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ESSAY

AN

ON THE

DROPSY,

ANDITS

DIFFERENT SPECIES.

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ESSAY

AN

ON THE

DROPSY,

AND ITS

DIFFERENT SPECIES.

By DONALD MONRO, M.D.

PHYSICIAN to his MAJESTY'S ARMY, and to ST. GEORGE'S Hofpital.

THE THIRD EDITION.

LONDON:

Printed for A. MILLAR, D. WILSON, and T. DURHAM, in the Strand; and T. PAYNE, at the Mews-Gate. MDCCLXV.

is in the same of a second size of



Dr. Alexander Monro, Senior,

TO

Fellow of the Royal College of Physicians,

AND

PROFESSOR of ANATOMY in the University of EDINBURGH.

SIR,

PERMIT me to acknowledge, in this public Manner, that all a Son can owe to the beft of Fathers, a Pupil to his Tutor, or a Man to his Friend, I owe to you; and give me Leave to affure you, that, A 4 as

DEDICATION.

as I am every Day fenfible of the Advantages I derive, not only from your early Care, but from your Generofity and Example, fo it fhall be my Endeavour, by every Return of Gratitude in my Power, to approve myfelf

Your dutiful

and affectionate Son,

D. MONRO.

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PREFACE.

THE following Sheets are prefented to the Public on a Prefumption that they may be ferviceable. The Author, at leaft, is not confcious of having maintained any Opinion through Prejudice, of afferting any Fact without Authority, or of having followed any other Guide than Reafon and Experience.

The first Sketch of this Essay was originally wrote in the Year 1748, and defigned for a small Circle of Friends, who weekly submitted to each others Examination their Thoughts on the different Diseases of the human

PREFACE.

man Body. As it happened to meet with their Approbation, the Author frequently revifed it, and from Time to Time added fuch Obfervations as occured to him.

In the Year 1752, when he was a Candidate for a Degree in the University of Edinburgh, he digefted his fcattered Obfervations with greater Accuracy, and made them public in a Form no otherwife differing from the prefent, than that the Language was Latin, and the Plan more confined.

The first Part of this Esfay contains the general Doctrine concerning Dropfies; in which the Seat and Nature of this Difeafe, the Symptoms observable, and the different Caufes, are confidered; the Circumstances from which the Event may probably be foretold are pointed out, and the proper Indications of Cure

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Cure are laid down, with the Method of executing each.

In the fecond Part, which treats of the different Species of the Difeafe, the fame Order is observed as in the former.

As the Knowledge of the latter Parts depends on what has preceded, the whole is divided into Sections, to which Numbers are prefixed; fo that by referring to thefe, Repetitions are avoided.

The first Edition of this Effay was published in the Year 1755, the second in the Beginning of 1756, fince which Time the Author has made many Additions and Corrections, and by a careful Attention to the numerous Cafes which have occurred to him in the Course of his Practice in large Hospitals, by observing the Effects of the different Medicines which have

PREFACE.

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have been proposed for the Cure of dropfical Diforders, and by conversing with other Phyficians of extensive Practice, has endeavoured to render this Effay more compleat and useful.

N. B. The Histories of Cases marked thus *** are Abstracts from the Notes of a Physician justly esteemed for his Knowledge in his Profession, but who desired that his Name might not be mentioned.

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ERRATA CORRIGENDA.

Page 4, line	4, for usopy Naroov, read uspoy Naroov.
24, 1	9, for sometime, read sometimes.
56,	3, for watery Liquor, read watery Liquors.
82. 1	8. for feverals, read feveral.
104, 2	3, for be was able to lie down, read he lay down.
161, 1	7, after broad shouldered Irocar, add of a particu-
251 · · ·	lar Make.
ibid. 1	9, for covered its Orifice, read stopt the End of the Tube with a Dosfil, and put a sticking Plais-
	ter over its Orifice.
188, 2	1, for Jolem, read Jolum.
ibid, 2	2, for ille patiuntur, read illi patiuntur
107. 1	7. for laxeture, read laxetur.
204, 2	o, for Almond and Emulfion, read Almond Emulfion.
208, 1	6, for relinquinda, read relinquenda.
218, 1	8, for feted, read fetid.
220, 1	5, for Enquiries, read Inquiries.

DROPSIES.

-the contin other Organs; as the

OF

1. THE Cavities of an animal Body, however empty they may appear after Death, are all of them during Life filled either with Fluids, or with folid Substances, or with both; and their Sides, which are composed either of Bones, Cartilages, Ligaments, Membranes, or Muscles, have a constant Pressure to fustain from the Bulk, Weight, or Rarefaction of their Contents.

The Cavities are of four different Kinds.
Those in which the Blood, and other Liquors of the Body circulate; fuch as the Heart, Arteries, Veins, and other Veffels. 2.
Those which receive the Liquors secreted from B the

OF DROPSIES.

the common Mais of Blood, in order to convey them out of the Body, or to deposit them. in fome larger Cavity; fuch as the Alimentary Canal, the Windpipe, the Gall and Urinary Bladders, the Uterus. 3. Those Cavities which have Liquors deposited in them by the Exhalant Arteries, and from which there is no other Egress but by the absorbent Veins; such are the cellular Membranes, the Ova in the Ovarium. 4. Those that contain other Organs; as the Head, Thorax, Abdomen, Scrotum, and Capfulæ of the Joints. All of this last Species have their internal Surface conftantly moiftened with fine thin Liquors thrown out from the Orifices of numerous Arteries, to be taken up again by the like Extremities of abforbent Veins (a). 3. The

(a) Formerly Branches of the Veins carrying red Blood, were believed to open into the Cavities, and to perform the Office of Abforbents; but we now know from certain Experiments, that the valvular lymphatic Veins are a Syftem of abforbent Veffels, and diffributed through the whole human Body; and it is even doubted whether any other Veffels but they, and the lacteals, act as Abforbents. Some Experiments have been brought to fupport this laft Opinion, while

OF DROPSIES.

3. The Fluids contained in the first, and the greater Part of the second Species of Cavities, being composed of various heterogeneous Particles endued with different Properties, give Rife to innumerable Distempers. But a few of the fecond, and all the third and fourth Kind of Cavities, abound with thin watery Liquors, which, when collected in more than the ordinary natural Quantity, cause the Distance named Dropfy (b) by the English; the Phænomena, Cause,

while those of eminent Authors should seem to prove that the Extremities of red Veins affist in this Office.

(b) Dropfy is a Corruption of the Greek word ispat, derived from isap Water.

From this Word is wp, compounded with the Name either of the difeafed Part, or of the Quality of the extravafated Liquor, or of the Name of fomething which the tumified Part was thought to refemble, were formed the Greek Names of the different forts of Dropfies: Thus,

Hydrocephalus, idponequator, or idponequator, Dropfy of the Head, from idwp, and nequation the Head.

Hydrophthalmia, ispoq Janua, Dropfy of the Eye, from iswp, and og Januos the Eye.

B 2

H

Hydrogloffum,

3

4 OF DROPSIES.

Caufes, and different Kinds of which, with the Prognofis and Method of Cure, are the Subject of this Effay.

Lydrogloffum, idopy narrow, Dropfy of the Tongue, from iswo, and ynward the Tongue.

Hydrarthron, ispapepov, Dropfy of a Joint, from iswp, and apepov a Joint.

Hydromphalum, is pougarov, Dropfy of the Navel, from isop, and ougaros the Navel.

Hydrocardia, isponapsia, Water in the Pericardium, from

Hydrocele, Spoknan, any fort of watery Tumor, but by Cuftom confined to fignify only Collections of Water in the Scrotum, from Sap, and KNAN a Tumor.

Hydrops Anafarca, is port avasdona, a Dropfy among the Flefh, from ava, between or among, and sapt Flefh.

Hydrops Leucophlegmatia, reuropreguatia, from reurop white, and erequa Phlegm.

Hydrops Afcites, adrives, Dropfy of the Belly, from estros, a Bottle, the Belly, when diffended with Water, being thought to refemble a full Bottle.

PART

PART I,

OF THE

DROPSY

IN GENERAL.

SYMPTOMS.

4. TOO great a Quantity of watery Liquors collected in a Cavity diftends its Sides, and enlarges its Size, preffes on the furrounding Parts, difturbs their Functions, and gives an uneally Senfe of Weight to the Patient.

5. These Symptoms appear sooner or later, are milder or more severe, in proportion to— B 3 1. The

1. The greater or less Force with which the Sides of the Cavity containing the Water refift the Diftention.—2. The fafter or flower Repletion of the Cavity by the extravafated Liquor.—3. The Degree of Senfibility in the Sides of the diftended Cavity.—4. The Ufefulnefs, &c. of the neighbouring Organs.

6. Limpid Water will not of itfelf change the Colour of the Parts in which it is contained; and therefore Dropfical Parts which Light can pervade, when viewed between the Eye and a bright Light, appear pellucid. But as the Water of Dropfies is not always pure (c), the want of Pellucidity must not be taken for a certain Sign that the Diseafe is not a Dropfy.

7. Water collected in a foft Part yields to the Touch, and may be felt fluctuating; but

(c) I have often feen it of a greenish, a brown, or a bloody Colour : fometimes also it refembles Milk, of which fee Histories in Bassi Obs. Med. dec. 2. obs. 7.---Hist. de l'Acad. des Sciences, 1700 & 1710.

when

when the Sides of the Cavity in which it is collected are thick, or of a rigid Texture, or are very full and greatly diffended, or when the Quantity of the contained Water is very fmall, this undulatory Motion of the Fluid is fcarce perceptible.

8. When the thinner Parts of the Water fo collected are abforbed by the Veins, the Remainder grows thick, acquires a mucous or gelatinous Confiftence, and the Difeafe then puts on a different Appearance (d).

9. The Organs macerated in this hydropic Fluid become foft, lax, and weak.—If the Water turns acrid it corrodes the neighbouring Parts, and fome of its acrid Particles being abforbed and mixed with the Blood bring on

(d) Histories of Hydatides, gelatinous, steatomatous, and other Tumours found in the Ovarium. Nuch. Adenograph. cap. 8. and Philosoph. Trans. No. 466. feel. 4.—Thick gelatinous Matter among the Muscles, with a large hydropic Sac adhering to the Womb. Ephem. German, 1742, obs. 94.---Jelly in the Abdomen. Barbette Prax. p. 169.

B 4

Fevers,

Fevers, Convultions, and other Symptoms of acrid circulating Fluids: hence we fee how Dropfies may produce many other Diforders (e).

10. Hydropical Waters, by their Preffure on the Veffels near them, must obstruct more or less the Course of the Blood, particularly in the Veins; and therefore, when this Preffure affects any confiderable Veffels, the Heart and Lungs are in danger of being gorged with too much Blood; especially when the Motion of the

(e) The Surface of the Heart and Pericardium is often eroded by Water contained in this laft named Cavity, of which fee Examples in Act. Hafnienf. vol. 1. obf. 89. Fran, Sylvii. Prax. Med. lib. 1. cap. 26. fee. 26.—The Diaphragm has been perforated by the Erofion of Water contained in a Cyft in the Thorax. Act. Hafnienf. vol. 2. obf. 16.--- The Water of an Afcites became fo acrid and corrupted, that when it was let out after Death, it produced Symptoms equal to those proceeding from a Peftilential Vapour, the Perfon who let it out fell into a Putrid Fever, and angry Puflules arose from every Part of his Hands or Fingers on which the least Drop of the Water had fallen. Philosoph. Tranf. No. 454. fect. 4.---In almost all afcitical Bodies we find more or less of the Intestines inflamed or corroded by the Water.

Fluids

Fluids is accelerated by Exercife, Fever, ftimulating Food, or the like Caufes. Hence the Dyfpnea and frequent Cough of many hydropic People (f), and the more than ordinary Size of the Heart observed in the Diffection of fuch (g).

CAUSES,

11. Many and various are the Caufes of Dropfies, the principal of which are the following.

12. A Weakness and Laxity of the Fibres: for when the Vessels do not act with sufficient Force, the Fluids become of a watery Consistence, and the Orifices of the exhaling Arteries being too weak, allow a greater Quan-

(f) I cannot affert, as many Writers have done, that Dropfies are always attended with Dyfpnea and Cough; for daily Experience shews us that several Species and Degrees of Dropfy occasion neither of these Symptoms.

(g) Many Observations of the large Size of the Hearts of those who died of Dropsies may be read in Bonet. Sepulchret. Anat. lib. 2 & 3.

tity

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tity of Liquors than ordinary to pass through them, while the absorbent Veins being weakened in at least an equal Proportion, do not take up so much as they were wont to do.

This Weaknefs may be brought on by many different Caufes: for Example, by any great Evacuation, especially by Bleeding (h); by a moist Climate (i); by an unactive sedentary

(b) A fubcutaneous Dropfy occafioned by the menftrual Difcharge continuing too long. Foreft. lib. 19. obf. 35.— By Vomiting of Blood. Ibid. obf. 42.—Two Hiftories of the like Difeafe from frequent and long Bleeding at the Nofe. Schenk. Obf. lib. 3. de Hydrope, obf. 9.— A Dropfy from piffing of Blood. Ibid. obf. 12.—Two Dropfies occafioned by too frequent letting of Blood. Mifcellan. Curief. Acad. Nat. Curief. dec. 2. ann. 2. obf. 169.—By Lofs of Blood on opening Veffels under the Tongue. Ibid. anno 10. obf. 34.—One from a Flooding after an Abortion in the third Month. Hoffman. Oper. tom. 3. cap. 14. de Hydrope, obf. 3. —An Afcites after vomiting eighteen Pounds of Blood. River. Obf. Commun. 15. p. 556.—The fame from a fpitting of Blood. Lifter, Exercit. Med. de Hydrope, ægrot. 2.

(i) People in Holland, and other fenny Countries, are more fubject to Dropfies than those who live in a more pure dry Air.

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Life

Life (k); by too thin watery Diet (l); by Difeafes that cause a Diminution of the Strength, either

(k) A Hydrops Pectoris from a fedentary fludious Life. Bonet. Sepulch. Anat. lib. ii. fect. 1. obf. 76.—Ramazzini de Morb. Artific. fhews, by a Variety of Examples, how frequent Dropfies are among those People whose Employment requires a fedentary Life, and exposes them to Moisture.

(1) A young Woman, a Nurfe, having, in order to increase her Milk, drunk immoderately, Night and Day, of Beer, fometimes by itfelf, fometimes mixed with Milk, contracted a monstrous Ascites. Willis, Pharm. Ration. part 2. cap. 3. feet. 2 .- See fuch another Cafe in Mifcel. Curiof. a. n. c. dec. 2. ann. 9. obf. 133-An Afcites from frequent Hæmorrhages, and the too liberal Ufe of finall Liquors. Philof. Tranf. No. 471. fett. 15 .- The following Cafe I had from Dr. Fothergill: A Perfon who had been ordered to drink Barley-Water plentifully, to remove a Fever, drank about fix Quarts of this Liquor daily, during a Month, and acquired an obftinate and almost incurable. Anafarca .- Schulzius tells us a very pretty Experiment relating to this Subject : he bled a very ftrong Dog till he almost fainted, and then forcing him to fwallow a large Quantity of Water, he foon became Hydropic. De Elastic. Effect. in Haller. Difput. Anat. vol. iii. p. 670. Dr. Hales opened the jugular Vein of a living Dog, and fixed in it the one End of a long Tube directed towards the Heart; and then poured into a Funnel, fixed at the other End of the

either of the whole Body (m), or of fome particular Part (n).

Whatever

the Tube, blood warm Water, which entered the Vein with a Force equal to that of the Heart, by the Tube's being raifed to a proper Height; and very foon after he obferved that as the Water was poured into the Tube, the Blood which run out of the cut Vein, above where the Pipe was fixed, became gradually more and more diluted; and that in half an Hour the Creature was quite dropfical, having both the Cellular Membranes and Cavity of the Abdomen filled with a watery Liquor. See Hæmaslat. Exp. 14.

(m) We had a great many Cafes in the Military Hofpitals in Germany, during the late War, of Dyfenteries, Fevers, and Agues, which were fucceeded with dropfical Swellings either of the lower Extremities or of the whole Body.—Such daily occur at St. George's and the other Hofpitals about London—and numerous Examples of this Kind are related by Hoffman, Forrestus, and other practical Authors.

(n) A Hydrocele from a Bruife on the Saddle. Turner's Surgery, vol. i. p. 229.—A Dropfy of the Belly from a Blow on the Right Side. Mead. Mon. Med. cap. 8.—Of the Foot from a Luxation of the Ancle. River: Cent. 3. obf. 75.—We had in the Year 1755, in St. George's Hofpital, a Patient, Robert Damyerin, who was received into the Houfe for an Anafarca, which he attributed to a Sprain of his

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Whatever is the original Caufe of a Dropfy, it may be concluded, from Sec. 9 and 10, that more or lefs of the Patient's Body will be weakened by fuch a Collection of extravafated Fluids, and that in Proportion to the Extent, Continuance, and Effects of the Difeafe; and therefore the Dropfy itfelf is acceffary to the Increafe, or even to the bringing on of this Caufe which we have been now confidering.

13. When the proper Organs for the Excretion of watery Liquors do not allow them to pafs off, the fuperfluous watery Serum that remains in the Body is often thrown into fome of the Cavities, and occasions dropfical Swellings in those Parts (0): And the Retention of those

his Wrift in lifting a Burthen; immediately he faid his Wrift began to fwell, and the Swelling fpread from thence all over his Body.

(o) A fubcutaneous Dropfy from a Suppression of the Menses. Forest. lib. 19. obs. 34.—Ascites from a Stoppage of the Hæmorrhoids. Ibid. obs. 39.—From an habitual plentiful Sweating in the Hams ceasing. Ast. Physic. Med. a. n. c. vol. v. obs. 2.—From both Kidneys being stuffed
those Liquors in the Blood longer than the ordinary Time, increasing too much their Tendency to the putrescent, contributes, as well as the Absorption of the effused Liquors, to the Thirst which many hydropic People complain of.

Women being more fubject to a Stoppage of the natural Excretions, and of a weaker Frame, are alledged to be more frequently attacked by Dropfies, than Men.

14. Whatever obstructs the Circulation of the Blood in the larger Veffels, may produce a Dropfy: For if the Blood be stopped in the large Vessels, the smaller ones are over-filled, and the thin or watery Part of the Blood is forced off into Cavities through the lateral arte-

fuffed with Mucus. Bonet. Sepulch. Anat. lib 3. Sett 21. obf. 8.—From the Left Kidney confumed by an Ulcer, and the Right one totally obftructed by a Stone. Bartholin. Epist. Cent. 4. epist. 17.—From a Dyfuria. Lister. Exercit. Med. de Hydrope, Ægrot. 15.—From a sudden Stoppage of Urine. Miscel. Curiof. a. n. c. dec. 3. ann. 5. & 6. obf. 185.

rious

rious Branches; while the abforbent Veins being alfo full, and gorged with Liquors, the bibulous Mouths of their Capillaries take up little or nothing. It is in this Way that the Legs of People in the Afcites, and of Women with Child, become ædematous; and that numerous Dropfies are produced by Polypi (p) in the Heart or large Veffels, by Schirri (q), Impofthumes

(p) A Dropfy of the Breaft and Abdomen, from a Polypus in each Ventricle of the Heart. Ephem. German. dec. 2. ann. 6. obf. 232.—See many Hiftories of Afcites from the fame Caufe. Bonet. Sepulch. lib. 3. fec. 21. obf. 3.

(q) In Bonetus's Sepulch. Anat. lib. 3. and moft other medical Obfervators, there are numerous Hiftories of Dropfies from Schirri of the Vifcera. I have feen many Examples myfelf of Dropfies from a fchirrous Stomach, Liver, Spleen, Pancreas, and Ovaria. Two uncommon Cafes which I faw in the Year 1752 I fhall here relate : One — 'Mac Donald, a Soldier, being feized with a quartan Ague in Flanders, after fome Time obferved a Tumour in his left Side below the Ribs, and foon after all his Belly fwelled. He returned to Scotland, and was taken into the Infirmary at Edinburgh, where he died. His Body being opened, a confiderable Quantity of Water was found

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humes (r), Tumours, and other Caufes of Obstruction or Compression (s).

13. Such

found in his Belly, and a fchirrous Spleen befet with two little Bags, which contained about fix or feven Ounces of Water; the whole weighed one hundred and twenty-fix Ounces.

The other, a Woman who died of an Afcites, whofe Stomach was quite fchirrous, being in fome Places near an Inch thick : Its Plicæ were all hard, fchirrous, very prominent, and feemed convoluted in an extraordinary Manner. The Pancreas too was firm and hard.

Although the many Observations fince Diffections of human Bodies have been frequent, shew that the Ancients erred in attributing Dropfies entirely to the Liver, or to it and the Spleen; yet none of the other Bowels fo frequently give Rife to, or are fo often hurt by this Difeafe; which every one muft be convinced of, who has examied many hydropical Bodies, or who will look into Bonetus, Schenkius, and the other Collectors of practical Obfervations. Moreover, the Situation, Texture, and Ufes of these Viscera, prove that it must be fo. The Liver is fo fituated, that the Vena Cava must be compressed whenever it fwells and becomes hard; and the Blood which paffes through it has been deprived of its finer Parts, and in their Stead received Particles from our Food and Drink, which have undergone no Preparation by the Circulation, and therefore Obstructions must frequently happen here. The

15. Such Caufes as contract the fmall Veffels, or vitiate the Fluids, fo as to prevent the Blood

-The Spleen difcharges its Blood into the Liver, and confequently often fuffers with it. The Texture of both is fo tender, that they are eafily hurt by foaking in acrid Water, or by any other external Caufe.

(r) A Dropfy of the Breaft, from an Imposthume of the Lungs: Schenk. Obf. lib. 2. de Pect. Hydrope, obf. 6. I have often found more or less Water in the Thorax of People who died of the Phthis Pulmonalis.

(s) The Baron Van Swieten gives an Account of a Dropfy of the Belly, which was occasioned by the Omentum being diffended into a steatomatous Tumour, which weighed thirty-three Pounds. See Comment. fect. 1239, wol. iv. p. 235.

An unmarried Woman, after being fome time in a bad State of Health, perceived a Swelling in the lower Part of her Belly towards the Right Side. Some time after fhe became dropfical, and the Diforder increafed daily for fome Years, till fhe died. She had taken Variety of Medicines without receiving any Benefit. After her Death the Body was opened, and I was prefent at the Diffection. The Abdomen was full of Water, and there were two large fteatomatous Tumours towards the Right Side, which lay above the Uterus. The one was about the Size of the Head of a new-born Child, and arofe from the Fundus C

Blood from paffing freely from the Arteries into the Veins, may have the fame Effects; hence

Uteri by a Root not larger than one's little Finger. The other was at leaft three Times that Size, and arofe by a Root two Inches thick, from the Uterus at the Place where the right fallopian Tube joins it. The Subftance of the right Tube was greatly enlarged, and filled with a fleatomatous Matter, and was befet with five or fix Hydatides.

