints like thofe preceding a Mifcarriage or Delivery : But to be better fatisfied, and to ftrengthen my Opinion, I paffed up two Fingers into the Vagina, to examine by the Touch, whether the Os Tincea began to open and fpread. I there felt a large and unufual Fulnefs and Tenfion, which I then judged to be the Body of the Uterus funk low into the Vagina, and much diftending it, and extending backwards, and preffing a. gainft the Rectum, fo that the Excrements could not readily pafs, neither could fhe, from it's Preffure upon the Neck of the Bladder, freely make Water. I could not find the Os Tince, although I very carefully examined all about with the Ends of my Fingers; wherefore I I then judged that the Fundus Uteri mult have receded from it's natural Pofition, and be bent backwards towards the Recium: In which Opinion, I was the more ftrengthened from the Fullnefs I before obferved, ftretching backwards; and therefore concluded that the Os Tince muft be very forward: Wherefore I endeavoured to pafs my Fingers between the Os Pubis, and the Fullnefs which prefied againft the upper Edge of the faid Bone. This, with fome Difficulty I effected, and at length, about two or three Inches above the faid Bone, I felt the Os Tince with the Ends of my Fingers. The Caufe of this Situation, will more clearly appear in the Purfuit of this Account, I ordered her Anodyne, and quieting Medicines to relieve her Pains, which fhe was obliged to repeat at leaft every twelve Hours, with proper Cordials to fupport Nature; and fometimes Clyfters. Thus Matters continued to the 20th of the faid Month, only that for fome Days before, a Water, tinged with Blood, came away, as fhe imagined, through the Anus, and which fhe believtd proceeded from the Piles, with which the was fometimes troubled.

On the 20th, her Hufband came to me about fix of the Clock in the Morning, telling me that the Midwife had brought away a Fatus, but could not compleat her Bufinefs; whereupon I immediately went to the Midwife, who upon my coming, told me that a Fatus was protruded through the Anus; and to confirm it, defired me to examine, which I did immediately, and found the Funis Umbilicalis hanging out about two or three Inches beyond the Anus, and paffing up through the fame: I therefore paffed my two fore Fingers by the String into the Anus; when I found about three Inches up, an Opening, as I then judged, into the Uteruis, wide enough to admit the Ends of three or four Fingers, and the Funis Umbilicalis paffing into it ; from hence I was affured, that the Ferus came out that Way. I endeavoured, with my Fingers paffed into the Opening, to bring away the Placenta; but as it was very rotten, it tore away between my Fingers, fo that I was forced to bring it in fmall Pieces, and was at laft obliged to leave 2 large Part of it. The Septum, or Partition between the

Plate XXV. Vd. III. part III.page $55^{8}$.
Fig. 16.


## The preternaturl Delivery of a Foctus at the Anus.

Anus and Vagina was entirely whole, and no Perforation through it. From thefe Äppearances, I then concluded, that a Mortification mutt have begun in the Uterus, and fo from it's Contiguity be communicated to the Re§tum; fo that Nature endeavouring to expel what was contained, and forcing it againft this Part already mortified, and confequently ready to give way and feparate upon any Preffure made againft it, produced this Opening, and the Protration of the Fatus through it into the Reifum, and fo on thro' the Anus.

There was a large Difcharge of grumous Blood, and other Subftances through the Anus, which continued coming away until the 26 th of the aforefaid Month, when the Woman died about three of the Clock in the Afternoon.

I fhould have obferved, that there was a Fullnefs and Hardnefs very perceptible, to be felt outwardly in the fore-part of the Belly, fome diftance below the Navel, from the time that the Fretus came away to her Death; which upon opening the Body, I was well affured, was the Uterus forced upwards and forwards by a Sacculus, which being large and diftended, filled up the Pelvis; and by it's Bulk preffed the Uterus forwards. The Fretus was perfect in all it's Parts, but much wafted and fhrunk from it's being fome time dead, and confequently putrified.
5. The Vagina, Uterus, Ligamenta Rotunda, left Ovary, Fallopian An ExaminaTube, and Ligamentum Latum on that fide, together with the Hypogaftric, and fpermatic Veffels on the fame Side, were in a natural State. The Fallopian Tube on the right Side, we traced from the Fundus Uteri almoft to the Morfus Diaboli; where it was confufedly united with, and opened into the Sacculus hereafter to be defcribed. The Ovary on this fide, with the Ligamentum Latum, was dilated into a large Sacculus of an irregular Form, extending itfelf behind the Uterus (to the pofterior Paries of which it adhered) and paffing on towards the left, was connetted to that Part of the Colon that terminates in the Recilum, and the Rectum. In this Sacculus we found great Part of the Placenta, and the Remains of lacerated Membranes, befides the Aperture of the Fallopian Tube mentioned before, and another about 4 Inches in Diameter into the Middle of the Rectum: That Part of the Ureter on the right Side, which lies between the Ovary and the Kidneys was dilated, and fo was that Part of the Reitum between the Aperture into it, and the End of the Colon; both which were caufed from the Contents of thefe Canals, being obftructed in their Paffage.

Fig. 113. Shews the Uterus, with the Sacculus behind it, Part of Fig. 118. the Colon and the Recium; the Fallopian Tubes, Ovary on the left Side; Ligamenta Rotunda, and the Vagina laid open to the Os Fince. A, The Ulerus. B, The Fallopian Tube on the left Side. C, The Ovary on the fame Side. D, The Ligamenta Rotunda. E, The Vagina baid open. F, That Part of the Colon that terminates in the Recifuin. G, The Recitum continued to the Anus under the Vagina. H, The Fal-

A Cbild born with a remark able Tumour on tbe Loins; by John Huxham, M.D. No. 413. p. 258.
lopian Tube on the right Side, whofe Extremity opens into the Sacculus formed from the Ovary. I. The Sacculus extending itfelf behind the Uterus; wherein we found the Placenta and feveral lacerated Membranes; and from whence there was a large Opening into the Rectum.

Fig. ing. Shews the Infide of the Sacculus and it's Aperture into the Recitum. A the Inteftine. B the Sacculus adhering to it. C the Opening from the Sacculus into the Rectum. D the Membranes found within the Sacculus. E the Vagina curned to the Right.
XXXII. Peperit nuperrime Domina quaedam puellulam rite eleganter fatis conformatam, ni quod in regione Lumborum infima eminuerit Tumor, five Sacculus, Magnitudinis quafi Pugni puerilis; cujus infuper Pedes ad nates ufque retracti Pofituram Sartoris incoxantis exhibuerunt; nec eos movere ullo modo, aut extendere, potuit. Tumorem hunc perluftrando eum ejufdem effe Generis cum illis, quos Tulpius, Cap. xxix, \& xxx. lib. III. obfervat. Defcripfit fufpicabar : iftum ideo Fomento aromatico \& adftringente foveri juffi. Intra Triduum autem fero fumme adeo diftentus evafit, ut jam extima Tumoris membrana difrupta fuiffet; metufque effet, ne rupto confeftim Tumore, Serum femel \& fimul cum ipfa vita efflueret. Punctiunculam ergo fuafi, ut Lympha fenfim emitteretur, edito nihilominus Prognoftico, five aperietur Tumor five non, eum fore lethalem. Infans interea infomnis \& ejulans parum dormivit, ad Pulticulam vero fatis apta. Quarto adeo Die Tumorem aperuit Chirurgus, facto largiore paululum quam confuluiffem Orificio, ita ut omnis intra Horas viginti effluxerit Humor. Hinc Languor fummus \& frequens Deliquium ad Biduum faltem ; at nutrice fana \& Julap. Cardiaco, Cephalic. refecta viceffimum ad ufque Diem Vitain perduxit, quo frigidi Sudores \& Tremores aborti tremulam banc Lucem extinxere. Incifo Corpore obfervavimus Dorfalem Medullam ad ultimam Lumborum vertebram, nec ultra, pertigiffe; fed hanc inter $\&$ os facrum (fi mavis primum os facrum) exiens per Tumoris five Sacculi membranas difpertita fuit. Os facrum porro fuit folidum penitus, nec Propagines nervofas Medullae fpinalis (quibus apud Anatomicos Cauda Equina Vocabulum eft) ad Crura Pedefque tranfmifit; quinimo ne quidem perforatum fuit omnino.