. * * An Officer on Board a Transport Ship received a violent Blow on his Breaft, which was at first neglected, there being no Surgeon on Board to bleed him, or give him any proper Directions. When he came to England, he had a violent Difficulty of Breathing, attended with hectic Symptoms, for which he confulted a Phyfician of Eminence in Town, but died foon after. His Body was opened. There was a Pint of extravafated Serum in the Abdomen; four Quarts of a yellowith Serum in the Cavity of the Left Side of the Thorax ; and the Lungs of that Side were fo comprefied as to have the Appearance of a Piece of Flefh, without any Remains of a Veficular Texture, and were lefs than the Size of one's Fift .- In the Right Side of the Thorax there were three Pints of the fame fort of Serum, and the Lungs greatly contracted .--The Pericardium was thickened on the Left Side, and contained rather more Water than common ; and there was a large firm Polypous Concretion in each Ventricle of the

hence this Difeafe is frequently occafioned by Food too vifcid and tenacious to be rightly concocted

the Heart, with long Appendices to each, which extended themfelves into the large Blood Veffels.

In the Year 1750 I diffected the Body of a Man who died of an Universal Dropsy, in the Presence of Dr. John Rutherford Profeffor of Medicine in the University of Edinburgh : we could discover no other Cause of the Disease than the Offification of the Valvulæ Mitrales in the Left Ventricle of the Heart, by which the Orifice of that Ventricle was fo straitened, that I could fcarce force my little Finger into it. The Heart itfelf was very large. While the Man was alive, all the foft Parts of the Neck were raifed by every Syftole of the Heart, in fuch a Manner that the Veins there feemed to have a Pulfation .- An Inftance of the fame Kind may be feen in Peyer. Method. Hift. Anat. Med. cap. 6. quoted by Kemper de Valvul. Natura in Haller. Difput. Anat. vol. ii. p. 107 .- A Dropfy of the Breaft with Afthma, difficult Breathing, fainting Fits, a gradual Failure of the Pulse, and at last a total Cessation of it for a Day or two before Death, from the femilunar Valves of the Heart being offified, and ftopping entirely the Paffage of the Blood. Ruyfch. obf. 69-In the very large flaccid Heart of one who died of a Dropfy of the Belly, Thorax, and Pericardium, the Valves of the two great Arteries were offified, and there was a large Polypus in the Left Ventricle of the Heart. Mifcel. Cur. a. n. c. dec. 3. an. 9 & 10. obf. 89 .- An Hydropic Tumour, about C 2 the

concocted and affimilated to the other Juices(t); by cold moift Air (u); by violent long-continued Exercife (w); by the too liberal Ufe of fpirituous Liquors (x), which ftimulate and harden

the Size of a Hen's Egg, a little below the Navel, occafioned by three Stones in the Cellular Membrane under the Skin; the largeft weighed a Drachm, the fecond two Scruples, and the leaft about half a Drachm. Primit. Phylic. Med. Poloniæ, vol. ii. obf. 9.—Lower tried a very pretty Experiment to afcertain this Caufe of the Dropfy: he made a Ligature on the inferior Vena Cava of a Dog, and in a few Hours the Animal expired : a great Quantity of Water was collected in the Belly, as if the Creature had long laboured under an Afcites. He found too, that tying the Jugular Veins made the Head cedematous. De Corde, cap. 2. p. 128.

(t) A Dropfy of the Breaft and Belly, from bad Diet, and a fedentary Life. Hoffman, tom. 3. de Hydrope, obf. 6.

(u) An analarcous Swelling of the Head from Cold. Binninger, obs. cent. 1. obs. 94.

(w) A Dropfy of the Breast, from too violent Exercise. Willis Pharm. Ration. p. 2. fect. 1. cap. 13.

(x) A Dropfy of the Breast, from Cold and drinking Spirits. Hoffman, tom. 3. de Hydrope, obf. 7.—A Dropfy with two Relapses, from drinking Spirits. Lister. Exercit.

harden the Veffels, while they coagulate and render the Liquors too grofs; by old Age, in which the whole Body becomes rigid, the fmall Veffels contracted, and the Fluids vifcid (y); and, laftly, by morbid Particles retained in the Blood, caufing Obftructions in different Parts of the Body (z).

16. After the Discovery of the Lymphatics, about a Century ago, many Writers on the Dropfy attributed this Disease to the Rupture of these Vessels; but although it be true, that in Dropfies of the Ovaria, and between the Cellular Membranes and the Peritoneum, and in other

Exercit. Med. de Hydrope, ægrot. 16.—A fubcutaneous Dropfy, from the fame Caufe. Ibid. ægrot. 1.—The moft judicious Sydenham, in his Chapter de Hydrope, juftly declares Drunkards more fubject to the Dropfy than other Men; "Bibaciffimos quofque helluones fæpius hoc morbo, " quàm cæteros mortales, conflictari."

(y) It is a general Remark, that old People are more fubject to Dropfies than young.

(z) We daily meet with Dropfies which come after Agues and other Difeafes, and Hiftories of fuch Cafes are to be feen in most modern Writers of Observations.

C 3

Parts

Parts of the Body we often find Quantities of vifcid Liquors, refembling the coagulable Lymph, mixed with the hydropic Waters, which would make us fufpect fome Lymphatic Vein to have been burft; and that we have Hiftories of the thoracic Duct's being ruptured and caufing a Hydrops Lactea of the Breaft (a); and of the Abdomen being filled with a milky Liquor, which must have come from burft lacteal Veffels (b), which refemble the Lymphatics

(a) In the Body of a Man who died after a large Quantity of chylous Liquor had been let out of his Thorax, an Orifice was difcovered about the third or fourth Vertebra, from which the chylous Matter flowed as from a Fountain. When the lower Part of the thoracic Duct, where it rifes out of the Receptacle of the Chyle, was blowed into, the Air unexpectedly came out at the Orifice above-mentioned. This white Liquor coagulated with Salt of Tattar, but not with Spirit of Vitriol. *Baffii Obferv. dec.* 2. *obf.* 7.

• (b) A Girl having made too great an Effort to raife a Burthen, became hydropic foon after. Being frequently tapped, there always iffued from the Puncture chylous Matter, in Colour, Tafte, and Confiftence, not unlike Milk with a little Salt in it, which being fet on the Fire, rarefied

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phatics greatly; yet we have no Reafon, either from Obfervation or Experiment, to believe that this is fuch a frequent Caufe of Dropfies

rarefied like Milk, and rofe up in the Veffel. It coagulated with Salt of Tartar, but not with Acids, as in the preceding Inftance. *Memoir. de l'Acad. des Sciences*, 1700. See fuch another Cafe, *ibid.* 1710.

In Dr. R. Morton's Phtifiologia there is an Account of a Hydrops Afcites Lactea in a Boy two Years of Age, which, after his Death, was found to have been occasioned by a Number of large indurated Tumours, fituated behind the Trachea Arteria, which compressed the thoracic Duct near to the subclavian Vein, as much as if a Ligature had been made upon it; and had certainly been the Cause of a Rupture of some of the lacteal Veins in the Abdomen. Lib. i. cap. 10.

That I might judge whether this hydropic Liquor was Chyle, I made a Ligature on the thoracic Duct of a Dog that had eat heartily an Hour before. The Receptacle of the Chyle became immediately very turgid with this Liquor, which tafted like Whey with fome Salt in it, but coagulated as foon as it was exposed to the Air, into a Confiftence like Starch as it is prepared for putting on Cloaths, fo that we had not time to mix different Liquors with it before it coagulated. To avoid this Inconvenience, we got another Dog, and tied his thoracic Duct in C 4 the

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as

as is commonly alledged; for none of the Obfervators mention their having ever feen the Orifice of broken lymphatic Veffels which furnifhed the hydropic Water; and we are fure Dropfies can be without any Rupture of thefe Veffels; for Lower de Corde, cap. 2. p. 1°9. tells of his having diffected many Sheep that died of Collections of Water in the Thorax and Abdomen, whofe lymphatic Veins were

the fame Manner, then feparating Part of the Duct from the Vertebræ, put the End of it fucceffively into different Liquors made near as warm as the animal Heat, and into each of these we fuffered a small Portion of the Chyle to flow. In Water it coagulated almost as in open Air; in Oil of Tartar it became turbid and flimy ; in Spirit of Hartfhorn it afforded only a glutinous Cloud ; in Spirit of Vitriol, a white but tender Curd; and it coagulated in Alcohol and Oil of Turpentine. These Experiments I repeated feveral Times, and in doing them, fometime either the Receptacle itself, or fome of the larger Lacteals in the Abdomen, burft; and upon examining we found, below the Root of the Myfentery, a great deal of extravafated Chyle, which was firmly coagulated, and when we took it out of the Body, had the Appearance of a Piece of foft Fat, but upon handling much, melted down into a watery Liquor.

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fo full and turgid, that he could eafily trace their Courfe; which could not have been the Cafe had any of them been burft.

17. The Orifices or Ducts leading from Cavities that are continually moiftened with fine watery Liquors, being obstructed, a Dropfy is produced in the Cavity; hence the Dropfy of the Uterus, &c. But it seems improper to apply the Name of Dropfy to those Disorders which are occasioned by a preternatural Retention of Humours different from an aqueous Serum, such as the Urine (c), and Bile (d), in

(c) The Belly diffended with Urine, from a burfted Bladder. Plater. Prax. lib. iii. cap. 3. cited by Bonet. Sepulch. Anat. lib. iii. fec. 21. obf. 20.—The Pelvis of the Kidney diffended fo as to contain 2 lb. of Urine. Haller. Opuscul. Patholog. obf. 60.

(d) Petit gives feveral Inftances where the Gall-Bladder was fo much diftended with Bile, as to be miftaken for an incyfted Dropfy and Abcefs of the Belly, and for fuch was opened, which either deftroyed the Patient, or left a fiftulous Sore that could not be cured; and he acknowledges, that he

in their own proper Receptacles, or when they are difcharged from them into other Cavities.

18. Hydropical Collections may not only occasion other Dropsies by their Preffure (e), in the Manner mentioned in Sec. 14; but if a Cyst containing morbid Water happens ei-

he once was in Danger of committing fuch a Miftake; for he had cut through the external Teguments, when the Tumour beginning to fubfide, made him immediately fufpect it to be the Gall-Bladder, and to defift from the Operation; foon after the Patient paffed by Stool fome Pints of Bile, and was cured. He fays that fuch bilious Tumours may be diffinguifhed by their Situation, and an uneafy painful Tention about the hepatic Region, followed by a Jaundice with all its Symptoms; without the Pulfation, acute Pain, or Shivering which accompany Suppurations of the Liver. Memaires de l'Acad. de Chirurgie, vol. i. p. 155.

(e) The Anafarca in the lower Extremities, and Hydrocele in the Scrotum, are often brought on by an Afcites, and difappear whenever the Water of the Belly is drained off. The humoral Afthma and Collections of Water in the Thorax often caufe a general fubcutaneous Dropfy.

ther

ther to burft (f) or be eroded (g), it may fill a Cavity where it was not originally collected, and caufe a Dropfy there.

PROGNOSIS.

19. The Prognostic to be made in this Disease is taken, as in all other Cases, from the Part it affects, its Cause, Continuance, and Symptoms; together with the Age, Strength, and Constitution of the Patient:

(f) A Sac in the Belly burfting by a Fall caufed an Afcites. Act. Hafnienf. vol. v. obf. 12.—A like Cafe is related by De Haen, in his Rat. Medendi, part 5, cap. 2. fec. 1. An Afcites formed by the burfting of an incyfted Dropfy of the Abdomen. Medical Effays, vol. v. art. 64.—A Hydrops Pectoris caufed by the Rupture of a Cyft full of Water there. Hoffman de Hydrope, obf. 7.—A fcrotal Anafcarca from the burfting of the vaginal Coat of the Tefticle. Douglafs on the Hydrocele, chap. 1. fect. 7. p. 89.

(g) The watery Matter of a large Sac in the Thorax imade its Way by Erofion through the Diaphragm into the Abdomen, where were found about nine Pounds of Liquor; the Sac in the Thorax contained three. Act. Medic. Berolin. dec. 1. vol. vi. fec. 8.

all

all which cannot be particularly treated of at prefent (b).

INDICATIONS OF CURE.

20. From the Account now given of Dropfies, the three following Indications of Cure are plainly pointed out to us.

(b) These Circumstances are so numerous, and there is fuch a Variety of Degrees and of Combinations in each, that it would be intolerably tedious to recount all that might be fupposed, even in the particular Species of Dropfies; at the fame Time the Labour feems very unneceffary, for furely no one needs to be told, that, cæteris paribus, a Dropfy in the Ventricles of the Brain or Pericardium, is more dangerous than an Anafarca in the lower Extremities ; that a Polypus in the Heart or Schirrus of the Liver are worfe to remove than an humoral Afthma : that a Difease of old flanding is worle to cure than a recent one; that a young Perfon recovers out of feveral Difeafes that would kill an old Man; that a ftrong Perfon, who has before enjoyed a good State of Health, has a better Chance for Life than one whofe Conflicution is wore out by long tedious Difeases or Debaucheries. These, and fuch like Circumstances, however, are the Particulars on which a Prognofis is to be formed.

Us.

I. To

1. To remove the Caufe of the Difeafe.

2. To evacuate the extravalated Water.

3. To prevent a Relapfe.

All that relates to the Cure is comprehended in the two first Indications, both of which must be purfued at the fame Time : but that the Directions for performing this may be better understood, it is necessary to confider each of them feparately.

INDICATION FIRST.

21. The first Indication of Cure leads to the Confideration of the Means proper for removing the different Causes of Dropsies mentioned from Sect. 11 to 18.

22. If the Dropfy derives its Origin from Weaknefs and Relaxation of the Solids, and too thin watery Fluids, we must endeavour to strengthen the Solids, and to restore the natural Confistence of the Fluids.

23. This

23. This is to be done by,

«. A nourifhing eafy digefted Food, and ftrict Temperance in refpect to Liquids (i). "The Food," fays Cellus (k), "ought to be "of a middle Confiftence, but rather of the "dry Kind. No more Drink ought to be "given than is abfolutely neceffary for the

(i) A Woman of thirty Years of Age was cured of an Anafarca by abstaining almost entirely from Drink for a Year: And a Countryman, a Neighbour of her's, was cured in the fame Manner, in four Months. River. Obf. Commun. a Jacoz. obf. 21.—There are other fuch Cafes in Schenk. obf. lib. iii. obf. 3.—Mifcellan. a. n. c. cent. 6. obf. 33.— Act. Phyf. Med. a. n. c. vol. i. obf. 33.—See two Instances of People cured of the Afcites by the fame Means in Mead. Monit. Med. cap. 8.—And one in Panarol. Roman. Pentecoft. 4. obf. 33.—Mrs. Wilkinfon, after having been tapped for an Afcites, was cured by a rigorous Abstinence from Liquids, taking no Medicines but Lower's bitter Infusion, and fometimes a Spoonful or two of a cordial Julep. Dr. Banyer in Philof. Tranf. No. 471. fec. 15.

(k) "Cibus esse debet ex media quidem materia, sed "tamen generis durioris. Potio non ultra danda quam ut "vitam suffineat, optimaque est quæ urinam movet." Celsus, lib. iii. cap. 21.

" Support

"Support of Life, and that is beft which pro-"motes Urine." Bread well leavened, toafted, or feafoned with Aromatics, Eggs, the firmer Kinds of Flesh, should make the principal Part of it; for Drink, the Patient ought to use good old Wine, or Beer in which Bitters have been infused.

B. Friction and Exercife.

Rubbing the Skin with a Flefh-Brufh or coarfe Cloth, not only takes away the vifcid Matter that obftructs the Ends of the cutaneous Veffels, but drives forward the Liquors in those Veffels, and thereby increases the Perspiration, and at the same time promotes the Circulation through the whole Body (1).

Travelling

(1) Friction with Oil was formerly a common Remedy, but had been laid afide till the late Dr. Oliver of Bath tried it with fome Patients, in the Years 1752, 3, & 4; and the Doctor has affured me, that he has feen three Perfons, who were judged to have laboured under a true Afcites, cured by anointing the whole Abdomen with Olive Oil, Morning

Travelling in a Coach, or on Horfeback; walking, running, and all fuch Exercifes, increafe the Motion of the Blood, fhake the pendulous Bowels, promote Digeftion and the different Secretions, and are found by Experience to be powerful Strengtheners (m): Some Cau-

tion

Morning and Evening, for three Weeks or a Month, as the Patient's Cafe required; they began to make Water plentifully on the third and fourth Day, and continued to do fo till the Abdomen was quite emptied. One of them had had feveral Pints of Water taken from her by tapping, but filled again before the Ufe of the Unction.—See in Foreflus an Account of a Woman being cured of an Afcites by rubbing her Belly with the Oleum Ranarum, *lib.* xix. *fchol. ad obf.* 35.—Though I have feen feverals who received great Relief from rubbing the Abdomen ftrongly with Oil Morning and Evening, yet I have never hitherto feen a confirmed Dropfy cured by this Method; however other Practitioners have told me, that they have known Cures made by fuch Frictions.

(m) A Dropfy of the Belly, cured by hard Labour, without any Medicines. Marcell. Donat. Hift. Mirab. lib. i. cap. 21. quoted by Schenkius, lib. iii. Obf. de Hydrope Insperat. Event. Liberat.—John Blanch, a Merchant at Paris, having made a Journey to England in Winter, felt the dropfical

tion however is to be observed in their Use; for if they are more violent than the Strength of the Patient allows, they weaken the whole Frame: When they fatigue the Body, and depress the Spirits, they are injurious.

 γ . Gentle Compression. For Pressure supports and fustains the weak relaxed Vessels, prevents the Distraction of the Fibres, and sometimes is of great Service in the Cure of a Dropsy (n).

». Medicines which ftimulate the fenfible Organs, and increase the Action of the Veffels, whether their Action depends on, 1. Their

dropfical Swelling of his Belly fubfide in a wonderful Manner, the Difease vanished, nor did he ever suffer a Relapse. Holler, lib. i. de Morb. Intern. Schol. Ad. cap. 39. p. 279.

(n) A Dropfy of the Head cured by Bandage alone. River. Obf. Commun. a Formio, obf. 6.—Fabritius ab Aquapendente fays, he has cured fubcutaneous Dropfies of the Head, by applying Sponges wet with Lime-Water, and above that a tight Bandage. Operat. Chirurg. de Hydrocephal. p. 179.

D

fubtil

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fubtil acrid Oil, of which Kind are the warmer Spices, as Pepper, Ginger, Nutmeg, Winter's Bark, the common aromatic Plants and Seeds, Mint, Lavender, Hyffop, the Seeds of Anife, Carway, Coriander, and the like .---2. Or their pungent, bitter, and aftringent Quality, fuch are Flowers of Camomile, the Tops of the leffer Centaury, of Wormwood, of Carduus, the Cortex, Gentian .--- 3. Or the ftrong fmelling Gums and Rofins, Afafætida, Benzoin, Myrrh .-- 4. Or fharp Salts, whether the volatile ones of Hartshorn, of Sal Ammoniac (0); or the fixed Alcalies, Salt of Wormwood, of Broom, of Tartar .-- 5. Or a Mixture of acrid Salt and Oil, as in Muftard Seed, the Leaves of Creffes or Scurvy-Grafs, the Roots of Pellitory, of Horfe-Radifh, of Onions, of Garlick, and in the other vegetable Substances commonly called alcalefcent.

(o) Blancard relates the Hiftory of a Baron's Daughter who was cured of an Afcites by the volatile Salts and the Cortex Sambuci. Prax. Med. par. iii. cap. 22.

All

All these Things, administered in proper Doses, and in a proper Manner, restore and increase the oscillatory Power of the Fibres (p). 6. Iron

(p) A Woman, thirty Years of Age, labouring under a fubcutaneous Dropfy as well as an Afcites, was reftored to Health by the Use of an Infusion of Tops of Wormwood and Juniper-Berries, which increased the Quantity of her Urine. Heister in Haller. Disput. Anat. vol. vi. p. 712 .--Two hydropic People cured by the Juice of Wormwood. Mifcel. Curiof. a. n. c. dec. I. ann. 3. obf. 322 .- A Leucophlegmatia after Abortion, cured by the Ufe of bitter Stomachics, and a few Doles of Purgatives. Hoffman, vol. iii. cap. 14. de Hydrope, obf. 3 .- A Soldier was cured by a Decoction of Tanfey. Mifcel. Curiof. dec. 2. ann. 2. obf. 112 .- In July 1743, Mr. Pinkflan, Surgeon, in St. Alban's-fireet, was called to a Gentleman of feventy-two Years of Age, who had formerly been Captain of a Man of War, and had lived freely in the former Part of his Life. In December 1742, he was feized with an universal Anafarca, which continued increasing till the Time Mr. Pinkflan was called in, when he found him fwelled to a monftrous Size. He fcarified immediately one of his Legs, and ordered him to take a Purgative next Morning. A good deal of Water was discharged by the Puncture; but next Day the Leg was much inflamed round the Wound, which was foon relieved by warm Fomentations and Dreffings of Linimentum Arczi and Oil of Turpentine. The Phyfic D 2 purged

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e. Iron and its Preparations are mild Aftringents, ftimulate gently the Fibres of living Animals

purged him four Times; after which he was ordered to take the following Draught twice a-Day: R. Aq. cinam. fimp. fescunc. oxymel. scillit. drachm. i. fs. spirit. lavendul. com. drach. I. fal. tartar. drach. i. fs. fyrup e cort. aurant. drach. 2. m. which made him pass great Quantities of Water by Urine, and carried off all his Swellings in ten or twelve Days; and the Cure was completed by fome ftrengthening Bitters. His common Drink was Rhenifh Wine and Spaw Water. He continued well for two Years, and was then taken ill of an Afcites, of which he died .- See in Mead's Mon. Med. cap. viii. the good Effects of the Lixivium of Tartar and Opium, in curing a Patient with whom other Remedies had failed .- Several cured by Garlick. Forest. lib. xix. obf. 27 .- In Summer 1760, a young Man, an Out-Patient at St. George's Hofpital, who was ill of an univerfal Anafarca, after taking Variety of Medicines which I had prefcribed for him, Purges, Squills, lixivial Salts, Antimonials, &c. without receiving Benefit, told me that a Friend had advised him to drink an Infusion of the Pellitory by the Wall (H. Parietariæ). I defired him by all means to try it, and as he was coffive, to take occafionally a Dofe of Jalap and Nitre. After drinking this Infufion for fome Days, he began to make Water freely; and when he came to the Hofpital the Week following, his Swellings were fenfibly decreafed. By continuing

Animals (q), and are generally allowed to be powerful Corroborants, and ferviceable in the Dropfy.

¿ Medicines endowed with a ftrong aftringent Virtue only, fuch as Alum, Oak, and Pomegranate Bark, increase, it is true, the Firmness and Rigidity of the Fibres, even of

nuing this Courfe for three Weeks longer, his dropfical Complaints were all removed, and the Cure was completed by his taking for a Week or ten Days an Infufion of the Bark, and other Bitters, to reftore his Strength.—The Particulars of this Cafe I had taken Notes of, but they were loft while I was abroad with the Army.

Mr. Gataker, Surgeon-Extraordinary to bis Majefty, told me that he had known a Perfon who was very ill of the Dropfy cured by the following Medicine, which proved ftrongly diuretic : Take of Dwarf Elder, Afparagus Roots, Parfley Roots, Horfe-Radift thin fliced, Pellitory of the Wall, of each one Handful. Put them in a Pan, pour boiling Water on them; let them ftand for fome Time, and ftrain off the Liquor through a Cloth. Drink a Wine Pint every Morning; faft an Hour.