In quiturdam faltem à Tu!pianis Hiftoriis fupra citatis differt haec noftra: neque enim aliquid matri praegnanti negatum neque vel fe İtu aut Foetum Imaginatione laeferat unquam, neque Spina hujus Infantis bifida aut lacera: quinetiam nec os facrum folidum, nec Pedes contractos \& immotos meminic Tulpius.

## A large Splion

 ond frall Blad. der ; by Mr John Ranby, F. R.S. No.401. P. $4^{14}$.

XXXIV, A



## A Hernia Aquofa.

XXXIV. A Man aged 25, who died of a pocky Hectic, complained fome Days before of a painful Swelling in the Tefticles, which he faid came the Night before. I examined it, and finding it to be a Hernia Aquofa, would have punctured it, if I had not felt (befides the Water) a hard Body, which I could by no means reduce. In a few Days he died, which gave me an Opportunity of being fatisfied. Opening the Scrotum, and feparating the common Membranes to the Proceffus Vaginalis, I found it contained about 4 Ounces of Water, befides a great part of the Omentum; fome Portion of which adhered to the bottom of the Cavity, and the Albuginea that immediately covers the Tefticle.
XXXV. In $\wp$ IV he gives us a pretty Obfervation of the Cicatricula, as commonly called, in the Ovaria of Females, whence the impregnated Egg is dropt into the Fallopian Tubes. He fhews, that in reality it is a Calyx, or natural Aperture, which enlarges itfelf for that purpofe by degrees, and after Exclufion clofes again, as the Os Uteri afterwards; fo that the Egg truly drops from it, as an Acorn when ripe from it's Cup; and the Trace of it foon becomes imperceptible. He fays farther, he has frequently feen the thick part of the Male Sperm carried up even into the Fallopian Tubes upon Impregnation.

In § V he fpeaks of an Obftruction, that has fometimes happened in the Inteftines of new-born Infants, fo that they have had no manner of Paffage by Stools, and that gentle Lenitives have not been able to relieve them: In this cafe, he advifes ftrong Purgers, adapted to their tender Age.

In § X he confiders the Papilla of the nervofe Tunic in the infide of the Stomach, and finds that the Figure of them is roundifh, in that part of the Stomach over which the Spleen is fixed; but longifh in other Parts thereof, and in the infide of the Fejunum. He takes notice, that the Fabric of the Womb is made of much the fame fort of thick mufcular Fibres as the Bladder, both to facilitate their proper Exclufion; particularly the fe Fibres are more remarkable upon the Fundus Uteri, to which Part the Placenta mon generally fratens iffelf, and moft evidentlv for this Reafon.

## C H A P. VI.

## The Humours and general Affections of the Body.

OftbeGhobules I. I. $\mathrm{C}^{\mathrm{X}}$ tuis litteris intellexi inventam tibi rationem effe, qua diaof Blood; by Mr Anthony a Lewenhoek, F.R.S. ${ }^{\circ}$. 377. p. 34 r . rerum, certo cognofcere poffis, adeo quidem ut deprehenderis diametrum globuli fanguinei cum parte $\frac{1}{1940}$ lati pollicis magnitudine convenire.

Hoc ego inventum cum legerem, fumma voluptate affectus fum; ftatimque fic mecum ratiocinabar: fi 1940 globulorum fanguineorum diametri lato pollici longitudine refpondent; adhaec fi corpora inftar globi rotunda eam ad invicem proportionem habent, quam habet numerus cubicus ad fuum axem, ficut à Geometris traditur ; fequitur corpus, quod ex 7301384000 globulorum conjunctione componitur, haud majus effe corpore globofo, cujus axis latum pollicem longitudine adaequet.

Et quia de examinando denuo fanguine me rogaveras ; meum ipfius \& duarum praeterea perfonarum fanguinem vifu exploravi : planeque comperi 4 diametros globulorum fanguineorum, uti fcripfifti, convenire cum diametro (a) fili argentei, quod mihi mittere dignatus es. Id folum dicere habeo, yuod globulos quofdam fanguineos, fed perpaucos, vifu perceperim; quorum quaternae diametri diametrum fili argentei longitudine aliquatenus excedebant. Verum conjiciebam globulos illos, quos ex pollice per acus punctionem eduxeram, \& adhuc calentes vitro imponebarn, à rotunditare figurae nonnihil defciviffe ad figuram planam.