(q) For Experiments in proof of these Qualities of Iron, fee Dr. Wright's Differtat. de Ferro. sect. iii. § 2, 3, 4.

D 3

dead

dead Animals, and may be of Service in fubcutaneous Dropfies, externally applied; but when given internally, they do not feem to enter far enough into the fmaller Series of Veffels, or to produce fuch good Effects in dropfical Cafes as the gentle Aftringents, formerly mentioned (\mathcal{A}) .

7. The cold Bath, fo ferviceable in many other Difeafes proceeding from Laxity of the Fibres, is very often prejudicial to dropfical Patients. Wherever the Fibres and fmall Veffels are already fo much relaxed, that the Plunge into cold Water does not prove a fufficient Stimulus to increase their Action, and to promote the Circulation and Heat of the Blood, the cold Bath does Hurt; for in fuch Cafes the cold Water externally applied helps to chill and cool the Blood, and to render the Circulation more languid, inftead of making it brifker to increase the Absorption and Excretion of watery Fluids; and what Water is taken up by the abforbent Veins ferves to increase the dropfical

dropfical Swellings. Celfus (r) therefore juftly observes, "that Bathing, and all Moisture, is "hurtful."

24. If a Dropfy proceeds from the Blood's not being fufficiently freed from its fuperfluous watery Parts by the ufual excretory Organs, those Paffages must be opened. But of this hereafter, when we come to treat of the fecond Indication, and to defcribe the different Methods by which this is to be done. At prefent it will be fufficient to mention one neceffary Caution, namely, that if the Obstruction is fudden, and the Patient ftrong and plethoric, Bleeding must not be omitted; for daily Experience teaches us, that, in this Manner alone, Veffels obstructed by Fulness, or by too great a Contractility of their Sides, can be fafely, fpeedily, and agreeably freed from thefe Diforders.

(r) "Balneum atque humor omnis alienus eft. Cel-" fus, lib. iii: cap. 21.—Balneum rarum res amat. Ibid.

D 4 25. The

25. The Impediments to the free Courfe of the Blood in the large Veffels by Tumours, Strictures, or other Caufes mentioned in Sect. 14, are to be removed by the Medicines appropriated to the Cure of each, or fometimes by chirurgical Operations. But in most of these Cafes very little Affiftance can be had from Medicine; for what Remedy are we acquainted with that can remove Schirri, Steatoms, Imposthumes, Polypi, or fuch other obstinate and dangerous Obstructions, when feated in any of the three large Cavities of the Head, Thorax, and Abdomen? Relief in Dropfies depending on fuch Caufes, can only be given by difcovering and curing the original Difeafe; the Method of doing which must be learned from the Rules peculiar to the Cure of each of those Diforders; to treat of which would lead us too far from the prefent Subject, each Difease requiring a separate Treatment.

26. A faulty State of the Fluids in Dropfies, mentioned Sect. 15, is to be corrected by different Means.

a. Where

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where the Blood is thick and fizy, and its Momentum too great in the Veffels, which is often the Cafe with young People, the cooling antiphlogiftic Method muft be purfued, and the Patient muft be blooded, although the Symptoms of the Dropfy manifeftly appear. Nature has frequently directed it (s); one of the oldeft and beft Obfervers of her Operations prefcribes it (t); and daily Experience confirms its Ufe (v).

(s) A very firong Man, about the Age of thirty, was feized with an Anafarca, his optic Nerves were obfructed, and he gradually became blind; but having difcharged from the Nofe about four Pounds of Blood, he was foon reftored to Health in every Refpect but that of his Blindnefs, from which he was never totally free. G. Fab. Hildan. Obf. cent. 1. obf. 50.—A Man who laboured under a Dropfy and Fever, was much relieved by an Hæmorrhage from the Nofe, that happened twice or thrice every Day for the Space of three Weeks; the Swelling began to decreafe, and the Diftemper was totally difpelled by the Ufe of Diaphoretics and Diuretics. Mifcel. Curiof. dec. 2. ann. 3. obf. 170.

(t) Hippocrates is certainly right when he orders a Vein to be opened in dropfical Cafes, where there is a Difficulty of Breathing, the Patient in the Vigour of Life, and it is the

B. Too thin watery Blood is to be reftored to its natural healthy State by—a dry eafy digefted

the Spring Seafon. See his Book De Vietu acutorum, feel. 62.

(v) I have frequently ordered Bleeding under fuch Circumftances, but never found any bad Effects from that Practice, but, on the contrary, have feen the Patients confiderably relieved thereby; and in recent anafarcous Cafes, where the Lungs are much affected, attended with Fever, often nothing will give Relief till the Lancet is ufed. The two following Cafes are of Ufe; the one to fhew the good Effects of Bleeding, the other the fatal Confequences of omitting it under fuch Circumftances.

On the 20th of December 1758, Mary Wood, a Girl fourteen Years of Age, was admitted into St. George's Hofpital for an univerfal Anafarca, attended with a Difficulty of Breathing, a fmall quick Pulfe, a Paucity of Urine, and which was high-coloured, and deposited a Brick-duft like Sediment. Her Diforder had begun four Weeks before, from catching Cold. She was at first ordered a Squill Draught Morning and Evening, and a Scruple of Jalap with ten Grains of Nitre to be taken twice a-Week—On the 23d her Skin was dry, fhe complained of being restlefs at Nights, and was ordered to take fixty of the anodyne antimonial Drops every Night at Bed-Time.—On the 25th the Difficulty of Breathing had increased, and I ordered

gefted nourifhing Food; and Drink which gives a proper Stimulus to the Fibres, and is found by Experience to promote the Perfpiration and Urine, of which kind is Rhenifh or other

ordered her to lofe fix Ounces of Blood, and to continue her former Course .- Next Day her Breathing was eafier, and the Blood which was taken away appeared very fizy .---From this Time her Medicines began to have a good Effect. The Squill Draughts now relieved her Breathing, and promoted the Discharge by Urine; the antimonial Drops brought out a breathing Sweat at Nights, and her Phyfic operated freely with an evident Decrease of the Swellings. On the 5th of January fhe was threatened with a Relapfe, and her Breathing became worfe, and the Swellings began to increase; but these Symptoms were relieved by a fecond Bleeding, and the Application of a Blifter to the Back. ---- On the 9th of February fhe was threatened with a fecond Relapfe, which, however, was prevented by the Lofs of five Ounces of Blood; after this the grew better daily, and by the 25th the Swelling and Difficulty of Breathing were entirely gone, and the complained of nothing but an Inflation of her Stomach, which feemed to depend on Weaknefs. and was got the better of by a Dofe or two of Rhubarb, and the Ufe of the Gum Pills and Bitters. She was difcharged

other Wine, with fome of the chalybeate Waters of *Tunbridge*, *Spaw*, or *Pyrmont*—by Friction and Exercife—by the Ufe of the ftimulating Medicines mentioned in Sect. 23, and

charged the Hospital the 21st of March, seemingly in good Health.

On the 20th of December 1758, the fame Day Mary Wood was taken into the House, John Atwood, a Lad of fixteen Years of Age, was admitted as a Patient for fimilar Complaints. He had an universal Anafarca, a Difficulty of Breathing, a small but quick Pulse, and made but very little Water, and that of a high Colour; which Complaint, he faid, had come about four Weeks before, by fitting up three Nights fucceffively with a Companion who was fick. I at first ordered him the fame Medicines, as Mary Wood, and on the 25th was intending to have had him blooded as well as her ; but from the Prejudice there is against Bleeding in dropfical Cases, I thought it was better to delay it, till I faw what Effects it fhould have with the Girl. I returned next Day to the Hofpital to fee these two Patients ; but the Boy was dead. His Body was opened ; his Lungs were inflamed, as were most of his Inteffines, though he had never complained of any acute Pain in thefe Parts.

Hoffman de Hydrope, obf. 9. tells a very pretty Cafe of an hydropic Patient, whose Disease he thought depended on

and of fuch other Remedies as quicken the Circulation, promote the animal Process, and at the same Time increase the different watery Excretions.

 γ . A too putrefcent diffolved State of the Blood, fuch as is fometimes obferved in Dropfies after malignant Fevers, and in fcorbutic Habits, is to be corrected by the Bark and other Antifeptics, joined to the Ufe of Diuretics, Diaphoretics, and the occafional Ufe of Purgatives.

27. In every faulty State of the Fluids, if the Perspiration or the Secretion by Urine, or any of the other natural Secretions or Excretions be obstructed, we ought to endeavour by proper Means to restore these Evacuations.

on an Infarction of the pulmonary Veffels, and who was cured principally by repeated blood-lettings.—Sponius affirms, that a Man in a Dropfy, which had increased rather than diminished by the Use of Hydragogues and Diuretics, was cured by twenty Bleedings. Aphorism. Nov. sect. 5. § 87.

28. When

28. When the Caufe of the Dropfy is a Contraction of the Veffels from Rigidity, the Cure is extremely difficult; for those Things which relax the Veffels, increase the Disease. Such Patients, however, are not entirely to be given up as incurable, fince it is better to try a doubtful Remedy than none.

a. Let the Diet be mild, foft, and relaxing, though not too watery: this may be compofed of well-baked Bread, Broths, and Jellies, and the boiled Flesh of young Animals, Eggs,, and fuch like.

b. If foft mild Oils applied and rubbed upon the Skin penetrate to the interior Parts, as is commonly believed, they will be of great Service in foftening the Fibres (u).

c Warm

(u) In fix afcitical Patients, who had their Bellies rubbed Morning and Evening with Olive Oil, for a Fortnight or three Weeks together, the Skin of the Abdomen was relaxed; after the two or three first Frictions the Patients

c Warm Water and its Steams are excellent Remedies against Rigidity; but in the Cafe we are now treating of, their Affiftance must be very cautiously used, left they increase the aqueous Collection, by fupplying the Blood with too much Water. The Waters, however, which are plentifully impregnated with penetrating and diffolving mineral Particles of Salt, Sulphur, or Iron, fuch as Sea-Water, the Mineral Waters of Aix-la Chapelle, Bath, Spaw, Tunbridge, &c. may be made use of (w).

tients found themfelves eafier, and thought they made Water more freely; but these Effects foon ceased, and they found no more Relief from this Remedy. Two of the Cafes I faw, the others I was told by Gentlemen who attended the Patients.

(w) "But others, and not without Reafon, approve " of the Vapour of Sea-Water in order to provoke fweat-"ing. A Bathing-Tub (fay they) must be filled with " boiling Sea-Water, into which a fquare Machine, fecured " with leathern Straps, containing the Patient, must be " immerfed ; but it must be fecured in fuch a Manner by " the

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d. A

d. A Difcharge of the dropfical Water muft be promoted, by Urine, Sweat, and Stool; not indeed by fwallowing Quantities of watery Liquors, or Medicines that are very acrid or ftimulating; for the firft would increase the Dropfy, the others augment the Rigidity; but by those Medicines of the different Kinds that are mild, but not too watery.

" the Leather, that no Water can enter, and the Sweat-" ing will be excited by the Exhalation of the hot Fluid. " But the Water muft be kept hot by the frequent Immer-" fion of red-hot Bars of Iron." Cal. Aurelian. de Morb. chron. lib. iii. cap. 8 .- The Counters of Keglewich having a Dropfy in the Womb, was freed from it after bathing eight Days in the warm Baths of Newhaus in Styria, having voided a great Quantity of Water and Wind. Miscel. Curiof. a. n. c. dec. 3. ann. 5 & 6. obf. 162 .- A Taylor labouring under a Droply of the Belly, having gone into the Baths at Wishad, and drank a great Quantity of these Waters, perceived the Swelling begin to fubfide while he remained in the Bath. When he came out of it, he was weak and faint, but being refreshed by Cordials and Food, he recovered every Day after. Ibid. dec. 1. ann. 2. obf. 218 .- See the Cafes of fix Patients cured by drinking of Bath Waters, and bathing in them. Pierce's Bath Memoirs, part 2. chap. 4.

29. If,

29. If any Receptacle or Veffel, which naturally receives or transmits a watery Liquor, is opened, and furnishes the Matter of a Dropfy, I fearce know what Affistance Art can give, unless there is such Access to the Opening, that Digestives, Escharotics, Styptics, or Ligatures, may be applied, or a proper Preffure can be kept on the Part by Means of Compressed and Bandages.

30. When a natural Outlet from a Cavity is fhut up, it ought to be opened by Methods adapted to remove the obftructing Caufe. Coagulated or thickened Liquors are to be diffolved; too rigid contracted Canals are to be relaxed; united Sides of Paffages are to be feparated; and fo forth. The Methods of executing which varying according to Circumftances, cannot be confidered till the particular Cafes are deferibed.

31. A Dropfy produced by the Preffure of a preceding hydropical Collection E can
can only be cured after removing the original Difeafe.

32. If the Water of an hydropic Cyft has made its Way into another Cavity, it muft be treated as directed in Sect. 29. or as shall be mentioned afterwards when we confider incyfted Dropfies.

INDICATION SECOND.

33. To answer the fecond Indication, the Waters are to be discharged out of the hydropic Cavities, either by natural or artificial Openings.

34. The natural Openings for hydropic Water, are only (a few Cafes excepted) the Extremities of the abforbing Veins, whofe Power therefore must be fo much increased, that they may abforb more Liquors than the Arteries pour out.

35. The Abforption is increased by every Thing which reftores the Strength and Energy of

of the Solids, of which fome Account has already been given.

36. However it is neceffary to obferve, 1. That this Abforption can fcarce ever take Effect when the Cavities are much diftended by the inclofed Water. Either the Sides of thefe Cavities must be relaxed, or fome of the Water must be let out, before the abforbent Veins can act. 2. That the nearer the Medicines defigned to promote Abforption are applied to the Parts affected, their Effect is greater and more certain.

37. If the fuperfluous hydropic Water is abforbed and mixed with the Blood, it ought to be expelled from the Body as foon as poffible, left it be again extravafated and thrown into fome of the Cavities. For this Purpofe the ferous and aqueous Excretions are to be increafed.

38. These Excretions are made from the Stomach, Intestines, urinary Passages, the Skin, or falivary Organs.

E 2

Contra A

Moft

39. Most of the Medicines which promote these Excretions exert a confiderable Stimulus in their Operation, whereby they also strongly promote the Absorption of extravasated Fluids from the Cavities containing them; but as the lax unfeeling Fibres of hydropic People are not easily roused into Action, they require a stronger Dose than is necessary in many other Diseases.

40. Emetics increase the Oscillation of the Solids, as well as the Motion of the Fluids contained in them. By which Means, and the forcible Compression of the Bowels one a-gainst another, the Excretion of watery and stomach, are augmented. The more violent Emetics commonly used, are the Vinum Antimoniale, Turbeth Mineral, Emetic Tartar; the milder Ipecacoana, Squills; and the gentlest are, white Vitriol, bitter Infusions, and such like (x).

Some

(x) In the Observations and Inquiries published by a] Society of Physicians at London, vol. ii. art. 24. we have an Account

Some Caution however is neceffary in administring Emetics, especially to Patients who are

Account of the Cafe of a Gentleman 46 Years of Age, who had been thrice tapped for an Afcites, and was likewife fwelled all over. The third Day after the last Tapping, he was attacked with a violent Vomiting, which continued for upwards of forty-eight Hours. At first he threw up a large Quantity of dirty Water, mixed with a viscid Phlegm, but next Day what he vomited was extremely offenfive, and feemed loaded with Excrement. The third Day he had an Infusion of Senna with Cream of Tartar and fifteen Grains of the Pilulæ Mathæi, which procured him Relief, and made him Sleep fome Hours. After he awaked, he had no more Vomiting, the Phyfic foon began to operate, and gave him feveral watery Stools. From the Beginning of the Vomiting the Swelling of his Legs began to fubfide, and by the Time it was over, no Degree of Swelling remained. The Quantity of Water he vomited up, exclufive of what he drank, was not lefs than fifty odd Pints. After this Accident, by great Care, an uninterrupted Ufe of corroborating Medicines, nourifhing Diet, daily Exercife, the Flesh Brush, and Bathing in Sea-Water, the Gentleman recovered his Health, lived fifteen Months free from dropfical Complaints, and at laft died of another Diftemper.

Dr. D. R-fs, formerly Phyfician to St. George's Hofpital, after having been long in a bad State of Health, be-E 3

came

are fubject to Hæmorrhages, feeing the Effort of vomiting may, by augmenting the Velocity of

came dropfical, for which he was tapped. After fome time the Water collected again in his Belly, and he was thinking of having it let out a fecond Time, when he was feized with a violent Vomiting, and brought up feveral Pints of a dark-coloured Liquor, which he faid tafted like a Decoction of rotten Straw, and was exactly fimilar in Appearance to what had been drawn off before by Tapping. After the Vomiting he had a Number of loofe Stools, and difcharged feveral Pints of the fame Sort of Liquor he had vomited up. In a few Hours he found almoft all his Swellings gone; and by taking a few Dofes of gentle purgative Medicines, his dropfical Complaints were entirely removed, and he lived three or four Years afterwards.

A young Man labouring under a Dropfy of the Belly fpontaneoufly vomited up a great Quantity of Water at two different Times, and was cured without taking any Medicines. *Marcel. Donat. Mirab. Hift. lib.* iv. cap. 21.—A Nun after being tapped feveral Times for a Dropfy, was cured by the Ufe of Vomits, all other Medicines having proved ineffectual. *Du Verney. Memoir. de l'Acad. des Sciences*, 1703.— In the Year 1752, a Man in the Hofpital at *Edinburgh* was cured by Dr. *Rutherford* of a Dropfy, which proceedcd from an afthmatic Complaint, by the Ufe of frequent Vomits and a few Purgatives.—A dropfical Patient went out

55

of the Blood, open the Veffels again.—To fuch likewife as are threatened with Lethargy or Apoplexy, left the Matter obstructed in the Veffels be thereby impacted into fmall capillary Arteries, where the Force of the Circulation, and the Power of Medicines, have little Effect either to refolve or drive it forward into the Veins: and for the fame Reason they are dangerous to People under a Dyspnea from thick viscid Matter obstructing the Lungs (y). Eme-

out fome Miles to Sea in a Boat, which made him fick and vomit, by which Means and ftrong Exercise he was cured. Foreft. fchol. ad obf. 32. lib. xix.

(y) The good, but dangerous, Effects of Vomits in Afthmas from thick vifcid Phlegm, I have known twice experienced in the fame Lady. The firft Vomit fhe took was in the Paroxyfm, which, after violent ftraining almost to Suffocation, produced its Effect. The Fit went off, and did not return for fome Months. After its Return fhe frequently entreated, but was not permitted, to try the fame Expedient, till fome Years after, when the Fit was extremely obftinate, and would give Way to no other Remedy, her Phyfician was obliged to confent. She accord-E 4 ingly

Emetics given in fo fmall Dofes as not to provoke vomiting, and frequently repeated, often caufe a plentiful Difcharge of watery Liquor by Stool, Urine, or Sweating.

41. Purgatives generally quicken the Pulfe before they operate; they increase the Secretion of thin Liquors into the Intestines, and difcharge their Contents; while at the fame time, by diffolving the Crasis of the Blood, they render the whole Mass more watery, and weaken the Patient.—The strong Cathartics, fuch as Elaterium, Gamboge, Scammony, Jalap, the Juice of the common Flower de Luce or Iris, and such like, are called Hydragogues, from their causing a great Discharge

ingly took the Vomit; the fame Scene, but with infinitely more Violence, was acted over again. Her Face turned black, all her Veins feemed ready to burft, her Pulfe and Breath were gone, when fortunately changing her Pofture, in order to be blooded, the Vomit operated, and, as before, carried off the Fit: but fo great was the Danger, that the Gentleman who attended her determined never to try this Remedy again with her.

of

of watery Liquors.—Other Purgatives, fuch as Senna, Rhubarb, Syrup of Buckthorn, &c. are milder and weaker ;—and there is a third kind, commonly called Eccoprotics, that are very mild ; of this Sort are Cryftals of Tartar, Prunes, and Tamarinds, which do little more than difcharge Fæces, and therefore are of little Service to hydropic People.

Among the Cathartics one may reckon Mercury and its Preparations, which of themfelves are purgative, and when joined to other Cathartics, augment their Effects; fuch are Quickfilver extinguished in Soap or Honey, Mercurius Dulcis, Calomel (z).

It

(z) In the Beginning of the Year 1750, Dr. Rutberford cured a Patient (A. Bruce) in the Infirmary at Edinburgh of an univerfal Dropfy, by giving him ftrong hydragogue Purges almost every Day for fome time, and then by the Use of ftrengthening Bitters, Bark and Steel, and proper Exercise, he was reftored to perfect Health.—A Gentleman was taken so ill of an Ascites, after a Jaundice and vomiting of Blood, that he had Thoughts of being tapped, when Dr. Lister ordered him the following Purgative; R. Decost.

It ought to be remarked, that, if the hydropic Water is not evacuated, nor the Symptoms alleviated by the frequent Use of strong Purgatives, the Mischief must of Course be increased; for " when the Strength is wasted, violent

Decost. Epithymi. unc. iv. Syrup. e Spin. Cervin. unc. iii. Elater. gr. v. m. which made him pais by Stool above three Gallons of Water; and by taking two more Dofes of this Medicine, at proper Intervals, he got well, and never had a Return. Lifter. Exercit. Med. de Hydrope, ægret. 4. -A Peafant being feized with a Dropfy after an Ague, was cured by three Dofes of the following hydragogue Purge; R. Succ. Irid. Noftrat. unc. iii. Mannæ unc. i. fs. which made him evacuate a great Quantity of Water both by Stool and Urine. River. Obf. cent. 4. obf. 82 .- See other Cafes of the Effects of the Iris, in Mife. Cur. a. n. c. dec. 2. ann. 8. obf. 63 .- AA. Med. Berol. dec. 1. vol. x. feet. 4 .- Med. Effays, vol. v. art. 8 .- Van Swieten mentions a ftrong young Man whom he cured of a recent Anarfarca and Afcites by two Dofes of the following Phyfic ; R. Pulv. Jalap. fcrupulos ij. Turpeth Mineral. grana iv. See Comment. in fect. 1247, vol. iv. p. 264. Sydenham cured a Woman of an Afcites by the Ufe of the Syrup of Buckthorn alone. De Hydrope .- It is needlefs to multiply Examples of Cures made by purgative Medicines ; there are few Writers on the Dropfy who do not relate fuch.

" Purging

" Purging is hurtful, fince the more Moisture is carried off from the Body, the greater Quantity of it will, in a short Time, be again admitted into the Cavities," as Dr. Mead has very justly observed (a), and we find to be true by daily Experience.

42. If the extravafated Water can be carried off by the urinary Paffages, the Difcharge is made with little Lofs of Strength; but it is to be regreted that the Operation of the Medidicines intended to promote this Excretion is very uncertain; the Urine of hydropic People often continuing to be made in fmall Quantities, and very thick and deep coloured, notwithftanding the Ufe of the moft efteemed Diuretics.

a. The Medicines employed to increase the Discharge of Urine, are,

(a) " Et ubi fractæ vires, nocet vehemens per alvum " purgatio; quo enim plus humoris e corpore ejicitur, eo major ipfius copia brevi in cavitates refluit. *Mead. Mon. Med. cap.* 8.

Plentiful

Plentiful Draughts of thin attenuating Liquors; but as they likewife relax the Solids, and increafe the Difeafe by furnishing a Supply of watery Matter, the Use of them in the Dropfy, is for the most Part deservedly forbid; yet fometimes, the rarely, they have produced good Effects (b).

β. The Acids, fuch as Juice of Lemons, Tartar, Vinegar, Spirit of Vitriol, and fuch like Substances, promote the Excretion of Urine, and fome of them have been given with Ad-

(b) A Monk who had taken various Diuretics for a Dropfy without any Benefit, having drunk a Decoction of Saffafras twice a Day, paffed Urine plentifully, and was cured. Mifc. a. n. c. 1715, cent. 3 & 4. obf. 28—A Nun paffed Urine plentifully after eating largely of Water Cucumbers, and drinking a great Quantity of Water, which cured her of a Dropfy. Mifc. Cur. a. n. c. cent. 5 & 6. obf. 96.—A Girl, who had the Dropfy to fuch a violent Degree that fhe feemed ready to burft, drank great Quantities of thin watery Liquors, contrary to the Advice of those about her, but fortunately a Diarrhæa enfued, which cured her. Panaral. Romani Pentecoft. 2. ebf. 24:

vantage

vantage in dropfical Cafes (c); but as they check the animal Process, and diminish the Heat

(c) The Baron Van Swieten, in his Commentaries, fect. 1243, quotes a Cafe from Combalusier, where Vinegar drank to the Quantity of five or fix Ounces was of Use in curing the Afcites. See Combalusier's Pneumato Patholog. p. 535.

In the fourth Volume of the Commentaria Academ. Bonon. p. 260, Dr. Vincentius Menghini has a Paper on the Ufe of the Cream of Tartar in the Dropfy. He fays he had the first Hint of its Use in this Diforder from Dr. Gherlius's Obfervations, who mentions his having cured an Afcites by giving half an Ounce of Cream of Tartar for feveral Days fucceffively. He then relates fifteen Cafes which were under his own Care, and feverals which were under the Care of others, most of which were cured by the Use of this Medicine, given from two Drachms to an Ounce in the Day, diffolved either in an aperient Decoction or in weak Broth, and its Ufe continued from twenty Days till between two and three Months .- In feveral of thefe Cafes it had no Effect upon the Diforder for the first thirty or forty Days, though afterwards, by perfevering in its Use, it effected a Cure. The common Operation of this Medicine was to give fome loofe Stools, and after taking it for fome Time, it acted as a very powerful Diuretic. During the Ufe of this Medicine, he fays the Patient ought to live on Barley, Spinnage, Endive, or light Broth, and to drink but little, and that to be a fmall Wine.

He

Heat and Momentum of the Blood, they are not in general fo proper Diuretics in a Dropfy as those Medicines which have a brisker Stimulus, and both promote this Excretion and increase the Force and Energy of the Vessels. When the Refrigerants are made use of, some stimulating Medicine may be mixed with them occasionally (d).

Y. The

He concludes his Paper with the following Obfervations. 1. That this Medicine proved a firong Diuretic, even in those Cases where it did not make a Cure.—2. That we are not to expect that it will remove every Dropfy which depends on difeased Viscera.—3. That all who were cured by this Medicine were reduced very low, and appeared extremely thin and meagre; but recovered their Flesh and Strength by a proper Diet and Regimen after the Dropfy was gone.—4. That they were all in the Vigour of Life, and the Discase not inveterate, but only of a few Months flanding.

I have used the Cream of Tartar in the Manner here recommended, and have found it to be a good Medicine in fuch Cafes; and although it will not answer in every Cafe, yet it will often produce good Effects. Some of the Cafes in which I ordered it are related in the fubsequent Part of this Effay.

(d) A Man about fifty was fuddenly feized with a Dyfuria, violent Pain and Vomiting, his Belly fwelling to an immenfe

y. The alcaline Salts, both fixed and volatile, increase the watery Secretions; but those of the fixed lixivial Kind have been observed

immense Size : He was blooded, purged, had several Clyfters, took Mercurius Dulcis, whilft Cataplaims and other Remedies were applied externally; but all to no Purpofe. A Catheter was introduced into his Bladder, but there was no Urine in it. The Man at laft feemed a-dying, putrid Ulcers beginning to appear, and a troublefome Hiccough feizing him, when Dr. Lifter prefcribed the following Medicine : R. fuce. limon. recent. unc. vi. fuce. cochlear. bortenf. unc. iv. fuce. plantag. hepat. fingul. unc. ii. fyr. violar. unc. ii. m. cap. unc. iv. tertia. g.h. By the Ufe of this Medicine he made a great Quantity of Water, was much relieved, and by the Affiftance of a few Purgatives recovered. Lister Exercit. de Hydrope, ægrot. 15.- A ftrong young Man became hydropic after a quartan Ague; he had difficult breathing, and made but a fmall Quantity of Urine with a lateritious Sediment. I ordered him a bitter Infufion, with fome Pills of Nitre, Cryftals of Tartar, Balfam of Tolu, and Soap; by the Help of these he made Urine plentifully, his hydropic Swellings abated, and by the Use of some firengthening Bitters, and proper Exercife, he recovered his Health.

particularly

particularly to promote the Difcharge by Urine (e).

J. And

(e) An unmarried Lady, about thirty Years of Age, after taking many Purgative and other Medicines for a Taundice, Dropfy, and Nephritis, was cured by the lixivial and other Salts, which made her pass an almost incredible Number of Stones. Mifc. Cur. a. n. c. dec. I. ann. 2. obf. 174 .- The good Effects of these Salts in the Dropfy are also to be seen ibid. cent. 9 5 10. obf. 55 .- A Woman between forty and fifty Years of Age, never married, a Valetudinarian for twenty Years before, and fubject to immoderate Fluxes of the Menfes, was affected with an unit rfal Anafarca, for which fhe took many Medicines of different Kinds without receiving any Benefit. She fwelled to a prodigious Size, and feemed almost a-dying when the was advifed to take the Broom-Afhes. She began the Use of this Medicine the 8th of December 1753, and continued it for fome Months. She foon was much relieved, made Water freely, and in confiderable Quantity; her Swellings began to decreafe, and were all gone by the Month of May, when the left off taking her Medicine, and had had no Return of her dropfical Complaints in May 1756. She at first took only a Drachm a-Day, divided into three Dofes, but gradually increased the Quantity to half an Ounce, and used no other Medicine while the continued this. This Account I had from Mr. Bayne, Apothecary in Cork-freet, who attended the Patient. Thomas

And the neutral Salts prepared by the Mixture of Acids and Alcalies, when pro-

Thomas Blundell, a young Man twenty Years of Age, a Shoemaker by Trade, after working for fome Months in a cold Place, loft his Appetite, and, in November 1762, observed that his Legs began to swell, and soon after he fwelled all over. On the 18th of May 1763, he was made an Out-Patient at St. George's Hospital. He had then an universal Anafarca, and an evident Fluctuation of Liquors was to be perceived in his Belly. He made but little Water, and that was of a high Colour. His Countenance was livid, like to a Perfon whole Liver is difeafed. He had a conftant Thirft, refted badly at Nights, and was inclined to be coffive. I ordered him the faline Draughts with five Grains of Rhubarb, three times a-Day ; an anodyne Draught, with half a Drachm of the Lixivium of Tartar, every Night at Bed-Time; and a Dofe of Jalap and Nitre twice a-Week. From the Time he began this Course of Medicines, he made Water freely, and evacuated large Quantities by Stool the Days he took his Phyfic, and by the 10th of July he was free from all dropfical Complaints. Being still weak, he was ordered an Ounce of the Decoction of the Bark, mixed with two Drachms of the Tinctura Aromatica, to be taken Morning and Evening; and a Dofe of Tincture of Rhubarb, to be taken once a-Week. On the 27th of August he returned Thanks for his Cure, being ftrong, and feemingly in good Health.

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perly

perly managed, often prove powerful Diuretics (f).

e. As

(f) A Woman of feventy was cured of a Dropfy by taking a few Drops of rectified Spirit of Salt mixed with Salt of Wormwood, and fome of the acrid Diuretics. Mifcel. a. n. c. dec. 2. ann. 7. obf. 57 .- See afterwards the Cafe of John Mackan, who was cured of an Anafarca by the faline Draughts and Purgatives .- In the fifth Volume of the Edinburgh Medical Effays, art. 13, Dr. Fothergill tells us, that the tartarus regeneratus, or terra foliata tartari, given from half a Drachm to two Drachms, is an excellent Alterative and Diuretic. From three to fix Drachms is a very mild Cathartic, that never finks the Spirits, or raifes any violent Diforder, and particularly is ferviceable to dropfical Patients. He then mentions the Cafe of a married Woman forty-eight Years of Age, who received great Relief by taking three Drachms of the terra foliata tartari once or twice a-Week for upwards of a Year, which gave her two or three loofe Stools, with a large Evacuation of Urine, without exciting the menftrual Difcharge, or affecting her Strength. Other Evacuants, both Diuretics and Purgatives, had been tried, but they produced a Discharge of Blood from the Vagina, which had funk her prodigioufly. Corroborants, especially of the aftringent Kind, foon ftopt the Flux, but at the fame time contributed to increase the Swelling, by leffening the Discharge by

E. As do many of the ftimulating Medicines, Mustard-Seed, Leeks, Garlick, Squills, and others mentioned in Sect. 23. 8 (g).

ζ. The

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by Stool and by Urine. This Patient at laft had her Days fhortened by taking too rough a Purge.—In the New Difpenfatory, which is intended as an Improvement on Quincy, part ii. cb. 8. p. 296, we are told, that two Drachms of the vegetable Alkali faturated with Vinegar, and taken in a liquid Form, without any Preparation, often gives ten or twelve Stools in hydropic Cafes, and occafions a plentiful Difcharge of Urine, without any Inconvenience.

(g) A Peafant having laboured long under an Afcites, and taken many Remedies without receiving any Benefit, was at laft advifed to eat Garlick; by the Ufe of which he made great Quantities of Urine, and was in a little Time cured of his Dropfy. Burnet. Medic. Thefaur. lib. viii. fell. 12. fubfell. I. He alfo adds, that he has feen feveral cured by this Remedy. See Hiftories fuch as this in Foreft. lib. xix. obf. 27.

*** The late Dr. Young of Edinburgh, in a Letter to a Friend (a Phyfician in London) acquainted him, that he had often feen anafarcous Swellings which accompanied afthmatic Complaints relieved by the Ufe of Garlick; and he related four Cafes where the Swellings were entirely removed by the Patient's fwallowing from two to fix Cloves of Garlick in the Day.—Another Phyfician acquainted the fame Gentleman, that he had feen great good Effects in F_2 the

ζ. The fame Effects are often produced by the Ufe of the natural Balfams; for Example, Turpentine,

the Dropfy from the expressed Juice of the Roots and Tops of Leeks, taken to the Quantity of a large Wine Glassful Morning and Evening, which operated powerfully by Urine.—A hydropic Man cured by eating Onions. Miscel. a. n. c. cent. 5 & 6 obs. 40.—See Cases of the Effects of Bitters, Mustard-Seed, and other flimulating Medicines, in Notes to Sect. 23.—Dr. Storek of Vienna, in the Year 1763, published an Account of the Use of an Oxymel made of the Root of the Meadow Saffron (Colchicum Autumnale) in Dropfies. He relates thirteen Cases, nine of which, he fays, were cured by this Medicine; the other four received Benefit from its Use. His Oxymel was made in the following Manner.

R. Rad. colchici autumnalis recent. in taleolas secti unc. i. Aceti Vini lib. i. digere per 48 horas in phiala et cola, et dein R. Colaturæ lib. i. mellis puri lib. ii. mifc & coque leni igne ad mellis spissidiudinem agitando cochleari ligneo.

Of this Oxymel he gave from a Drachm twice or thrice a-Day to two Drachms four times in the Day; its Ufe was continued from two to fix Weeks; it operated as a firong Diuretic.

This Oxymel has been tried in England.—The late Dr. Woolaston, Physician to her Majesty's Household, told me, that he had ordered it to feveral Patients in Guy's Hospital, but did not find it to answer what he expected from Dr. Storck's

Turpentine, the Copaivy, Tolu, or Peruvian Balfams; as also by the Use of fome animal Substances, such as Millipedes, and Cantharides in fmall Quantities (h).

n. Mercury

Starck's Account of it, nor did he think it near fo powerful. a Diuretic as the Squills .- In a Letter (dated October 12. 1764) I had from my Father, he fays Dr. Storck's Oxymel was faid to have answered wonderfully in the two first Patients it was given to at Dalkeith ; but it has failed in feveral Patients, to whom it was given in Edinburgh.-I have ordered it to feveral drophcal Patients in St. George's Hofnital, but it did not act as a Diuretic, except in one Cafe, and there only in a fmall Degree, and the Patient received but little Benefit from its Ule. tion of ha

(b) A Scruple of Spirit of Turpentine with Tinclure of Bezoar and red Coral, and forty or fifty Drops of Spirit of Sea Salt, brought away Urine from a Man in a Dropfy and quartan Ague, to the Amount of twice or thrice the Quantity of what he drank, and cured him. Mifcel. Curiof. dec. 2. ann. 3. obf. 110 .- Turpentine with Spirit of Salt, fome fimple Waters, and Syrup, had the like Effect. Ibid. dec. 3. ann. 4. obf. 74 .- To a Country Woman labouring under an Afcites Dr. Ruffel ordered the following Pills : R. Milliped. ppt. drachm. ii. fapon. venet. unc. fs. gum. ammon. drach. ii. balf. fulphur. cum oleo terebint. q. s. ut fiant. pil. no. 80. She took fix or eight of these Pills every Day, and after them a Draught of the follow-F 3

ing

". Mercury and its Preparations may be justly ranked among the Diuretics; for when

ing Wine : R. fal. abstinth. drach. i. facchar. alb. drach. iii. ol. stillat. nucis moschat. gutt. vi. vin. albi lib. i. m. ut fiat vinum medicatum. On taking these Medicines she voided fixteen Stones of an irregular Shape, about the Size of common Marbles that Boys play with ; foon after the was feized with fuch a continual Flux of Urine, that the Waters flowed from her involuntarily in fo great Quantities as to pals through the Bed and Chamber-Floor. The Patient was then reftored by proper Cordials and Bandages, the Dropfy being almost in a Moment of Time absorbed and drained off by the Kidnies. Ruffel on the Ufe of Sea-Water, feet. 2 .-- The late Dr. P. Shaw used to effeem the Balfam Copaivi, mixed with the Lixivium Tartari in the Proportion of half a Drachm of the Balfam to a Scruple of the Lixivium, given in any common Draught, as a powerful Diuretic in Dropfies. And Sir Edward Wilmot used to recommend half a Drachm of the Sal Polychreft, mixed with fifteen Drops of the Oleum Juniperi by means of the Yolk of an Egg, in two Ounces of any common Julep, and given twice a-Day, as a good Diuretic in fuch Cafes. If he gave it only once a-Day, he doubled the Dofe .--Other Practitioners have joined Nitre and the other neutral Salts to the natural Balfams in various Forms .- Hippocrates recommends the Bodies of three Cantharides without the Heads, Wings, or Feet, bruifed in Water, as a good Medicine in the Dropfy. De Vietu acutorum, feet. 66.

given

given fingle, or mixed with other Medicines, it fometimes efficacioufly promotes the Excretion of Urine (i).

3. When

(i) Quickfilver killed in Honey, Conferve, or fome of the natural Balfams, was formerly a Medicine much ufed in dropfical Cafes .--- For a poor Woman about fifty Years of Age, whole Belly fwelled in confequence of a fcanty Secretion of Urine, I prefcribed, after fhe had taken a hydragogue Purge, two Ounces of an Infufion of Juniper-Berries and Gentian in Ale, adding a little Spiritus Mindereri, to be taken Morning and Evening, and eight Grains of the mercurial Pill of the Edinburgh Difpenfatory, at Bed-Time. The Ufe of these Medicines brought on a copious Discharge of Urine, and in a Fortnight's Time the recovered her Health.

*** The late Dr. Stevenfor of Edinburgh wrote fome Years ago to a Phyfician, his particular Friend, that he had cured a Lady of feventy Years of Age of a Dropfy, by ordering her to take conflantly for fome time fo much of a Quickfilver Pill as contained eight Grains of the Quickfilver, every Night at Bed-Time ; and four of the following Pills three times a-Day : R. Allii recentis drach. iii. G. ammon. fapon. venet. fingulorum drachm. i. pulv. milliped. q. s. ut fiant pil. gr. v. which were washed down with two Ounces of the following Infusion : R. Ciner. genist. unc. v. limatur. mart. drach. vi. cort. cinam. contus. drach. iii. femin. coriand. drach. ii. femin. finap. drach. iv. vin. Rhenan. aq. petrofilin. fimp. fingulorum lib. i fs. infunde F 3

per

3. When the Paffage of Urine is obstructed by Sand or Stones, repeated Doses of the mineral Acids or lixivial Salts, properly diluted, Soap, Lime-Water, and other Remedies for calculous Diforders, are to be given.

per quatriduum et cola.—He mentioned likewife another Lady whom he had cured by the Ufe of the fame Pills, and of Garlick, and fome Dofes of Rhubarb.—My Father ordered two or three Dofes of Mercurius Dulcis to a Man who had an univerfal Anafarca and Afcites, which produced fuch a copious Difcharge of Urine, as to remove his Complaints entirely in one Night.

In January 1762, I ordered three Grains of Calomel, Morning and Evening, to —— Carter, a Soldier in the 11th Regiment of Foot, who laboured under an Anafarca, which had come after a Flux, and had yielded nothing to other Remedies. This Medicine proved ftrongly diuretic, and removed his dropfical Complaints.—A Phyfician told me, that he has cured two Dropfies by giving Quickfilver killed in the Balfam Sulphur. Terebinth. and made up into Pills with the Flour of Starch, and given from fix or eight Grains to a Scruple at Bed-Time, and making the Patient take next Day from ten to fifteen Grains of Rhubarb. Thefe Medicines acted as ftrong Diuretics, and at the fame time kept the Body open. He faid that this Medicine was much ufed, and ftrongly recommended in dropfical Cafes, by the late Dr. Brown of Invernefs.

1. The

. The Cathartics recommended in Sect. 41, not only empty the Inteffines, and caufe a Flow of Liquors to them, but also often increase the Quantity of Urine, and when they are given either at the same time or alternately with Diuretics, are observed to increase their Operation.

2. Diuretics may also be affisted by relaxing Injections thrown into the great Guts, and by keeping the Loins warm while the rest of the Body is cool.

 λ . If the Remedies mentioned in this Section do not increase the aqueous Secretions, they will be prejudicial; for by diffolving the Blood they add to the Disease; and this Excretion of Urine is of fuch Consequence in Dropsies, that it may be faid, in general, there is little Expectation of making a Cure while more Liquors are drunk than are passed off; and *Celfus* (k) observed long ago, that when the Urine is in

(k) "Si plus humoris excernitur quam affumitur, ita de mum fecundæ valetudinis fpes eft. Celf. lib. iii. cap. 21.
greater

greater Quantity than the Drink, the Phyfician may hope for Success.

43. The Skin of dropfical People is generally dry, the perfpirable Liquor being poured into the hydropic Cavities; if therefore the Excretion by the Skin be increased, a less Quantity of Fluid is conveyed into the Cavities to increase the Disease, and the Blood is freed from a Redundancy of Water. To obtain this,

a. The Method prefcribed by Celfus is certainly very rational (1): "Sweat, fays he, is to "be promoted, not only by Exercife, but like-"wife in warm Sand (m), a Bagnio or Stove and

(1) "Evocandus eft fudor non per exercitationem tan-" tum, fed etiam in arena calida, vel laconico vel clibano, " fimilibuíque aliis; maxime enim funt utiles naturales & " ficcæ fudationes." Celfus, lib. iii. cap. 21.

(m) Dampier in his Voyages relates, that being ill of a Dropfy in the Ifland of *California*, he covered himfelf all over with Sand, warmed by the Heat of the Sun, for an Hour;

" (n), and other fuch like Contrivances; for natural and dry Sweating is very uleful."

b. Friction as well as Exercife is univerfally known to promote Perfpiration.

c. So also do the Stimulants recommended in Sect. 23 β ; especially those which are composed of a subtile Oil and volatile Salt (ρ).

d. The

Hour; then he was carried to Bed and well covered with Cloaths, where he fell into a profuse Sweat, after which he recovered daily.

(n) A Patient afflicted with an Hydrops Pectoris and Afcites, was cured by fweating plentifully in a Stove prepared with Spirit of Wine, living on a fudorific Diet of Guiac and Sarfaparilla for twenty Days, and taking a hydragogue Purge every fourth Day. *River. Obf. cent.* 4. *obf.* 71. —It is probably the warm Steam in the Grotto *delli Serpi* near *Rome*, that cures Dropfies and many other Difeafes ; although the Effect is attributed to the Licking and Suction of Serpents. See the Hiftory of the Cure of a Dropfy by this Cave, *Mifcel. Curiof. a. n. c. dec.* 3. ann. 4. *obf.* 20.

(o) John Tackler, afflicted with a Dropfy, fweated profufely, and difcharged a great Quantity of Urine, by the Ufe

d. The natural Balfams act nearly in the fame Way.

e. Mercury, and feveral of its Preparations, frequently open the Pores of the Skin and promote a plentiful Diaphorefis; especially if proper Care be taken to direct their Operation this Way.

f. Antimony, and its Preparations, readily affect the Skin, and increase the cutaneous Excretions(p).

g. And

Use of Spirit of SalAmmoniac; the Swelling having subfided, the Remains thereof were carried off in a few Days by a Dose or two of a Hydragogue Purge. Binninger, cent. 1. obf. 76.—The Decoction of the Rad. Vincetoxicum (Swallow-wort) is strongly recommended as a Sudorisic in the Dropsy. Miscel. Cur. a. n. c. dec. 2. ann. 7. obs. 38.

(p) Sydenham has recommended firongly the Crocus Metallorum given by way of an Emetic in the Afcites where the Belly is large, de Hydrope.—And Dr. Poter mentions his having cured one Antony Maria of an Anafarca and Afcites, by ordering him fome of the Sulphur Metallorum with the Elixir of Vitriol. It foon gave him Relief, and within

g. And Opium, either by itfelf or differently prepared with other Medicines, produces the fame Effects (q).

b. These

within twelve Days his Belly and other fwelled Parts were much decreafed, having evacuated a Deal of Water both by the Mouth and the urinary Paffages, and in a little Time was cured. Dr. Poter gives great Praifes to this Medicine the Sulphur Metallorum, and mentions feveral other Cafes he cured by it. See Hoffman Oper. Supplem. p. 1. cent. 1. obf. 2. 97. cent. 2. obf. 12.75. cent. 3. obf. 36. 37.97.