Continued by sbe fame. No. $380^{\circ}$ p. 436.
2. Dicis, hanc explorationem non effe indifferentem, feu inutilem, quoniam non impoffibile eft, quin illa obfervatio de globulorum fanguineorum magnitudine in variis animalibus, una cum fuis parvulis vafculis, ductura fit nos aliquando ad detectionem ubi, \& quibus mediis hi globuli formentur, \& inde determinatam craffitudinem in eodem animali confervent.

Ad hace mihi affumo tibi, objicere, me ad imaginationem eam adduci, nos nunquam ad explorationem illam perventuros, quomodo

[^7]fcilicet hi globuli ex materia fluida ad magnitudinis determinatae globulos fint coagulaturi.

Multis abhinc annis ad me afportari juffi vinum fermentans, quia hoc Vinum globulos producit fere fanguineis aequales, quos vini foeces vocamus: \& quamvis tale vinum microfcopio apponerem, tamen nil aliud videbam, quam innumerabilem multitudinem parvifimorum globulorum aëreorum, furfum ad fuperficiem vini adfcendentium, \& fecum illos globulos, quos vini foeces nominamus, ducentium. Cum jam in fuperficiem vini venerant, feparabantur vini foeces a globulis aëris, \& fundum repetebant, mihi non apparente, quomodo globuli, quos dicimus vini foeces, formabantur: \& fimulac, ni fallit memoria, globuli illi inferius defcendiffent, exibat ex globulo quoque iterum globulus aëreus, \& ita denuo ad fuperficiem Vini devehebatur.

Imaginor mihi, coagulationem illam, ac determinatam globulorum fanguineorum magnitudinem à rerum primordiis effe creatas; nam fi: unus globulus altero major erat, fufpicamur exinde inordinatam circulationem fore fecuturam, quoniam fanguinem per varia vafcula. fanguinea rapidè transfluentem vidi, quae adeo exilia erant, ut fimplex faltem globulus tranfire potuerit.
II. The Method of curing frefh Wounds in a few Days, without Obfervations Suppuration, where neither Nerves, large Veffels, Bones, or any of the $V i j$ fera were concerned, has been long ago obferved. Purman, a famous Surgeon of Breflaw, in his Cbirurgia Curiofa, tells us of a Mountebank, who gave himfelf 13 Wounds, by Incifion, in the upper part of his left Arm, and thereupon applied his Nofrum, and 383. p. 108. with the help of a good Roller, was cured in two Days time.

Next he mentions a martial Stiptic, which ftopped bleeding incomparably, and healed frefh Wounds (as he fays) in two Days, efpecially if the Patient took withal a few Drops inwardly. This has likewife been mentioned by Blegny near 30 Years ago.

When I came into France, I found that many little Trials were made there alfo, with a Stiptic Ball, mixed with Frencl Brandy, by ftriking a Cock thro' the Head, opening the crural Artery of a Dog, or chopping off a Dog's Leg, $\mathcal{F}^{\circ}$ c. But I found that it did not amount to any thing of confequence; yet I have ftill a Ball, made above 20 Years ago, of filings of Iron, and an equal Quantity of Tartar, mixed well with French Brandy upon a Marble; this, with fome Alteration, was afterwards publined by the famous Helvetius, Phyfician to Lewis XIV of France, in a Book called, Recueil des Methodes pour la Guerifon des diverfes Maladies; which was reprinted in Holland in the Year 1'710. This Preparation was then fold by Pierre Rottermond, Apothecary at the Hague in Holland.