(q) A Woman gave to her Hufband labouring under a Dropfy fifteen or twenty Grains of Laudanum ; he broke out into a profuse Sweat, passed a great Quantity of Urine, and was cured. Hift. de l'Acad. des Sciences, 1703 .- A Gentleman who was much troubled with nocturnal Pains from an ill-cured Lues Venerea, for which he would take nothing but a little Laudanum to eafe his Pain, at length fell into an universal Dropsy; and being averse to Medicines, he fent for Dr. Willis, to know if he might take Laudanum in this Diftemper, fo as to keep him eafy : the Doctor confented to it, after giving him proper Cautions, and went away, not expecting he would live many Days. The Patient immediately took a large Dofe of Laudanum, which he continued to increase every Day till the Quantity was almost incredible. In a Month's Time all his dropfical Swellinge

b. These two last named Medicines, the Antimony and Opium, have often a better Effect

Swellings were gone, his nocturnal Pains left him, he had a good Appetite, and was able to walk abroad. The Opium fweated him plentifully every Night, and made him pafs a large Quantity of Urine. Willis Pharm. Ration. p. 1. fect. 7. cap. 1.

The following Cafe I had from Dr. Knight. A middleaged Man, after a quartan Ague, was taken with an Afcites, and being fwelled all over was received into the Westminster Infirmary. A Number of Purgative and other Medicines were given him, which did not at all relieve him ; and there seemed to be little Hope of his Recovery. Dr. Knight ordered him a Dole of Dover's Opiate Powder, which fweated him plentifully, and relieved him greatly; he continued the Ufe of this Medicine for two Months with the fame Succefs, his Swelling all the while diminishing confiderably; but at the End of this Period the Powder had no more Effect, and his Difeafe feemed to be at a Stand. The Doctor then ordered him to take a Purgative alternately with the Powder ; which Courfe relieved him also but little till he was bandaged pretty tightly all over : the Medicines then began to have a good Effect; and by continuing this Courfe, and drawing the Bandages tighter as the Water was evacuated, a compleat Cure was made in a fhort Time. The Doctor faw the Man four or five Months afterwards in good Health, and believes he has had no Relapfe.

when

when mixed, than when either of them is taken feparately, especially the antimonial Wine and Tincture of Opium (r).

i. That thefe diaphoretic or fudorific Medicines may have a proper Effect, their Operation must be affisted, not only by excluding the cold Air, but also by keeping the Surface of the Body warm with thicker Garments, and a greater Quantity of Bed Cloaths than usual, as

(r) The antimonial Wine mixed with Tincture of Opium is now a Medicine much used in St. George's Hofpital : I have often given it as a Sudorific, which Intention it answers effectually, and does great Service in rheumatic Cafes .---To a Woman about forty, afflicted with a Dropfy of the incyfted Kind for feveral Years, which had diftended her Belly to an enormous Size, and feemed to proceed from a Schirrous Ovarium, I ordered thirty or forty Drops of Laudanum in an Ounce of Pepper-Mint Water, first with half a Drachm of the Lixivium of Tartar, and about two Months afterwards, when the Medicine feemed not to produce its usual Effect, with fifty Drops of the antimonial Wine : fhe took this Medicine as oft as fhe found her Belly begin to grow larger, and was always relieved, the Perfpiration and Difcharge of Urine being greatly increafed by its Ufe.

well

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well as with warm Drink, and fomenting the Skin with Steams of hot Water, or rather with the Vapour of burning Spirits of Wine; or by rubbing the Body with warm Flannel well impregnated with aromatic Fumes, when an increafed Perfpiration without Sweat is intended.

44. Although a Salivation raifed by Mercury greatly weakens the Patient, and diffolves the Humours into an aqueous Mafs, yet it is faid to have cured a Dropfy (s): when there-

(s) A Man between twenty-five and thirty Years of Age was attacked with an Afcites and Anafarca, and finding no Relief from any other Means ufed for his Recovery, was cured by being tapped and falivated. Recourfe was had to the Salivation, becaufe neither the Puncture, nor any Medicines which had been given him, removed the fubcutaneous Swellings. Du Verney, Memoir. de l'Acad des Sciences, 1703.—A Woman labouring under a Dropfy was cured by an accidental Salivation, raifed by Mercury mixed with purging Pills, which continued fourteen Days. Mifcel. Curiof. dec. 2. ann. 4. obf. 36.—An hydropic Woman was greatly affifted in her Cure by a Salivation. Act. Phyf. Med. a. n. c. vol. v. obf. 3.

fore

fore this Distemper has baffled other Remedies, Salivation may be tried.

45. In Dropfies every Difcharge of watery Fluids is not to be efteemed beneficial; for if thefe are only feparated from the Blood without any Diminution of the hydropic Swelling, which alone is the fure Sign that the defired Abforption has been made, the Patient's Strength is exhausted, and his Blood diffolved; fo that the Cure of the Difease is fo far from being advanced by fuch Excretions, that, on the contrary, the Case must be rendered worfe.

46. In the few Cafes where there are other natural Paffages than those now treated of to be opened, it is plain that the Methods of Cure must be varied according to each particular Case; which shall be considered in the second Part of this Essay.

47. The like Variety of Management being required in different Dropfies where artificial G Outlets

Outlets for the Water are to be made, I must not at prefent enter into any Detail concerning them.

48. When hydropic Water is let out either by the natural or artificial Paffages, efpecially if it be done fuddenly, the Preffure of the Water on the Sides of the Cavity in which it was contained, and on the neighbouring Organs, is taken off; wherefore the Liquors from the Heart finding lefs Refiftance here to their Flow than in other Parts, will overftretch all thefe Veffels where the Preffure is diminifhed, and produce Inflammation or Gangrene in the fmaller Veffels (t), and the Effufion of Liquors where they have any Apertures (u). At the fame

(t) Histories of Inflammations or Gangrenes coming foon on the Bowels, after performing the Paracentes incautiously, may be read in *Miscel. Cur. a. n. c. dec. 2. ann. 6. obf.* 152.—*Philof. Transf. No. 223.*—Bonet. Sepulch. Anat. lib. iii. *fect. 21.*

(u) More Water is collected in the Abdomen in one Week after tapping than fix before it.—Hydatides opened often

fame Time the other Organs of the Body being deprived of their due Proportion of Liquors will become unfit for performing aright their Functions; and hence a Difficulty in Breathing, Weaknefs and Faintnefs, Lofs of Appetite, bad Digeftion, and fuch other Symptoms, are the common Confequences of a fudden Evacuation of hydropic Waters from large Cavities(w). 49. Thefe

often discharge as much in a Day or two, as was formerly collected in them during Months or Years.—The Water which was clear and limpid at a first Tapping, is frequently bloody at a second.

(w) People labouring under the Dropfy often die fuddenly when they feem to be in a fair Way of Recovery, and the dropfical Swellings to diminifh daily; nay, often after a feeming Cure. Many Infrances of which we meet with in St. George's, and other large Hofpitals. I have had the Bodies, of feverals who died in this Way, opened.

In fome no Water was found in the Cavities, nor any visible Fault in any of the Viscera, or other Organs, which we could affign for the Cause of Death; and we could only Conjecture, that either the Water had fo macerated and relaxed the Fibres, as to render them unfit to perform longer the vital Functions, or that the fudden Evacuation of the Water had occasioned the Death of the Patient.

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49. These bad Consequences of taking away hydropic Waters are to be prevented, 1. By

In feveral I have feen Water in the Cavities of the Thorax, and Signs of Obstructions of the Lungs-In others Faults of the other Viscera.

In fome I have observed large Polypous Concretions in the Heart, and large Blood-Veffels, which feemed to have been recently formed, and which, in fome Cafes, I have conjectured to have been the Caufe of the fudden Death of the Patient .- A Cafe of this Kind occurred lately, William Ritching, twenty-two Years of Age, whole Father and two Brothers had died of the Dropfy, was admitted into St. George's Hospital the 14th of November 1764, for an univerfal Dropfy. By having Scarifications made in his Legs, and the Use of diuretic and purgative Medicines, the Swellings gradually decreafed, and he feemed to be in a fair Way of Recovery, when, on the 7th of December, he died fuddenly, at Nine o'Clock in the Morning, after a calm Night's Sleep, and having eat fome Water-Gruel about half an Hour before .- His Body was opened next Day: The Brain was found and firm, and there was no more Water than common in its Ventricles, or on its Surface. The abdominal Vifcera were all found, and but a very finall Quantity of Water in the Cavity .- The right Cavity of the Thorax contained above a Quart of Water, but did not

By letting out the Water flowly, and in fmall Quantities at a Time, that the Prefiore may be taken off very gradually.—2. By making as great a Prefiure on the Part from which the Water is difcharged as was occafioned by the Fluid while it remained within the Body.—3. By applying fome of the ftrengthening Medicines taken Notice of in Sect. 23.

INDICATION III.

50. Tho' the two first Indications may have been fuccessfully purfued, fo as to have drained off all the extravasfated Water, yet the third Indication of preventing a Relapse is not to be

not appear fo full as to have been the Caufe of Death. The Lungs adhered a little to the Pleura in this Side, and in one Part was full of Blood, and about a fquare Inch was black, and feemed concreted almost to a folid Mass, tho' when cut out of the Body it swam in Water. There was but a small Quantity of Water in the left Cavity. The Heart was very large, and both Ventricles full of yellow polypous Concretions, which extended into the large Vessels, and which, tho' they were pretty firm, feemed to, have the Appearance of having been recently formed.

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forgot ;

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forgot; for there are few Diseases into which Patients are so liable to Relapse as the Dropsy. Whoever therefore has once had a Dropsy must be particularly on his Guard against a Return of it.

51. Perfons in this Condition ought to perfift long in the Ufe of Corroborants, and fuch other Medicines as leffen the Difeafe, gradually forbearing Evacuations, and increafing the Dofes of the firengthening Remedies, till the natural Tone of all the Organs is reftored; then the cold Bath, which was faid to be improper while the Dropfy continued, may be fuccefsfully employed for bracing the Solids fufficiently.

It will be readily underftood, that in the Dropfy from Rigidity, (Sect. 28.) where a peculiar Method was proposed, there is an Exception to the Rule above mentioned.

52. Befides the general Method now propofed, fpecial Regard is to be had, 1. To the original

original Caufe of the Dropfy; the Increase or Return of which is to be guarded against..... 2. To the Part more immediately affected; for the Sides of the Cavity ought to be compressed, supported, and strengthened, till their Fibres and Vessels have recovered their proper Strength and Tone.

53. If the morbid Cavity can be deflroyed or filled up, without Danger or very great Inconvenience to the Patient, it is advifeable to do it, as in many Cafes there is no other Method of preventing a freen Collection of Water.

54. A particular Recital of those Symptoms that frequently attend Dropsies, or might be brought on by them, but are not necessary Consequences, or constant Concomitants of this Disease, are purposely omitted, as they would lead us into too large a Field of Inquiry foreign to the present Subject.

55. In the preceding Part of this Effay it was hinted, that the general Account of this Difeafe was not fufficient to direct us to the G_4 Cure

Cure of its different Species; we shall therefore now proceed to a more particular Description of the different Kinds of Dropsies, which will be the more clearly comprehended, if the general Doctrine already proposed be kept in View.

PART

PART II.

(89)

Of the different Kinds of DROPSIES.

56. THE Waters of Dropfies are contained either in Cavities which have a free Communication with others, or in fuch as have no direct or natural Outlet. Hence the Division into diffused and incysted Dropfies.

CHAP. I.

Of the DIFFUSED DROPSY.

The Seat of the Difeafe.

57. The Principal, if not the only, Seat of the diffufed Dropfy, is that cellular membranous Substance

Substance which is to be found every where under the Skin, about the Muscles, Blood-Vessels, Nerves, Bowels, and which, in short, feems to ferve as a general connecting Medium to all the Parts of the Body.

58. This cellular Subftance confifts of extremely fmall, pellucid, ductile and elaftic Membranes; in fome Places it is denfe, and in others loofe, and in fome Parts it is of a fine, in others of a coarfe Texture : and tho' we cannot demonstrate either Veffels or Nerves proper to its Lamellæ, neverthelefs innumerable large Veffels, both arterial and venous, as well as fmaller exhaling and abforbing Tubes, with Abundance of Nerves, are difperfed through every Part of it. Between thefe Membranes are Spaces of an irregular Figure, and of very different Sizes, opening into each other (x), and commonly called Cells; into thefe

(x) Do all the Cells of the Tunica Cellulofa communicate with one another univerfally through the human Body, and is the Water of anafarcous Dropfies equally difperfed through

these the Arteries are constantly pouring Liquors, which are again reassured into the Blood by the Extremities of absorbent Veins.

59. Many

through them ? Or are there two Sorts of cellular Membranes, the one which may be called Reticular, into which the mere watery Liquors are fecreted, and in which dropfical Water is lodged; the other, which may be called Adepofe, into which the Fat is depofited, and into which the Water of Dropfies never enters ?

Till we know more of the intimate Structure of animal Bodies, we cannot determine these Questions with Certainty.

The first is the most general received Opinion, nor are the Arguments of our not being able to squeeze the Fat from one Part to another, or of its not falling down into particular Parts, sufficient Proof of the contrary; for we are not to expect that where there is a thick dense cellular Membrane, and small Cells filled with a gross Fat, and the Communications between these Cells but small, that we can be able by external Preffure to squeeze this Fat from one Cell to another, in the same Manner as we would do Water, liquid Oil, Air, or any other such Fluid, thrown into the most loose Part of the cellular Membranes; far less are we to imagine that the gross Oil, after it has acquired the Confistence of Fat, will fall down by its own Weight into the cellular Substance of those Parts where Nature

Many of these Cells we find filled with a gross Fat, others with a fine Oil; in others we observe a viscid, in others only a fine watery Liquor: Nature having furnished every Part

Nature has intended that no Fat fhould be lodged .- And although it be true, that in many Parts of the human Body there feem to be particular Organs fitted for fecreting and preparing the gross Oil called Fat, whether Glands according to Perrault, Collins, and others, or Adepofe Sacculi according to Morgagni, or Veffels of certain Diameters according to Ruysch and Haller; and that in other Parts of the Body, fuch as the Eye-Lids, Scrotum, Sc. there feems to be no fuch particular Structure, yet we cannot conclude from thence that the Water of Dropfics is never lodged in the fame Cells with the Fat; or affirm with Certainty, that there is no univerfal Communication between the Cells of the Tunica Cellulofa. Water or Air drove forcibly into the cellular Membranes feems to fill all the empty Cells, and dropfical Diforders confume the Fat in the cellular Membranes, and the Marrow in the Bones; and these Cavities are often found after Death full of a watery instead of an oily Liquor.

Whoever would know more of the Structure and Use of the cellular Membrane, and the different Opinions that have been proposed concerning it, may confult the ingenious Dr. Haller's Elementa Physiolog. lib. i. feet. 2.

of

of the animal Body with Organs for preparing fuch Liquors as were most fit for its Use.

SYMPTOMS.

60. The Description of a Dropfy already given in Sect. 4.—10. answers to the diffused ones, allowing for the Appearances arising from the Nature of the cellular Membranes in which the Water is contained : Thus,

a. The very fmall Quantity of Water contained in each Cell can fcarce fluctuate fo much under the Finger as to imprefs it with the Senfe of an undulatory Motion; but by Preffure the Water may be fqueezed into the neighbouring Cells: by thefe Means a fmall Hollow or Pit is made, which is flowly and gradually filled up again when the Preffure is removed.

b. The Water by its Weight defcends thro' thefe Cells towards the lower Parts, which therefore are generally more fwelled and diftended than those above.

c. The

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c. The Symptoms of this Difeafe, in moft of the deep-feated internal Organs, not being obfervable either by the Eye or the Finger, we can only judge fuch Parts to be affected by the Conflictution of the Patient, and the Injuries which the different Functions may have fuftained.

CAUSES and PROGNOSTIC.

61. The Caufes of the diffused Dropfy are enumerated in Sect. 11.—18. and the Prognostic is to be made according to the Circumstances hinted in Sect. 19.

CURE.

62. Nor is any Circumftance to be changed in the Indications of Cure related in Sect. 20. But in the Therapeutic Part it may be worth while to obferve, that the Abforption from the cellular Membrane is more eafily performed than from any of the Cyfts, becaufe its Veins are larger and more numerous, and the Sides of

of its Cells have generally lefs Preffure on them than the Cyfts have; hence, *cæteris paribus*, the diffufed Dropfy yields fooner to Medicines than the incyfted.

Its different SPECIES.

ANASARCA.

63. The most frequent and manifest Kind of the diffused Dropsy is the subcutaneous, called by the Latins *intercus*, and by the Greeks avagagaa, Or reunopreguatia (y).

64. When this Difease depends on the Caufes mentioned in Sect. 12.—15. the Feet begin first to fwell, especially in the Evening,

(y) Arctaus makes a Difference between the Leucophlegmatia and Anafarca; but we use the Words Anafarca and Leucophlegmatia indifferently, for they seem to be but different Stages of the same Disease. He says, that when the Body is swelled with a thick white Pituit, the Disease ought to be named Phlegmatia, but when the Flesh is disfolved into a bloody thin watery Humour, it ought then to be called Anafarca. Lib. ii, cap. 1.

after

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after Exercife, and when the Patient has flood or fat long; which Swelling rifes frequently to the Thighs .- By lying in Bed the Swelling becomes lefs, or even almost imperceptible .---The Reafon of these Appearances may be eafily understood when one confiders, what was before hinted at, that as the Cells in which this watery Fluid is deposited, communicate with each other, fo of Courfe this Fluid defcends by its own Weight to the inferior Parts. To this if we add, that in an erect Pofture the high. Column of Blood contained in the Aorta, and inferior Vena Cava, preffes upon the Veffels of the lower Parts, and makes the Return of the Blood from thence to the Heart more difficult : and that under fuch Circumstances as commonly produce the Anafarca the vafcular Syftem is greatly relaxed; and that, by these Means, the Power failing which should promote the Afcent of the Blood from the lower Parts, it moves with more Difficulty, and the thinner Parts are by this additional Delay forced into the fmaller Ramifications of the Arteries, which empty

empty their Contents into the cellular Subfrance. But when a Perfon is laid horizontally, the Height of the Column of Blood in the returning Veins is fhortened; the Blood flows with lefs Difficulty, and the Preffure being removed, the Power of Abforption is reftored, whilft a lefs Quantity of Moifture is forced through the exhaling Veffels(z), and therefore the Swellings decrease.

65. In the Progress of this Disease the Swelling rises to the Hips, Loins, and Belly, extends itself to the Thorax, and at length to the Hands and Face; so that the whole Body is affected by it, the most depending Parts being always the most enlarged.

66. An Obstacle of any Kind being once made to the Return of the Blood by the Veins

(z) If Hoffman's Observation of tall People being more fubject to this Kind of Dropsy than those of a low Stature, be true, it is a Kind of Confirmation of the Doctrine here laid down. De Hydrope, cap. 20.

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from

from any Part of the Body, that Part foon becomes anafarcous, or, as it is most commonly termed, œdematous; and the dropfical Swelling extends itself gradually in Proportion to the obstructing Cause, tho' all the Organs of the Body are in a natural found State; thus an anafarcous Swelling may be brought on the Limbs by compressing the inferior Vena Cava or the Iliac Veins; or on the Arms or Head by compressing the fuperior Cava. A Schirrus in the Arm-Pit often Causes the Arm to appear extremely œdematous.

67. Watery Tumors may be produced whereever there is a preternatural Laxity of the Solids, or when the Circulation of the Blood is obftructed in the capillary Arteries : fuch Tumors therefore are often the Confequences of Palfy (a), Bruifes, Sprains; but the Swellings from Eryfipelas, the Poifon of the Viper, Bites of Infects, &c. though they feem to partake

(a) See a Dropfy from Palfy, Hoffman Supplem. cent. 1. abf. 97.

of

of the ædematous Nature, yet they more properly belong to another Class of Diseases, than those treated of here.

68. The Head and Scrotum are the only two Parts of the Body on which, when diffended with the fubcutaneous Dropfy, Authors have been pleafed to beftow particular Names. To the former they have given the Name of Hydrocephalus, and to the latter Hydrocele. But in fpeaking of thefe two Sorts of Dropfies it is always right to add the Epithets of fubcutaneous or external, to diffinguifh them from the other Kinds of Dropfy to which the Head and Scrotum are fubject, and of which there will be Occafion to treat in the following Part of this Effay.

69. As the Water of a fubcutaneous Dropfy ftretches the Skin, preffes on the Blood Veffels, Nerves, Muscles, &c. and relaxes all the Parts it touches; the Heat of the Body, the contractile Power of the Muscles, and the Tone of the Veffels, are all thereby confiderably di-H 2 minished;

minished; and the Skin becomes fo infensible, that it has been fometimes burnt without the Knowledge of the Patient (c), whose own Weight at last becomes a Burthen greater than he can support.—The Vessels under the Skin being by this Pressure fo straitened as to be incapable of transmitting their Liquors to the Heart, discharge them into improper Places; hence are frequently produced the red Spots and Blotches observed on the Skins of hydropic People.—The diffused Water too, by pressing universally on the Vessels, increases the Resistances to the Force of the Heart, which of Con-

(c) A labouring Man who feemed to be almost drowned by Water under the Skin, having his Thighs as thick as an ordinary Man's Body, being very cold in the Winter, lay down by the Fire to warm himfelf, and, by Accident, putting his Foot against the hot Coals, tho' he felt no Pain, was fo much burned that the Water was totally evacuated in three Days Time thro' the Aperture made by this Accident; and he was fo much reduced in Size that his Skin hung loofe about him : but he recovered his Health by what at first feemed to be a Kind of Misfortune. Boerbaav. Comment. in feet. 416. Institut. Med.

fequence

fequence becomes unequal to its Tafk of propelling the Blood thro' the Body; and therefore the Blood is collected moftly in the large Veffels about the Heart and in the Lungs, where it caufes Anxiety, fhort and difficult Breathing, especially when, from a little Motion or Exercife, the fmall Portion which finds a Paffage thro' the other Parts of the Body, is forced to return to the Heart fornewhat more quickly than ordinary .-- Sometimes the Water diftends and dilates the Pores of the Skin fo much, that thro' them it makes its Way out of the Body (d). But if it paffes thro' the Veffels of the Skin only, and not thro' the Cuticle, it raifes Blifters, which being broke the Waters run out plentifully (e). -When the Circulation is wholly flopped in any Part, by the Preffure of the Water, a Mortification enfues. Or, when the extravafated Liquors become acrid or putrid, they erode the

(d) & (e) I have feen feveral Inftances of both; there are remarkable Examples of the former in *Miscel. Cur. a. n. c. dec.* 2. *ann.* 9. *obs.* 136.—*Ibid. an.* 3. *obs.* 136. and of the latter *ibid. dec.* 2. *ann.* 10. *obs.* 34.

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Fibres to which they are contiguous; and if any Part of this acrimonious Fluid be taken up by the abforbent Veffels and mixed with the circulating Fluids, it caufes Thirst, Heat, Fevers, and their numerous Consequences.

70. A general Anafarca never is without a Collection of Water in the cellular Membranes furrounding the Vifcera; this must occasion fome Diforder in their Functions, from whence various other Symptoms arife, which shall be enumerated when we come to confider the different Sorts of internal diffused Dropfies.

71. As every Kind of Dropfy has fomething peculiar to itfelf, and probably yields more to fome particular Clafsof Medicines than to others, in treating of the Management of each, those Medicines shall be more expressly confidered whose Effect may be generally depended on, in the Species of Dropfy then treated of, whilst the others are only casually mentioned.

72. 0.

72. a. Those corroborating or strengthening Remedies that increase Absorption when externally applied do more Service in the subcutaneous Dropsy than in any other Kind, because they can be applied almost to the Seat of the Disease; and therefore Friction, the stimulating Fumes (f), Aromatic (g) and spirituous Medicines

(f) R. Pulv. benzoin. q. f. vel R. thur. fuccin. ana p. ae. misce, siat pulvis; paulatim carbonibus incensis, intra caminum injiciatur, et sumus excipiatur panno laneo, donec bene calescat pannus, cuti mane et vespere affricandus.

(g) R. Pulv. fubt. fummit. abfinth. unc. iv. cret alb. unc. viii. mifce. Pulvere hocce afpergatur pannus, quo circumligandae funt partes hydropicae, h. s.—vel R. pulv. fubtil. cinamom drach. i fs. nucis moschat. drach. ii. camphorae scrup. ii. misce. Admisceatur bicce pulvis cum gossipio, inferendo inter duplicatum linteum, ex quo conficiantur tibialia, vel manicae, funiculis adstringendae.

(b) R. Spirit. vini camphorat. unc.iv. spirit. volat. aromat. drach. i. misce. Affricetur, q. s. parti tumidae bis in die.

The following Cafe was fent by the Patient's Daughter to a Friend, from whom I had it.

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cines (h), or other external Remedies, are frequently found to have a good Effect, and ought to be affiduoufly employed.

b. Bandages are extremely proper and beneficial in affifting the Tone of the Parts, and for preventing the Influx of Fluids into the cellular Substance, and expelling Water from them, and in promoting the Cure. However, Care ought to be taken not to apply them too

A Gentleman of Fortune near eighty Years of Age, after two fevere Fits of Illness, fell into a Dropfy, and swelled all over ; he was affhmatic, low and weak, and thought to be a dying, when he was advifed to have Cabbage or Colewort Leaves applied to his Legs. The hard Stalks were cut away, and the Coleworts were rolled with a Rolling-Pin to make them foft, and applied fresh twice a Day-By Degrees they began to draw the Water, and to discharge it from his Legs, and his Breathing became eafier .-- The Discharge was computed to be about a Quart in the Day; it at first kept him low, but as it lesiened he recovered his Strength, and his Body had leffened 13 Inches, and he was able to lie down in Bed, which he had not been able to do for fome Years before; and in May 1764, he was able to walk with a Stick, to dine at Table with his Family, and to go out an airing in a Coach. In November he made a Journey of near two hundred Miles, and was in good Health.

tight,

tight, left we ftop the free Circulation of the Blood in the Parts lower than where the Bandages are applied, and occafion an Increase of the dropfical Swellings of these Organs, or give Rife to dangerous Inflammations and Obstructions.

c. Diaphoretics and Sudorifics act chiefly on the Veffels of the Skin, and frequently produce very good Effects; whether Heat alone, or Stimulants (i), or antimonial Preparations (k), or Mercurials (l), or Opium (m), or other

(i) R. Spirit. corn. cerv. unc. dimid. cujus aeger fudationi accinctus hauriat gutt. lxxx. in quovis liquore vinofo tepido, et gutt. xx. omni postea quadrante horae.—vel R. Julep. e camphor. lib. fs. tinct. serpent. uncl. i. misce. Propinanda est primo uncia una, et postea unc. dimid. omni semihora ad tres vel quatuor vices.—vel R. Spirit. minder. unc. viii. sal. vol. c. c. gr.xl. syrup bals. Tolutan. unc. ii. misce: hauriat unc. ii. statim cum in lectum se receperit, et unciam unam omni dein hora dimidia.

(k) R. Vin. antimon. unc. dimid. capiat gutt. xl. in feri lactis vinof. tepid. unc. ii. et reit. dosis omni hora si ferat ventriculus. vel R. Kerm. mineral. gr. ii. theriac. andromach. drach. i. misce pro dosi.—vel R. Antimon. calcinat. ad albedinem cum aequali copis

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other Medicines, are employed for this Purpofe (n).

73. Either

copia rasur. corn. cerv. gr. xxx. cap. pro dost.-vel R. Vin. antimon. gutt. xl. tinot. thebaic. gutt. xxx. cap. dos. hujusinodi 8va quaque hora, ex quovis liquore tepido,

(1) R. Furpeth. mineral. gr. i. mithrid. fcrup. i. ol. flil. menth. gutt. iii. mifce pro dofi.—vel R. Mercur. dulc. gr. iv. camphor. gr. vi. opii gr. ii. mifce & cap. fudori accinElus.

(m) R. Pulv. caftor. gr. xv. fal. fuccin. gr. v. fal. vol. c. c. gr. vi. opii crud. gr. ii. fyrup. e cortice aurant. q. s. ut fiat bolus b. s. devorandus.—vel R. Tartar. vitriol. fal. nitri, ana scrup. iv. funde in crucibulo, pulveriz. et adde pulv. rad. ipecacoan. opii fingul. scrup. i. ol. stil. menthae gutt. ii. misce. Doss est a scrup. i. ad gr. xl. This is Dover's Powder, formerly mentioned.

** A Soldier of the fecond Regiment of Foot-Guards, who had undergone repeated Salivations for venereal Complaints, catched Cold, and fwelled all over in a fhort Time after. He had a Difficulty of Breathing, a Paucity of Urine, and the other Symptoms of a Dropfy. The Surgeon of the Regiment at first ordered him hydragogue and diuretic Medicines, which gave no Relief. He then brought him to the Phyfician, to whom I am obliged for this, as well as for feveral other Cafes taken Notice of in this third Edition. As the Man was young, and his Pulfe full, the Doctor ordered him to be blooded, and to have fome

73. Either at the fame Time, or alternately with these Remedies, the Corroborants, Diuretics,

fome Dofes of Dover's purging Electuary, which had little. Effect. He then ordered him the following Medicine, to be taken by Spoonfuls till it both vomited and purged him : R. Syrup e spina cervin. unc. ii. tartar emetici gr. x. He took the whole before it produced any Effect; but it then operated very much both as an Emetic and Purge, and relieved the Breathing greatly. Next Morning he had a Scruple of Dover's fwcating Powder, which fweated him freely, and gave Relief. The third Day he had the purging Medicine as before, but the Half operated freely. The fourth Day he had half a Drachm of the fweating Powder, which he took divided into two Dofes, at half an Hour's Interval between each, and fweated as before. After taking these Medicines three Times each, he was observed to be better. He then continued to take these Medicines alternately for fix Weeks, but intermitted two Days between each Operation. On the intermediate Days he was allowed a Dram of Gin, which he observed to increase his Discharge by Urine. It is to be remarked, that when he began to take the Syrup of Buckthorn and Tartar Emctic at longer Intervals, he was only vomited, and without drinking threw up great Quantities of green-coloured Water. By this Courfe the Swellings were all removed, and the Cure was completed by his taking forty Drops of the Elixir Vitrioli in Bitters to reftore his Strength. In

retics, and Purgatives, recommended in the first Part of this Essay, ought to be prescribed (0).

74. Al-

In two Months he feemed recovered, but, on catching Cold about ten Months after, was threatened with a Relapfe, which however was prevented by two Dofes of the emetic Cathartic. He lived three or four Years after this, and then died of a Fever.

(n) Hot Bricks applied to the Feet fweated them, and cured cedematous Legs remaining after an Ague. Miscel. Cur. a. n. c. dec. 2. an. 8. obs. 141.—The Fumes of Gentian, Juniper Berries, and Vinegar, cured a Dropsy. Ibid. dec. 3. an. 9 5 10. obs. 24.—An hydropic Child was cured by fweating. Ibid. obs. 197.

(o) Since the first Part of this Effay was printed I received from Mr. Hutchefon, Practitioner in Physic at Dalkeith near to Edinburgh, an Account of ten dropfical Cafes in which he gave Dr. Stork's Oxymel Golchici.

Two anafarcous Cafes of fome flanding, and one recent edematous Swelling in a Child, were perfectly cured by the Ufe of this Medicine.

In another analarcous Cale it increased the Secretion by Urine, but did not leffen the dropfical Swelling. In three others it had no fenfible Effect.

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74. Although the Remedies hitherto propofed may have been duly administered, yet the

It increafed the Quantity of Urine, and cured a Girl of twelve Years of Age, whofe Belly was fo much fwelled that Part of the Water had ouzed out at the Navel.—It increafed the Quantity of Urine in another afcitical Cafe, and it had no Effect in a third, where the Water was carried off afterwards by the Patient's taking five Grains of Mercur. Dulcis at Night, and purging it off next Morning with a Dofe of Ward's Dropfy Powder.

Mr. Hutchefon fays none of his Patients used any other Medicine when taking the Colchicum; and that it proved a very ftrong Diuretic with the two first Patients, who took it the length of ten Tea Spoonfulls in the Day; with the others it operated but flowly.

In the Month of June 1755, Robert Damyerin, a ftrong young Man, was taken into St. George's Holpital for an Anafarca by Dr. Dawson, who ordered him dry Diet, a Purge of Jalap and Nitre twice a-Week, and to take in the intermediate Days the Squill Pills and faline Draughts. By the Use of these Medicines his Swellings were all carried off in about five Weeks; he made Water freely, and sweated often; and afterwards, by the Help of some ftrengthening Medicines, the Cure was completed.—John Mackan, a Man thirty Years of Age, was admitted into St.

the Anafarca may increase, and the extravasated Water remain in the cellular Substance unless

St. George's Hofpital the 14th of February 1759 for anafarcous Swellings of his Legs and Thighs, which had come fome Months before from drinking fmall Beer while he was very hot. His Pulle was quick, his Tongue white, and he made but a fmall Quantity of high-coloured Urine. He was ordered the faline Draughts three Times a-Day, and a Dofe of Jalap and Nitre twice a-Week. This Courfe, in about feven Days, reftored the natural Secretion by Urine, and removed his dropfical Swelling; and he was difcharged the Hofpital, feemingly in good Health, the 25th of the fame Month.

*** Some Years ago a Phyfician of Eminence was called to a Lady forty-two Years of Age, who had been attacked with analarcous Swellings of her Belly and Legs, a Paucity of Urine, and other Symptoms of a Dropfy, after a Milcarriage. The Doctor at first ordered her to take two Ounces of an Infusion of Millipedes Morning and Evening, and a Dose of the following Physic every other Day: R. Pulv. rad. jelap. gr. xv. nitri gr. viii. cum rad. fcill. recent. gr. x. vel gr. xv. pro re nata; while the took for her common Drink a Solution of half an Ounce of the Broom-Ashes in a Quart of Water. On beginning this Course the made Water freely, the Physic both vomited and purged her, and the Swellings decreased daily. After taking five Doses of the Physic, the had the following Electuary and Julep: R.

OF THE DROPSY. III

lefs drained off by fome artificial Opening made in the most depending Part.

#. When

R. Conferv. abfynth. maritim. fefcunciam specier. aromatic. chalyb. cum fulphur. præparat. singulorum drachmam unam syrup e cortice aurantiorum q. f. cap. molem n. m. bis die superbibendo uncias duas julep. sequentis. R Aq. sontan. aq. cinam. simp. singulorum uncias ii. tinct. styptic Helvet. uncias iv. By using these Medicines, and taking occasionally a Dose of her Physic, she got well.

. The fame Gentleman, in the Year 1754, attended an Officer of Diftinction who was ill of an Anafarca, and who took Variety of Medicines without receiving much Benefit, till the Doctor ordered his Legs to be punctured, and him to have the following Draughts twice a-Day: R. Aq. cort. aurant. fimp. fescunciam aq. juniper. composit. drachm. iii. confect. cardiac. drachmam dimidiam, fal. fuccin. gr. x. fyrup. croci scrupulos ii. misce pro baustu. The Punctures discharged a great deal of Water, and the Draughts proved powerfully diuretic, and removed all his dropfical Complaints. He enjoyed a pretty good State of Health for near eighteen Months after this, only he had once a violent Hæmorrhage at the Nofe, which was flopt by the Ufe of Aftringents; and at another Time a Pain in his Foot, which was judged to be gouty, but which he of himfelf repelled by the Application of Poultices. He died fuddenly on the 31ft of March 1757 .- On opening his Body, there was more than the common Quantity of Blood in the Veffels. The Lungs were found, and there was no Water

a. When the Cuticle is raifed by a Veficatory, large Quantities of Water are fometimes

ter in the Cavity of the Thorax. The Heart was in its natural Situation. The Pericardium had a good deal of Fat about it, and contained about the usual Quantity of Serum. The Heart was of a large Size, its Apex was grown to the Pericardium, and at that Part its Subftance had loft its muscular Texture, and had become thin and compact, almost like a Membrane. In the right Auricle and Ventricle there was fome coagulated Blood, but no Polypus; though in the left Ventricle, contrary to what ufually occurs, there was a firm Polypus, but fmall, not exceeding the Size of a Coat-Button, placed just in the inner Side of the Apex, which feemed to have been formed by the Blood, which conftantly flagnated in that Part of the Cavity which could not be contracted from the Fault of the Structure just now mentioned. The Valves of the Heart were in good Order ; the right Ventricle feemed to be entire ; but befides the Concretion of the Apex, and the Thinnefs of that Part, fome part of the Sides of the leftVentricle near the Apex, and part of the Septum, were of a whitifh Colour, and of a callous Hardnefs .- The Liver was found, but adhered to the Diaphragm, and the Gall Bladder was of double the natural Size, and contained a vifcid Bile and three Calculi, one of which was large. The other Vifcera were in a natural State.

poured

poured out thro' the Skin (p); but if its Surface is too much exposed it is liable to gangrene;

(p) I have frequently ordered Blifters to be applied to the Legs, or Punctures to be made, in Cafes where anafarcous Swellings had come after Fevers, Fluxes, and Agues, and generally with good Effect, where the Strength was not already too much exhaufted, nor the Dropfy complicated with other Diforders; but when Patients are very weak, or have a hectic Fever or Purging, then often the Difcharge exhaufts the Strength, and a Gangrene and Death are the Confequences. The Punetures are greatly preferable to Blifters, not being near fo liable to be attended with troublefome Inflammations.

We find the Cafe of a Patient cured by Veficatories, applied to many different Parts of the Body, in *River*. Obf. commun. a Jacoz. obf. 21.—In the Year 1747 I faw a young Man labouring under an Anafarca, from whom all the Water was drained off by Bliffers applied to his Legs, but his Legs mortifying he died.—See fuch another Cafe told by Gul. Fabric. Hildan. cent. 1. obf. 49.

** In January 1763, a Phyfician was called to a young Man, aged thirty-one, who, on catching Cold after being cured of a Venereal Complaint, had fallen into an univerfal Dropfy, attended with a Paucity of Urine, and its other Symptoms. He was fo low that the Doctor was afraid to give him ftrong purgative Medicines, and therefore at firft attempted the Cure by Diuretics. He had the Balfam Co-

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paivi

grene; fo that other Expedients ought to be preferred to this Method.

The

paivi with Lixivium Tartari; then the Oleum Juniperi by Drops, Draughts with Sal Succini and Confectio Cardiaca fucceffively one after another, but without finding Relief: Being reduced low, and the Swelling increafed much, the Doctor ordered small Punctures to be made first in one Leg, and then in the other, at the fame time that he prefcribed him the following Draughts. R. Aq. Alexet. fimp. fefcunciam aq. nucis moschat. drachmas ii. sal succin. gr. x. sal. vol. c. cervi gr. vi. vel. q. f. ad faturationem, fyrup. balfami tolut. drachm. i. M. fiat bauftus fumendus ter die. The Punctures discharged a great deal of Water, and the Swelling leffened .- In a few Days he had the Draughts only twice a Day, Morning and Evening, and as he refled badly at Nights, twenty or twenty-five Drops of Laudanum were added to the Evening Draught; and at the fame time he began to rub his Belly Morning and Evening for near an Hour and a half with Sallad Oil. This Course he continued for a Fortnight; he was fenfibly eafier after each Unction, he began to make Water freely, and the Quantity he made foon exceeded that of the Liquor he drank. By the Middle of April, both his Belly and his Legs were reduced to their natural Size, he walked out, was feemingly in good Health on the 26th, and continued well fome Months after, the laft Time his Phyfician faw him. It is remarkable that the first very great Flow

β. The Antients burnt the Skin with a hot Iron, and fome Moderns use the potential Cautery in Place of it. But Eschars formed

Flow of Urine came after eating for Supper a Couple of Eggs with the Shells, which his Nurfe had recommended to him as good for his Stomach.

** Another Patient of the fame Gentleman's who had been fubject to the Gravel, after catching Cold, perceived that his Belly and Legs had fwelled, and that he did not make a Quarter of a Pint of Urine in the twenty-four Hours. The Doctor at first ordered him fifteen Drops of the Oil of Juniper mixed in a Draught by Means of the Yolk of an Egg twice a Day, and a mercurial Pill, which leffened the Swelling of his Belly, but not of his Legs. After four Days the Pills made him fick, and he was defired to leave them off, to rub his Belly Morning and Evening with Sallad Oil, and to use for Drink an Infusion of the Cineres Genistæ; these Remedies proved extremely diuretic, removed all the Swellings, but the great Difcharge by Urine weakened him too much, and therefore he was obliged to leave off their further Use; the Doctor faw him some Time after, when he was much emaciated, but had had no Return of his dropfical Complaints.

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by

by either Method will not allow the Water to pass off immediately; so that we must wait for the flow Separation of the Eschar, while in the mean Time the Disease is gaining Ground, or the Eschar must be cut thro' or removed, and therefore the previous Burning was useles.

7. In Galen's Time Punctures were more used by Physicians than burning (q), the former in general allowing the Water to run out more plentifully (r).

(q) See Galen. Comment. in Aphor. 27. feet. vi.

(r) A Man Seventy Years of Age, who laboured under an Anafarca, by the Afliftance of the Puncture with the Needle lived feveral Months, Willis de Anafarca, pharm. ration. part. 2. One of the Servants of the Portugueze Envoy to the British Court would have died in a short Time of a Dropfy, had not the Waters plentifully and constantly ouzed out at an Orifice casually made just by his great Toe, where he had formerly a deep-rooted Corn. English Translat. of Boerhaave's Aphorisms, note to feel. 1242.

Moft

3. Most of the Moderns follow Celfus's Method (s), and make Incisions into the Hydropic Swellings to give Vent to the Water (t).

The

(s) "Incidendum quoque fuper talum, quatuor fere di-"gitis, ex parte interiore est: quo per aliquot dies frequens "humor feratur : atque ipfos tumores incidere altis plagis "oportet; concutiendumque corpus est multa gestatione, "atque ubi inductæ vulneribus cicatrices funt, adjiciendum fexercitationibus & cibis, donec corpus ad pristinum sta-"tum revertatur." *Celf. lib.* iii. *cap.* 21.

(t) A middle aged Man labouring under an Anafarca from Hard-drinking, had Incifions made on the Infide of his Thigh, which difcharged a vaft Quantity of Water, and took three Dofes of a ftrong hydragogue Purge, of the Juice of the common Iris, at the Diftance of three Days between each, while only a Pint of Liquor was allowed him in a Day; by which Method most of the hydropic Swellings fubfided. He then was ordered, by Way of a Strengthener, fome Wormwood Water in which a little Rhubarb had been infused. The Incifions were kept open, and the Patient abstaining from drinking for fome

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Months,

e. The Egyptians are faid (u) to have made Setons in the Skin, for the Water to drain away

Months, was quite cured. Lifter. Exercit. Med. de hydrope, egrot. 1.-In the Month of April 1754, Elizabeth Davies was taken into St. George's Hofpital, by Dr. Dawfon, for an universal Dropfy; she told me she had been formerly hydropic, and was cured by purging. The Doctor at first ordered her some Doles of Jalap and Nitre, two or three Times a Week, and in the intermediate Days to take the Squill Pills ; which Medicines had little Effect. In the Beginning of May her Legs were fcarified, and the was ordered dry Diet, and the bitter fcorbutic Ale, and to continue the Use of the Squill Pills. In a little Time moft of the extravalated Water was evacuated by the Scarifications. By continuing this Regimen, and taking now and then a Purge, and once a Vomit, all her dropfical Swellings were gone by the Month of July, when the was ordered the Steel Electuary and cold Bath. Being to all Appearance cured of her Dropfy, fhe was going to be difmiffed the Hofpital, when the was fuddenly feized with a Fever, and died the third Day. Upon opening her Body no visible Cause could be found to which either her Dropfy or Fever could be attributed .- A Lady labouring under both an Anafarca and Afcites had a fmall Incifion made in each Leg, through which about a Gallon of Water was discharged every Day for ten Days together; her Legs

away through the Apertures, by which the Cord paffes. Others put Peafe or fome fuch Bodies in the Incifions to keep them open; but a Gangrene is to be feared

Legs were fomented often with warm Fomentations; fhe drank twice a Day a Cupful of a bitter Infufion, and at Night a diuretic Draught made with Oxymel of Squills, Cinnamon Water, and Spirit of Lavender, and as her Strength returned fhe took fome purgative Medicines. By this Treatment fhe was reftored to Health, and lived five Years afterwards without a Relapfe. Mead. Mon. Med. cap. viii.—Mr. Cowper is faid to have cured a great many by making an Incifion between the Toes. English Transfeat. of Boerhaav. aphor. note to fect. 1242.

(u) "Veteres Ægyptii homines hydropicos pharmacis " quidem non vexabant; introducebant autem per cutem " acus fila trahentes, relinquebant in vulnere fila, ne coalef-" ceret, ita aqua continuo fluxu, diu noctuque effluebat " omnis." Boerbaav. comment. in inflit. med. feot. 416. edit. ab Haller.—Where Boerhaave met with this Account of the Egyptians I cannot find; but one may fee this Operation defcribed, and Cafes of the Afcites where it was unfuccefsfully put in Practice, related by Decker, Exercit. practic. p. 289.

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from

from the continual Preffure and Irritation of these extraneous Bodies.

75. Some Cautions ought to be observed in making these Incisions.

a. They ought always to be in the lower and most depending swelled Part, that the Water may have a free Exit.

b. Large Veffels, Nerves, Tendons, and fuch other Organs, are not to be hurt, if it can be avoided, in performing any of thefe Operations.

c. The Difcharge of the Water must be regulated according to the Strength of the Patient, left in attempting to cure we deftroy him (x);

(x) "Ægrum igitur quovis modo fuffinere oportet, ne "curatio mortem acceleret; id quod mihi videre contigit, femel quidem mea ipfius non fatis caute ægroti robur æflimantis atque iterum chirurgi temerarii culpa." Mead. Mon. Med. cap. viii.

and

and therefore he is by all Means to be fupported, and if the Evacuation be too large, it must be moderated by proper Plaisters and Bandages.

d. Hippocrates long ago observed, that the Sores of hydropic People were not easily cured (y); and therefore advises that they should be anointed with a warm Medicine (z); and left the Skin near to such Sores, being perpetually wet with the warm sharp Humours flowing from them, inflame, become painful, and in Danger of producing a Gangrene, it ought to be protected by some defensive Ointment (a).

(y) See Hippoc. Aphor. fect. vi. 8.

(z) See Hippoc. de locis in homine, fect. 36.