The Recipe for his Medicinal Ball I have tranflated, and it is as follows: Take 4 th of the Filings of Steel, and 8 tb of Tartar, well powdered; mix thefe well together, and put them in a new earthen

Pot, and pour thereupon as much Frencb Brandy as will make it into a Poultefs. Let this itand fermenting in a Cellar for 4 Days, and Itir it between whiles. Then put it in Balneo Maria, and diftil it f. a. with a moderate Fire, to draw off the Brandy. When you find that nothing but the Phlegm comes over, take it from the Fire, and take out the Mafs, ftamp it very fine, that not the leaft Lump may remain; then mix it again as before with a fufficient Quantity of Brandy, and put into the Cellar to ferment, as before, and then diftil it a fecond time. This Operation may be reiterated 7 or 8 times, but the laft time mix your Mafs well upon a Marble, and form it in. to two Ounce Balls. One of thefe Balls is fteeped in a Pint of good French Brandy, a little warmed, and hung only in it by a Wire, 'till the Brandy has received the Colour of the Ball. But if you are in hafte, then grate a fufficient Quantity of the Ball in fome Brandy, fir it well, and you may ufe it that very Inftant.

No doubt but the Author thought by often grinding, fermenting, and diftilling this Mafs, to comminute and fubtilize it's Particles, fo as to make it more fit to contract the Fibres and Veffels of a Wound, and to prevent Stagnations of the Fluids, both within and without, upon Contufions; but the Succefs did not anfwer, and therefore it was laid afide. Neither did Helvetius ever recommend it as an univerfal Stiptic, aftringent, or confolidating Medicine, but merely in frefh Wounds, and that only for a firft Dreffing, and where People lived at a diftance, and could not get immediately Affiftance from a Surgeon. Befides he makes feveral Exceptions where it fhould not be ufed; and, in general, advifes where Chalybeat Medicines may be made ufe of according to Experience.

But laft Year a Balfamic Stiptic was publifhed by one Dr Eaton, good to ftop all manner of Bleeding without or within, and that without any manner of Exceptions. This made me defirous to fee it, and foon after I had an Opportunity to examine it: I found prefently that this was the fame old Medicine, which was got hither alfo, after other Countries had difcarded it. But I neglected it at that time, as not worth my Notice, till I faw lately a Treatife of Confumptions, publifhed by Sir Richard Blackmore, giving it the greateft Encomium, that ever was given to any Invention whatfoever. For, fays he, Dr Eaton's Balfamic Stiptic bids fair for the Credit of a certain Remedy in flopping of Blood outwardly or inwardly, where the Crafis of the Blood is not entirely ruined, and will be of more Service to Mankind, than all the Difcoveries made by Galenical Compounders of Drugs aud fyftematical Methodifts.

Finding this Remedy recommended in fo extraordinary a manner, by fo eminent a Phyfician, I began now to think, that poffibly I might have been miftaken, and therefore defired Mr Winterbottom, an Apothecary in Bow-lane, immediately to prepare the Recipe, as deScribed by Mr Helvelius. When this was ready, I fent for a Bottle of


[^0]:    * Tiesis is dated July 4. 1730.

[^1]:    (a) See Hippocr. Prognoft. xxiii, 3. \& Pranot. Coxe. iii. 9*.
    (b) Acut. iii. 4. (c) Cap. 13. .(d) De Re Medic. vi.. 33. (e) Cur. Acut. i. 7. (f) Medic. i. x. 14. (g) Chirurg ii, 43 (b) Contin vii. Fol in. 77.

[^2]:    (i) Operat. Chirurg. xliv. p. 477. (k) De Voc. Org. i. 20.

    Effic. ii. 40 . (m) Com. in Hippocr. de Dizt. in acut. iv. 35 .
    Operat. Chirurg.xxxi. p. 489 . (o) Garengeot ibid. axxii. p. 498
    p. 206. (q) Pag. 207. (r) Pag. 480.
    (i) Chirurg.
    (i) See Garengcot
    (p) Hift. Phyf. I.

[^3]:    (1) See M. Azr. Severing. p. 103.

[^4]:    * Lib. vii. Met. Med. Cap. iv.

[^5]:    Q 2. Whether

[^6]:    V O L. VII. Part iii.

[^7]:    (a) Hujus fili argentei diametri 485 pollicem, five duodecimam pedis Londinenfis partens. sonficiebant; quod compertum fuerat per Metbodum in Agis Pbilojopb. expogitam. No. $355^{\circ}$ pig. 761 .