(a) R. Unguent. alb. unc. i. liquescat leni calore, & ab igne remoto, adde balsam. oppodeltoch. drach. i. misce.-vel R. Ung. e lapide calaminari sescunc. balsam. peruvian. drach. iii. eamphor. in spirit. vini solut. drach. ii. misce s. a. exsiccatæ cuti applicetur linimentum super linteum extensum, vel manu cuti affricetur.

e If
e. If the Sores of a dropfical Patient Gangrene, they must be treated with Medicines proper for this last named Difease (b).

EXTERNAL HYDROCEPHALUS.

76. The external Hydrocephalus has nothing further peculiar to it, than that the Water cannot eafily defcend from the Integuments of the Cranium to the inferior Parts, by Reafon of their clofe Connection to the Ears, Mufcles, and their Aponeurofis (c).

77. In the Cure great Benefit arifes from Preflure by Bandages, which could be of little or no Service in the external Hydrocele; the Medicines are in other Respects the

(b) See the good Effects of the Peruvian Bark in fuch a Cafe. Med. Esfays, vol. iv. art. 10. obf. 2.

(c) Hieron. Fabric. ab Aquapend. fays he has feen the Skin of the Head not only feparated by Water from the Pericranium, but also raifed by it into a large Tumour. Operat. chirug. de hydrocephal.

fame

fame as were prefcribed for the universal Anafarca (d).

Of the DIFFUSED DROPSY of the SPERMA-TIC CHORD,

78. A diffused watery Swelling of the Spermatic Chord, which feels like a deep feated oblong Tumour along the Course of the Chord, has nothing peculiar either in its Symptoms or Cure, except it becomes so large as to require the Water to be let out either by

(d) See in Burnet's Medicinæ thefaurus, from Amatus Lufuanus, a Cafe of a Boy who was cured of a Hydrocephalus by anointing the Parts with an Ointment made of Camomile, Wormwood, and Butter. Lib. viii. fect. 11.— One Abraham Clef, by riding in cold Weather, had his Head diftended with a watery Swelling to a monftrous Size. He was cured by Frictions, warm Fomentations, and a Bolus, which both purged and vomited him. Binninger obf. cent. 1 obf. 94.—An old Man was cured of a Hydrocephalus by an Ifiue made with the actual Cautery. Pifo. obf. part. 1. fect. 2.

Puncture

Puncture or Incifion; in which Cafe the Operation must be done with Care, left the Spermatic Vessels be hurt.

Of the SCROTAL ANASARCA.

79. The external Hydrocele or Scrotal Anafarca, which is often accompanied with a very large watery Swelling of the fubcutaneous cellular Membranes of the Penis, increafes fometimes to a monftrous Size, on account of the great Quantity of loofe cellular Membranes in the Scrotum; but this Difeafe has little elfe than the Name peculiar to it (e), except

(e) A Gentleman by a Fall bruifed one of his Tefficles, which remained larger than the other without giving him any Trouble for about twenty Years, when he found his Scrotum begin to fwell; it continued to increase till it was as large as a Child's Head, and so firm that it was difficult to know what its Contents were. It withstood both external and internal Medicines, till a Puncture was made into it with a Lancet, and a small Quantity of Water was discharged; we could then easily feel a Fluctuation of

except that when an Attempt is made to cure it by Incifions, they ought to be made on each Side of the Raphe, otherwife the Water will not be evacuated from the lower Part of the Scrotum, on the Side where there are no Incifions; because, though there is always a free Communication among the cellular Membranes of the Scrotum some way below the Penis, yet in several Bodies there is not such a Communication at its lower Part (f).

of Liquor; and though but a fmall Quantity of the Water was let out, by applying to the Scrotum a Powder of Chalk and Wormwood, and giving a few purgative Medicines, the reft of the Swelling was difcuffed, and a Cure completed.—A Soldier in the Campaign 1745, came to Dr. Grainger with a ferotal Anafarca, which was occafioned by a Blow on the Scrotum the Day before. He was immediately[®] blooded, and a Difcuffion of the Tumour attempted with Fomentations, by which the Inflammation was removed, but the Swelling ftill remained. The Doctor ordered a Blifter to be applied to the whole Scrotum, which difcharging plentifully, in a few Days happily effected a Cure. Douglas's Treatife on Hydrocele, chap. i. p. 18. fect. 20.

(f) See the Description of the Structure of the Scrotum in Medical Essays, vol. v. art. 20. fest. 30.

If

If this Difeafe is the Confequence of an Afcites, an Anafarca, or other Diforder, its radical Cure must be the Removal of these its Causes; foon after which it commonly goes off of itself, or with very little Affistance, which is no other than has been prescribed for the general Anafarca.

80. There is indeed a baftardKind of it, that, to wit, which is caufed by Urine efcaping through the Subftance of the Ureth'a, and diffufing itfelf among the cellular Membranes of the Scrotum, where it foon turns acrid, and irritates or erodes the Cells containing it (g).

«. In this Cafe numerous Incifions are to be made into the Scrotum, for giving a free Paffage to the Urine, which might otherwife create wide extended finous Ulcers and Fiftulæ.

(g). See Examples of this in Miscel. Cur. a. n. c. dec. 3. an. 3. obs. 68. and in Medical Essays, vol. v. art. 22. What-

e. Whatever Obstacle there is to the Passage of the Urine through the Uretha, it ought to be removed.

 γ . The Urine is always to be let out of the Bladder through a Catheter introduced into it, till the preternatural Opening in the Uretha is clofed up.

A. If these two last Methods cannot be executed, an Incision ought to be made in the Urethra, between the Part which is blocked up and the Bladder, that the Urine may flow out of the Wound, and not be dispersed thro' the cellular Substance of the Scrotum and neighbouring Parts.

External WATERY SWELLING of the Knee.

81. An external watery Swelling fometimes appears at the Knee on the Forefide of the Rotula, efpecially of Chamber Maids and others

others who work upon their Knees. It feels mostly like a diffused, though sometimes like an incysted watery Swelling (b).

82. The Cure is to be attempted by,— The Fumes of aromatic Gums, or other Aromatics received on the Knee;— the embrocating the Part with difcutient Liniments; the Application of difcutient and aftringent Fomentations and Poultices ;—and Dofes of fome brifk purgative Medicine.

83. If the Swelling be large and does not yield to the above Treatment, it must be punctured to let out the Fluid, and afterwards a gentle Preffure kept on the Part, by Means of Bandages, while the Remedies just now mentioned are used.

(b) This Sort of Swelling of the Knee is not generally taken Notice of by Authors, though I have feen three or four fuch Cafes, which were cured by the Remedies here recommended. I never faw any of them opened, but I have been told by Surgeons of Experience that they have known troublefome Symptoms follow the making a large Incifion into fuch Tumours.

84. IN-

INTERNAL DIFFUSED DROPSIES.

84. Water diffused through the cellular Membranes of the internal Organs, the Mediastinum, the Mesentery, the Stomach and Intestines, and the other Parts, is not to be distinguished till the Dropsy becomes more universal, and shews itself either in form of a Hydrops Thoracis, an Ascites, or an universal Anafarca.

85. Is it not reafonable to believe that many Dropfies of the Breaft and Abdomen have taken their Rife from Extravafations of watery Fluids into the cellular Membranes of the internal Organs, compressing and otherwife diffurbing the Functions of their abforbent Vessels, especially in those Dropsies which yielded to Punctures made into the cellular Membranes of the Legs, and to other external Drains (b)?

86 Such

86. Such internal diffufed Dropfies when known require to be treated in the fame Manner as the univerfal Anafarca.

DROPSY of the LUNGS.

87. When the Lungs are diffended with Air, their whole cellular Substance feems to have plain Openings into the Bronchi or Branches of the Trachea, and therefore one should

(b) Mead relates an Example of an Afcites cured by an external Drain; but as the Patient ufed Diuretics and Purgatives, the Cure could not be attributed folely to the Drain. Monit. Med. cap. 8.—The Water in the Belly of an afcitical Perfon is faid to have all run off through the Pores of the Skin and Cuticle of the Hypochondria. Mifcel. cur. a. n. c. dec. 2. an. 1. obf. 79.—A Man who had both an Anafarca and Afcites was freed of the Anafarca by making an Incifion into the Scrotum, but the Afcites did not diminifh. Mif. cur. a. n. c. dec. 2. ann. 10. obf. 34. —It is a general Remark that Scarifications and Iffues do no Good in the Afcites, unlefs it be complicated with anafarcous Swellings.

imagine

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imagine that all the Fluid which once entered these Cells would be readily thrown up by coughing; but in the Kind of Afthma commonly called Humoral, the Paffages from the Cells into the Bronchi seem to be some how or other shut up; for the Patients have for a confiderable Time a laborious suffocating breathing, without bringing up any Thing, and then cough up large Quantities of soft streamed a Species of the diffused Dropfy? But however this be, it is certain that the humoral Afthma is often the Occasion of the Anafarca (k), and is cured by the Remedies that

(k) Dr. Simfon, in his Remarks on the Hydrops Pectoris, &c. fays, "I have found a fmall Degree of an Anafarca "attended with a much greater Breathlefinefs than the "greateft Swellings of the Afcites, fo that when I find a "fudden afthmatic Fit attack a Perfon without any other "vifible Caufe, if I find the leaft Fullnefs of the Face or "Ancles, I make no Doubt to fix upon this as the Caufe, "and I form my Indication of Cure accordingly, efpeci-"ally if I find along with it a Pulfe fupprefied fo as fcarce K 2

that remove this Diforder, of which fome Account has already been given.

"to be felt." See Edinburgh Medical Effays, Art. 59-

I have feen fome fuch Cafes; and there is a remarkable one inferted in the *Medical Essays*, vol. iii. art. 25. of a Gentleman rendered anafarcous by an Infarction of the Lungs, whofe Pulfe was no where to be felt till after the Operation of fome Purgatives, which proved his Cure in three feveral Attacks; after which he lived many Years in good Health.

This Edema of the Lungs is taken Notice of by Albertini in the Institut. Acad. Bonon. tom. i. p. 382.—By Van Sweiten, Comment. fect. 1220. vol. iv. pag. 143. and by other Authors.

PART.

· [133]

PART II.

CHAP. II.

Of the INCYSTED DROPSY.

88. THE Cyfts or Bags which contain the Water of Dropfies, are either fuch Cavities as exifted naturally in the Human Body, or fuch as are mostly formed by the Difeafe. The former may be called *natu*ral Cavities, the other preternatural Cyfts.

Of natural HYDROPIC CAVITIES.

ichginous Glands, Sco.---: ho

89. The Natural hydropic Cavities, either contain nothing but Water, or contain with it other Organs.

K 3 90. There

90. There are only two Examples of Natutural Cavities containing nothing but Water, to which Authors have beftowed the Name of Dropfies, viz. the Uterus, and Fallopian Tubes.—The Diftenfion indeed of the Urinary and Gall Bladders, by their proper Liquors, refembles it greatly; but as the contained Liquors are very different from Serum or Lymph, the Difeafe ought not to be ranked with the Dropfy.

91. The Cavities which contain other Organs along with the Water, are many.—The Eye, containing its Humours, — the Skull, the Brain and its Coverings—the Vertebræ of the Spine, the fpinal Marrow and Nerves the Capfular Ligaments of the Joints, within which are the Mucaginous Glands, &c.—the Thorax, in which the Lungs and other Organs are fituated—the Pericardium, ferving as a Cafe to the Heart, and large Veffels near it,—the Abdomen, containing the Chylopoetic and other Vifcera,—the Tunica Vaginalis, the Tefficle.

93. Though

92. Though Anatomists demonstrate, that many of the Organs, faid to be contained in these Cavities, are placed on the Outfide of the Membranes that compose them; yet I may here be allowed to use the common Way of fpeaking in Refpect to these Subjects, and may therefore confider these Organs as if they were contained within the feveral Cavities.

93. These natural Cavities are not immediately, upon the Beginning of a Collection of Water, fo much ftretched by it, as those Cyfts are which owe, in a Manner, their Existence to the Difeafe; for which Reafon the Fluctuation of the contained Liquor is more perceptible, when the Part is moved or alternately preffed by the Fingers than it is in the preternatural Cyfts. -The Tenfion and Weight of the Liquor which falls always to the lower Part, are more fenfibly felt where it has Room to move from one Part of the Sac to the other, than where it remains always in the fame Place ; and as it is toffed hither and thither it fooner be-K4 comes.

comes acrid, and erodes the Parts it is contiguous to; and if it is abforbed and mixed with the Blood, it produces Fever, Thirst and other bad Symptoms. The less stretching and Preffure there is on the Cyst, the stronger Power of Absorption do its Vessels possels, according to the general Remark in sect. 36.

DROPSY of the UTERUS.

94. The Dropfy of the Uterus is occafioned by fuch Caufes as obftruct the Paffage from it, and the Abforption of the thin watery Liquors which naturally diffil into its Cavity (1); or Hydatides may be formed in it, either

(1) In July 1754, I was defired by Dr. J. Durban, Phyfician at Halefworth in Suffolk, who then lived at Richmond in Surry, to fee Mrs. Knowels, a poor Woman who was ill of the Dropfy. She was fifty-two Years of Age, and had had a Child in the Year 1726. In 1744 her Belly began to fwell, and fhe imagined that fhe was again with Child,

ther in its own cellular Substance, or in Remains of Placentæ (m). The Progress of this

Child, till nine Months were elapfed; when perceiving her Miftake, fhe confulted a Phyfician, who believing the Swelling to be occafioned by a flefhy Subftance in the Uterus, ordered her to take a Dofe of Hiera Picra once a Month. After fome Years the Swelling decreafed greatly, when a fmall hard Lump could be perceived in the right Epigaftric Region, which fhe faid feemed to fall over to the left Side like a Ball, when fhe turned from the right to the left Side in Bed.

In Spring 1753, fhe had a paralytic Stroke, which affected principally the Muscles of her Face.—In Autumn her Menses ftopt—and towards the End of the Year she perceived her Belly begin to enlarge again; and after taking a Dose of Hiera Picra, she was attacked with a violent Pain of her Bowels, and a Purging. Soon after this her Belly swelled as much as if she had been fix Months gone with Child; and although the Use of Diuretic, mild laxative and opiate Medicines lessened the Swellings a little and procured her temporal Relief, yet she daily loss Strength, and complained often of Sickness, and sharp Pains in the Bowels till the Time of her Death, which happened the 23d of September 1754.

When I faw her in July, Dr. Durban told me that he had fome Days before introduced his Finger into the Vagina ;

and the second second

this Difeafe is fometimes like to that of Pregnancy, and in young Women has at first been mistaken

gina; that the Cervix Uteri feemed by the Feel to be almoft obliterated, and the Os Internum to be entirely fhut up: and that when he had preffed the Point of his Finger up againft the Os Tincæ, he had felt a large hard Body rife upon it; and that the Woman had had a Difcharge of a purulent Matter from the Vagina for fome Time paft.—— In September the Doctor acquainted me of her Death, and I went out to Richmond next Day, and was prefent at the Opening of the Body.

The Omentum was eroded, and adhered to the Fundus Uteri and left Fallopian Tube .-- The Folds of the Inteftines adhered to one another in feveral Places .- The Uterus was as large as if it contained a Foetus of fix Months; it felt very hard ; its Substance cut like a Piece of Pasteboard, it was thin, in feveral Places was offifyed, and in others filled with a cretaceous Matter; it contained near three Pints of a black fetid Water, and its internal Surface was black, rough and eroded .- The Os Tincæ was fwelled, knobby and fcirrhous, and upon being preffed difcharged a fetid purulent Sanies, fuch as the Patient had evacuated by the Vagina when in Life .- The right Fallopian Tube and Ovary were greatly enlarged, their Substance being filled with a fleatomatous and fchirrous Matter, and they were befet 2 perce

mistaken for it, and the Truth not certainly known till nine Months were elapsed, the Mo-

befet with feveral watery Veficles .--- The left Fallopian Tube and Ovary feemed rather to be wafted.

Hoffman mentions a Lady who daily voided a Pint of Liquor from the Uterus, which reduced her to the loweft Extremity, and at laft put an End to her Life. The Uterus after her Death was found to be in part feithous, and its Veffels full of polypous Concretions. Medic. ration. fystem, Tom. iii. p. 160.

A Woman for fome time voided every Month from the Uterus as much Citron coloured Water as filled fix or eight Basons, after which her Menses flowed regularly. Fernel. in patholog. lib. iv. cap. xv.— Vefalius tells us he found 138 lib. of Water in the Uterus of a Woman; its Os Internum was wonderfully hardened, and the right Ovarium was composed of nine or ten Bags as large as Goose or Offrich Eggs. Anat. lib. v. cap. 9.

A lady imagining herfelf eight Months gone with Child, voided a great Quantity of Water, and was cured. Accouchmens de la Motte, obf. 16.——A Woman died of a Dropfy; when her Body was opened, her Uterus was found full of Water, and fo large that a Boy of ten Years of Age could eafily have been contained in it. The Orifice was quite fhut up by a round glandular Tumor, which feemed divided by Zones almost like an Orange. Bonet. fepulch. anat. lib. iii. feel. 21. obf. 55.

tion

tion of the Air in the Inteffines often refembling the Stirrings of a Child.

95. Wo-

(m) Two Bags full of Water were taken out of a Woman's Uterus, the Orifice of which had degenerated into an impervious folid Ligament, and on its Sides were a Number of flefhy Knobs. Mifcel. cur. a. n. c. dec. 2. ann. 5. obf. 50 8 67 .- A Woman voided a great Number of Hydatides from her Womb. Philosoph. trans. num. 460. feet. 11 .--A Woman who believed herfelf fix Months gone with Child, voided a fort of Mole that weighed 2 lb. composed of many hundreds of fmall Hydatides, which were fastened together by an infinite Number of fmall Filaments, and had for a Bafe a fort of confused fleshy Substance; after which fhe recovered in a fhort Time, and foon became pregnant. Fran. Mauriceau. obf. fur la groffeffe, obf. 377 .- A Woman about twenty-feven Years of Age, who imagined herfelf feven Months gone with Child, was feized with a Flooding, and called Dr. Crawford, who upon introducing his Hand into the Vagina felt fomething which he took for clotted Blood, and brought it away. Upon examining it, he found it to be a large Bundle of Hydatides, connected one with another by an infinite Number of fmall Filaments. The Bladders contained a clear Lymph, and were of different Sizes, fome as large as one's Thumb, and others as imall as a Pin's Head. The Woman's Pains continuing, the evacuated as many more Hydatides as filled a Quart-

95. Women with Child are likewife fubject to a Kind of Hydrops Uteri; for as the Os Uteri is fhut in the Time of Pregnancy, if there be too great a Secretion of Liquors into the Cavity of the Uterus, thefe Liquors are collected, and form a Kind of Hydrops Uteri.

96. These Waters are sometimes evacuated in the Time of Pregnancy without causing Abortion (n); at other times they are not difcharged

Quart-bason, after which the recovered gradually. See in Ruysch. Thes. x. num. 63, 64 & 65. the Account of Placentæ composed of Hydatides; and of one whose Half was only degenerated into Hydatides. Ib. obs. 33.---Histories of Bundles of Hydatides evacuated, which had Membranes attached to them like to those of the Secundines. Stalpart vander Wiel. obs. cent. 1 obs. 70.

(n) Mauriceau fays that Pregnancy is often complicated with a Kind of Dropfy of the Uterus; and gives feveral Inftances of Women who voided 1, 2, 3, 4, or more Pints of Water at different Stages of their Pregnancy, without mifcarrying, and having afterwards carried their Children to the ordinary Time, difcharged in Labour the ufual Quantity of Waters. The first Water voided, he imagines to have

charged till the natural Time of Labour approaches (o).

97. Where there is no Sufpicion of Pregnancy, the Finger or Catheter introduced into the Os Uteri without much Violence or lacerating the Parts, puts an End to the Difeafe very fpeedily by letting out the Water. But if a Paffage for it cannot be made in this Way, the conftricted Parts are to be relaxed by warm Baths and Fomentations (p).— Vomits may be

have been a Kind of Hydrops Uteri; fee his Traité des malad. des femmes groffes, lib. 1. chap. 21. and his Observations 7, 19, 60, 113, 186, 219, 361, 611, 688.

(0) Hildanus fays that his Wife, being pregnant in the Year 1604, fwelled to a monftrous Size; that, being taken with the Labour Pains, fhe voided eighteen Pints of clear Water; in about half an Hour after the Membranes broke, and the ufual Waters came away, and fhe was immediately delivered of a ftrong Male Child. Obferv. chirurg. cent. 2. obf. 56.

(p) We already mentioned the Cafe of the Counters of Keglewich, who was cured of a Dropfy of the Uterus by warm Baths. Miscel. curios. dec. 3. ann. 5 & 6. abs. 162.

given

given to try if the obstructed Orifice can be forced open by the Shock which the Uterus fuftains during their Operation (q); and they will probably have more Effect if the Patient vomit in a warm Bath. If these Methods prove ineffectual, and the Patient's Life appears to be in Danger from the Quantity or Acrimony of the Water, and a Fluctuation is plainly to be felt at the under Part of the Womb, a Trocar may be pushed into its Cavity; the Water being evacuated through the Cannula thereof, a new Attempt of introducing a Finger or Catheter into the Os Uteri is to be made; if it fucceed, a Spunge-tent, with a pretty long Thread tied to it, must be put in, to keep the Orifice open, and to permit the Water to drain away.

• (q) A Woman cured of a Dropfy of the Uterus by bruifing her Belly in a Fall. *Mifcel. cur. a. n. c. dec. 3. ann.* 5 & 6. obf. 57.— A Lady cured of the Dropfy of the Uterus or Fallopian Tube by a Cough, for which fome aperient Medicines had been given. *Zodaic. Med. Gall. ann. 2. Feb.* obf. 12.

After

98. After evacuating the Water, the Obstruction is to be removed by a fuitable Diet, by attenuating refolvent Medicines (r), and by strengthening, or drying (s) or relaxing (t) topical Applications, as the Cafe requires.

99. If the Obstruction depends upon a Tumor that will not refolve, it ought, if possible, to be taken away by manual Operation.

(r) R. Sapon. venet. gum ammoniac. fingul. drach. i. rada fcillæ exficcat. fcrupul. i. fyrup ex allio q. f. ut fiant pil.xxx. cap. v. bis die.— R. Pil. gummof. fcrup. i. fal. mart. gr. ii. mifce & divid. in pil. v. repetatur. dofis mane & vefperi.—R. Argent. vivi, fcrup. i. extingue in Balf. copain. & adde Amyli q. s. ut fiant Pil. x. cap. unam mane et vefperi.

(s) R. Aq. calc. fimpl lib. ii. gelat. amyl. unc. ii. m. injiciat. lib. fs. in uterum ter die.---vel R. Balfam. Peruv. drach. ii. vitell. ovi unius, mifce optime & adde last. vaccin. recent. lib. i. ad eundem ufum.-vel R. Vitriol. alb. gr. viii. folv. in aq. fontan. unc. viii. & adde mell. rofar. unc. ii. injiciantur in uterum.

(t) R. Decoët. commun. pro clyster. unc. x. tepide in uterum injiciendas ter vel quater die.—vel R. Ol. olivar. unc. viii. tepide injiciendas sapius.

DROPSY

DROPSY of the FALLOPIAN TUBES.

10. Water is fometimes collected in the Fallopian Tubes (u) by the fame Caufes as in the Uterus. In fmall Quantities it occasions little Inconvenience; but when the Collection grows

(u) One Catherine Bonevalia being in a bad State of Health from a Suppression of the Menses, her Belly began to fwell, and increased fo much as to make her Life quite miferable for nine Years that fhe lived. When fhe died, her Body was opened. The Omentum was found quite putrid, the Liver pale, the Spleen small, no Water in the Cavity of the Abdomen, but about 9 lib. of Water and Pus, mixed with Hydatides, in each of the Tubes of the Womb; there was fome Hydatides below the outer Coat of the Uterus, but no Liquor in its Cavity. Tulpii Obf. Lib. iv. Obf. 45 .- The right Fallopian Tube contained twelve Pounds of Water. Zodiac. med. gall. An. I. Epift. vi. Obf. 9. The left Tube contained thirty one Pounds of a watery and gelatinous Liquor; the Substance of the Tube was fo thickened and enlarged as to weigh lib. 7. De Haen Rad. med. par. v. cap. viii. fect. 1 .- Bonetus ralates a Cafe where the upper Part of the right Tube contained a hundred and twelve Pounds of Water ; the left Tube was fcirrhous, and weighed lib. 10. See Sepulch. anatom. Tom. ii, Lib. iii. Sect. 21. Obf. 39.

L

large,

large, it brings on a Number of bad Symptoms, by its Preffure on the neighbouring Organs. Before this happens it feels like a deepfeated Tumor, the Nature of which cannot well be determined; but when it becomes fo large, as to diftend the Abdomen, a Fluctuation of Liquors is felt in a full-diftended deepfeated Sac. It is almost impossible to determine the precise Seat of the Disease till after Death; for the Ovarium being very subject to sorts of Dropsies are sometimes complicated together, as we know by Cases related by Authors (w).

(w) In the French Translation of this Essay there are two Cases of this Kind quoted from Dr. Haller's Collect. Difput. Patholog. tom. iv. p. 249, 250.-—In the one both the Tube and Ovarium were dropfical; in the other the Uterus was also affected, and they made one confused Mass of an enormous Size composed of Cells filled with a ferous and mucelaginous Matter.

The

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The Cure may be expected chiefly from the Methods to be proposed afterwards for the Cure of Hydatides. Could we determine the Seat of the Difease, we might attempt to open the Orifice of the Tube into the Womb by warm Baths and Emetics, as was proposed in treating of the Dropsy of the Uterus : for in case the Obstruction depended upon Stricture or viscid Matter in the Tube, we might be so lucky as to succeed.

The true HYDROPHTHALMIA.

101. In the true Hydrophthalmia the Ball of the Eye increases gradually, and the Sight decays; at length, when the Swelling becomes large, the Patient grows blind, and Part of the Ball stands prominent without its Orbit; sometimes a smart Pain is felt in it, and the Transparency of the Eye is lost.

102. Sometimes only the Cornea, and at other Times only Part of it protrudes; and L 2 nearly

nearly the fame Confequences follow as when the whole Ball of the Eye is affected.

103. This Difeafe rarely proves mortal, but frequently deprives the Patient of the Sight of the Eye affected.

104. At its Beginning it fometimes may be cured by aftringent ftrengthening Applications (x). Purgatives are frequently to be given; and moderate Bleeding, repeated as Occasion requires, is often necessary.

105. When the Eye is large, and Medicines do not diminish it, a fmall Incision must be made

(x) R. Acet. q. f. ut madescat linteum, cui aspergatur pauxillum spir. vin. campborati, et oculo applicetur.—R. Flor. camamel. rosar. rub. ana unc. ii. coque ex vin. Gallic. rub. q. f. ut siat epithema.—R. Tutiæ præparat. drach. i. vitriol. alb.gr. iv. sacchar. saturn. g. ii. misce, terantur. in pulv. subtil. et cum aq. rosar sefcunc. siat collyrium oculo instillandum.--R. Pulv. subtil. tut. drach. ii. alumin. gr.v. axung. porcin. drach. iii. misce, siat f. a. ung. cujus pauxillum inter palpebras immittendum.

made into the lower Part of the Cornea to let out the Water; after which a proper Compreffion must be kept on the Eye, and strengthening Applications administered frequently; it is often necessary to let out the Water feveral Times (y).

106. This

(y) I have feen this Diforder frequently; three of the Patients had the Water let out repeated Times, and notwithftanding that different Means were used, the Swelling always returned as large as at first. Blancard gives two Cafes of the Hydrophthalmia; 1. Of an English Nobleman labouring under this Difeafe, who had always a fharp Pain of the Eye when he eat any thing falt or four. He tried many Remedies, but received no Benefit. 2. A young Man, after an Inflammation of the Eye, was feized with an Hydrophthalmia; the Water was four Times evacuated, but collected anew ; the fifth Time it was let out, and by the Help of Preffure a Relapfe was prevented, but he loft the Sight of his Eye. Oper. vol. ii. cap. 13 .- A Student of Divinity labouring under an Hydrophthalmia, (which not only disfigured him much, but affected the Sight of his Eye) after taking a great many Medicines without receiving any Benefit, had the Water let out by an Orifice made at the Part where the Needle is commonly introduced in couching a Cataract. After the Operation his Eye was anointed Morn-L 3

106. This Diforder frequently remains obflinate, and refifts every Method of Cure that is attempted; and when the Swelling is got the better of, it is commonly attended with an Obscurity of Vision, if not with a total Loss of Sight of the Eye affected.

INTERNAL HYDROCEPHALI.

107. Water has been found in large Quantity between the Cranium and Dura Mater (z), or

Morning and Evening with Vipers Fat, and Pledgets wet with camphorated Spirit of Wine kept conftantly applied to it : notwithftanding which the Water collected anew. It was again perforated, and the fame Remedies applied, while a continual Preffure was kept upon it with a concave Piece of Lead juft large enough to cover the Eye. By this Manner of Treatment the Eye, in a few Months, was in a good State. *Heifter's Obfervat. p.* 589. *obf.* 527.—*Nuck* mentions a Cafe where the Eye was reduced to its natural State by frequently letting out the Water, and keeping a Preffure upon it with a Piece of Lead. *De Oculor. duttibus aquof. cap.* 2.—*Boerhaave* fays he was twice fo lucky as to cure this Difeafe; his Method of Cure was by Bleeding, and giving

or between this Membrane and the Pia Mater (a), or between the Pia Mater and Tunica Arachnoidea (b); and Hydatides have been ob-

ing ftrong mercurial hydragogue Purges, by letting out the Water frequently, and then keeping Pledgets dipped in Spirit of Wine applied to the Eye, and compressing it with a Plate of Lead. He fays an Atrophy of the Eye generally succeeds the Cure of this Disease. De Morb. Oculor. fest. 165. p. 170.

(z) Five Pounds of Water were contained between the Skull and Dura Mater, in the Falx and Cavities of the Brain. Bonnet. fepulch. anat. lib. i. fect. 2. obf. 45. — Trew faw Water between the Skull and Dura Mater, between this laft and the Pia Mater, and in the Ventricles of the Brain. Act. Phys. Med. a. n. c. vol. iv. obf. 135.

(a) Blancard found about two Pounds of Water between the Dura and Pia Mater of a Fœtus about feven Months old, and alfo a Veficle that contained thirty Ounces of Water adhering to the Membranes of the Back-Part of its Mouth that lie before the Vertebræ Oper. vol. ii. p. 135.

(b) Van Sweiten fays he has observed this frequently in People who have died of the Lethargy. Vid. Comment. in fect. 1217.

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ferved

ferved in the Substance of the Brain (c), and large Quantities of Water collected in its Ventri-

(c) See Cafes of Hydatides in the Brain in Haller's Difputat. anat. vol. ii. p. 845. by Bergen .--- In a Boy between fix and feven Years of Age, who died of an Hydrocephalus, there was found a fmall Cyft full of Water near the Surface of the Brain, the Ventricles diffended with Water, and a Number of Hydatides in the Plexus Choroides. Medical Eflays, vol. iii, art. 23 .- In the French Translation of this Effay there is a Cafe quoted from Lancifi de fubit. mort. lib. i. cap. ii. A Perfon fixty Years of Age, afflicted with the Gout, was attacked with epileptic Fits, attended with Melancholy and Lofs of Memory; he lived fix Years afterwards, and then died fuddenly. When his Head was opened, there was found in the cortical Subftance of the Brain, immediately below the Pia Mater, a Hydatide about the Size of a Pigeon's Egg, filled with a ferous and gelatinous Matter, and the cortical Substance on which its Basis rested seemed to be scirrhous .--- Wepfer fays, that a Surgeon of Credit (Philip Oemelin) affured him, that Hydatides in the Brain was a common Difeafe among the horned Cattle in Switzerland, and fnewed itfelf by a Giddinefs or Vertigo. When the Country People observe this, they strike the Head behind the Horns with a Hammer, to try if by the Sound they can diftinguish

tricles (d). These have all the Name of internal Hydrocephali. They bring on the Symptoms of a com-

tinguish any preternatural Hollow below, and if they imagine they do, they immediately trepan the Part, put a Quill into the Hole, and fuck out the Hydatides, if they lie near the Surface of the Brain, and fo make a Cure : but, if the Hydatides lie fo deep in the Brain that they cannot fuck them out, they immediately kill the Creature. This Operation the Surgeon affured him he had feen done, and attended with Success. De ApopleEt. loco affect. p. 69. He afterwards tells us, that he himfelf faw it tried upon an Ox afflicted with Giddinefs, when a large Number of Hyr datides were fucked out; but the Vertigo fill continuing they killed the Creature, and, upon opening the Head, they found a Number of Hydatides in the Ventricles of the Brain. Hift. Apoplest. 14. These Histories although related by Wepfer, an Author of Credit, yet feem too much upon the marvellous; and, at any Rate, the Uncertainty of the Existence of the Disease from the Method taken to discover it, and the Danger of the Operation, will, in all Probability, prevent its being ever attempted on the human Subject.

(d) In the Year 1755 I faw a Child fix Months old, whofe Head was diffended to a monftrous Size; after its Death the Head was opened, and there were eight Pints of

a comprefied Brain, to wit, Pain of the Head, Giddinefs, Stupor; fuch Patients flare exceffively, the Tears frequently flow, they are drowfy, their Senfes dull; fometimes they become blind and deaf, and lofe all the animal Faculties, till at laft Convultions, Lethargy, or Apoplexy put an End to their Miferies.

of Water in the Ventricles of the Brain. I have fince feen feveral Hydrocephali in which there was from half a Pint to three Pints of Water lodged in these Cavities .- Tulpius found five Pounds of Water in the Ventricles of the Brain of a Boy of five Years of Age. The Brain at first feemed wanting, but it adhered every where to the Bones of the Skull, in form almost of a thick Membrane. Obf. lib. i. obf. 24 .- And in the following Obfervation he fays, he has twice feen about two Pounds in one of the Ventricles, without any in the other. Ibid. obf. 25 .- Vefalius faw a Cafe of a Hydrocephalus where the Ventricles of the Brain were fo much diftended as to contain nine Pounds of Water. Anat. lib. i. cap. 5 .- Hildanus took eighteen Pounds of Water out of the Ventricles of the Brain. Cent. i. obf. 10 .- The Ventricles contained twenty-four Pounds of Water in a Child of a Month old. Mife. Cur. a. n. c. dec. 3. ann. I. obf. 10.

108.

108. Where the Head is not enlarged thefe Symptoms have been generally efteemed equivocal; but Dr. Whytt, Profeffor of the Theory of Medicine in the University of Edinburgh, acquainted me lately, that, from an accurate Obfervation of a Number of Cafes, he thinks he has discovered the Symptoms by which Phyficians may know certainly before Death when Water is lodged in the Ventricles of the Brain. —This Disorder, he fays, may be divided into three Stages:

a "In the first, which begins four, five or fix "Weeks, and fometimes much longer before "the Patient's Death, the chief Symptoms are "a flow Fever, accompanied with a Head-"ach, Loss of Appetite, and a Vomiting once "a Day, or once in two Days, together with "an Aversion to Light.

b "In the fecond Stage, the Pulfe, from being
quick and regular, becomes as flow or flower
than natural, but irregular; notwithftanding which the Patients are not relieved, their
Skin continues to have a feverifh Heat, they
" are

" are unable to fit up, they moan heavily with-" out being able to tell what ails them. They " fometimes complain of feeing Objects dou-" ble, they generally grow delirious, and fome-" times cry out in a wild Manner.

c "In the third Stage, the Pulfe, which had "been for fome Time as flow or flower than "natural, rifes again to a feverifh Quicknefs, "and the Patient becomes drowfy and coma-"tofe. The Pupils of the Eyes lofe their Mo-"tion and are dilated; the Cheeks are often "flufhed, and a *Subfultus Tendinum* with Con-"vulfions, an Unability to fwallow, and a la-"borious Refpiration, generally clofe the Scene.

d "During the first Stage, it is very hard to diftinguish the Disease. But when we meet with a Patient under fisteen or fixteen Years of Age seized with a Fever of no certain Type, and irregular in all its Accessions and Remissions; when in that Fever the Patients vomit once or twice a Day, or only once in two or three Days; when they shun Light, " and

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" and complain of a Pain at the Crown of their " Head, or over their Eyes after the Fever has " continued for fome Time, or of a Pain there-" abouts, that in fome Days does not abate, as " the Headach in ordinary Fevers generally " does; when these Complaints neither yield " confiderably to repeated Vomits, gentle Pur-" gatives nor Blifters, there is Reafon to fufpect " that there is Water in the Ventricles of the " Brain. But as Worms and other Diforders of " the Stomach are fometimes attended with " most of these Symptoms, we are often at a " Lofs to find out the Dropfy of the Cavities of " the Brain till it arrives at its fecond Stage, " when the Pulfe begins to turn flow and irre-" gular; for this Change of the Pulfe fuper-" vening to the Symptoms of the first Stage is " almost an infallible Sign of Water within the " Brain, if at the fame Time the Patient is " not relieved, and if the feverish Heat does not " abate with the Quickness of the Pulse, This " becomes still more evident when the Patient « is
" is affected with a Strabifmus, Delirium and "Coma, and when afterwards the Pupils di-"late and lofe their Motion, and the Pulfe "becomes very quick, while in the mean time "the Cheeks are often flufhed, the Tendons "ftart, and the Muscles are convulsed."

109. This Diforder feldom attacks Adults, and as their Crania do not yield to the diffending Water, one can only conjecture in fuch a Cafe, from the Symptoms above mentioned, what the Difeafe is (e). In Children, indeed, the Bones

(e) We have fome Inftances, though but few, of this Diforder having been obferved after the Bones of the Head had become hard and firm, and the Sutures were clofe.— *Hildanus* gives an Account of a Lad, eighteen Years of Age, whofe Head was diffended to a very large Size with a Hydrocephalus, though the Bones of the Skull were firm and hard. The Difeafe had begun when he was three Years of Age, and he was fubject to epileptic Fits. *Obferv.Chirurg. cent.* 3. *obf.* 19.—*Du Verney* tells of his having found three Pints of Lymph in the Head of a Boy of nine Years of Age; the Bones of the Cranium were firm, and above one Sixth of an Inch thick. *Traité des Maladies des Os, Tom.* ii.

Bones of whofe Heads are not firmly united, they are feparated by the Water farther than they ought to be, and leave larger Spaces between them, where fometimes the Fluctuation of the Water can be felt.

110. This Diforder for the moft Part ends fatally; and we have fcarce any well-vouched Inftance of its being cured after the Water had diftended the Cranium, and the Diforder was known for certain to be the Hydrocephalus, though many Authors alledge that they have cured what they imagined to be beginning Hydrocephali.

111. Corroborants, Cathartics, Diuretics, and Diaphoretics are to be employed according to the Exigency of the Cafe.—The Head is to be covered with a woollen Cap well fumigated

ii. p. 8.--Van Sweiten quotes a Cafe from Betbeder's Hift. de l'Hydrocephale de Begle, p. 35. where the Head was diftended, though the Bones had acquired their natural Firmnefs, but they became quite thin and pellucid.

with

with Spices, over which a pretty tight Bandage is to be put (f); a perpetual Iffue is to be kept running at the Bregma; or a Pea-Iffue put at the lower Part of the Occiput.

112. Some Authors, rather than let the Patient inevitably perifh, have thought it advifable to attempt a very uncertain and dangerous Operation, viz. to make an Aperture by which the Water may be evacuated; but hitherto wherever this Operation has been performed, the Event has been unfortunate (g), and the Patient died foon.

(f) A Child whofe Head was much fwelled, and the Sutures greatly dilated, was cured by Bandages alone, without any other Affiftances. *River. Obf. commun. obf.*vi.—It is faid in *Boerbaave's Praxis Medica*, that he cured the Hydrocephalus by giving fome Purgatives, putting in an Iflue, and afterwards bandaging and fomenting the Head. *Sect.* 1204.—A Boy fix Years of Age, whofe Head was as large as that of a Lad of eighteen, is faid to have been cured by aromatic and fpirituous Medicines applied to his Head, an Iffue in each Leg, frequent Purging, and the Ufe of Lixivium of Tartar in his Drink, and Aromatics in his Food. *Mifcel. Cur. a. n. c. dec.* 1. ann. 1. obf. 46.

113. If

113. If this Operation is ever attempted, the Opening ought to be made with a Lancet, where a Fluctuation is to be felt, and at . Part where there is no Danger of wounding any large Artery, or venal Sinus of the Head. The Operator ought never to make Use of the Trocar for this Purpose, as it requires a forcible Push to make it perforate the Teguments, and its Point may penetrate further than is intended; neither ought he to attempt the Operation where the Water is situated in the Ventricles, or deep in the Substance of the Brain.

(g) A Surgeon opened the Bregma of a Child nine Months old, and let out a Pound of Water, but the Child died in about thirty-fix Hours after. Hildan. obf. chirurg. cent. 5. obf. 17.--Le Cat let out the Water of a Hydrocephalus at different Times, by the Help of a broad-fhouldered Trocar, the Cannula of which he let remain in the Wound. He covered its Orifice with a flicking Plaifter, which he removed when he let out any of the Water, and put it on again when he thought he had evacuated a fufficient Quantity; and always afterwards bound up the Head tight with a capaline Bandage; notwithftanding which Precautions the Child died the fifth Day after the Operation. Philosoph. Transact for 1751, 52. fect. 40. M

114. After a small Quantity of Water is let out, the Wound is to be stuffed, to prevent too great a Discharge; for worse Effects are to be expected from a fudden Evacuation here than any where elfe, becaufe the weak Veffels of the Brain, and its foft Subftance, cannot refift the Force and Rarefaction of the Blood impelled by the Heart; fo that the Brain is foon overloaded with Blood when the Preffure of the Water is too fuddenly taken away : a Spunge, or fome fuch Subftance, which allows a flow draining off of the Water, is the beft and fafeft Application; for a Pipe introduced into the Wound, and allowed to remain there, may hurt the tender internal Parts. As the Water is thus drawing off, the Bandage on the Head ought to be drawn tighter and tighter, that the Cranium may be contracted in Proportion to its Contents.

If the internal Medicines that augment the Excretions are found infufficient to free an Adult from this Difeafe, Trepanning, which is

is the only Remedy left, may be tried, in hopes that if the dropfical Water is collected on the Outfide of the Brain, it may be let out. If the Water be feated in the Ventricles or Subftance of the Brain, this Operation will be of no Service.

BASTARD HYDROCEPHALUS.

115. The Bastard Hydrocephalus is an hydropical Excression on the Back-Part of the Head, the Sac of which has an immediate Communication with the Ventricles of the Brain; it is a Sort of Appendix to the last named true Species of Hydrocephalus, and is seldom or never cured, but proves fatal in a short Time.

116. The Integuments are to be kept entire as long as possible; for the Opening such Tumors causes Death soon (b); and the external Medi-

(b) Ruyfcb has fometimes feen thefe Tumors larger than the Head of a new-born Foetus; and he remembers to M 2 have

Medicines prefcribed in Sect. 72. *a*. may be tried; but little or nothing elfe can be done for fuch young Patients as these generally are.

DROPSY of the SPINAL MARROW, or SPINA BIFIDA.

117. The fame is to be faid of the watery Tumors of the Spine, where the back Parts of the Vertebræ, or Os Sacrum, are wanting, and the Spinal Marrow fo compressed as to pass unobserved, or to seem to be changed into Water (i).

118. DROPSY

have feen one larger than the Child's whole Body; he fays they communicate with the Ventricles of the Brain, and that the Opening them deftroys the Patient immediately. Obf. Anat. Chirurg. Obf. 52.

(i) My Brother, Dr. A. Monro junior, wrote to me, that, in Summer 1764, on examining a Cafe of this Kind, he found the Spinal Marrow compressed, and so closely adhering to the Back-Part of the Sheath, that at first it seemed to have been wanting, and was conjectured to have been melted down into a watery Liquor.

I have

DROPSY of the JOINTS.

118. A Dropfy of any Joint, especially of the

I have feen this Difease four Times ;- the first was a feemingly healthy Child, about fifteen Months old, who had fuch a watery Tumor on the Back, as large as an Orange, which I advised the Parents not to allow to be opened. I never faw the Child afterwards .- The fecond was a Child about nine Months old at the Foundling Hofpital, who had fuch a Tumor on the Os Sacrum, and was under the Care of Mr. Tomkyns ; the Tumor burft, and the Child died the third Day after ; upon examining the Os Sacrum after Death, its fpinal Procefs was found to be wanting .- The third wa a Child about two Months old, and had a Tumor about the Size of a large Walnut on its Back, where the spinal Process of two or three of the Vertebræ were wanting; the Tumor was twice opened, and the Child died when it was three Months old. -The fourth was a new-born Infant, who had a very large Tumor on the Middle of the Back, which when opened discharged above a Pint of Water; it died the fixteenth Day after the Operation.

Ruyfeb relates ten Cafes of this Diseafe, which all proved mortal. Obf. 34.—Blancard met with two which had the

M 3

fame

the Knee (k), has the common Symptoms defeibed in Sect. 4-10. and feldom yields to any

fame fatal Event .- Mr. Malcolm, Surgeon to the Scots Royal Regiment, told me, he once faw fuch a Tumor opened, and the Child died immediately .- A Child had fifty Ounces of Water within its Brain, a Tumor on the Occiput, and a divided Spine. Bonet. sepulchret. anat. lib. i. feEt. 16. obf. 4 .- See a fimilar Cafe, where the fpinal Marrow at the Part where the Tumor was, could not be obferved, and there were fcarce any Veftiges of Nerves. Mife. cur. a. n. c. dec. 2. ann. 2. obf. 158 .- A Child was born with a tendinous, or coriaceous Spot above the Os Sacrum, which extended itfelf into a large Tumor, and was extirpated. It contained more than a Pound of Water, and the Nerves of the Cauda Equina. The Child was always paralytic in the lower Extremities, and could not retain its Fæces or U-The Bulk of the Head diminished confiderably rine. when the Operation was performed, and it died the next Day. Mifc. cur. a. n. c. dec. 1. ann. 1. obf. 152. bifl. 2.

Wepfer gives an Account of a new-born Child, who had a watery Tumor of this Kind, fituated on the right Side of the fuperior Vertebræ of the Loins, which was opened fix Times. Three Ounces of Lymph were evacuated each Time, and the Wound healed, but after four Weeks the Head began to fwell, and the Child died of a Hydrocephalus

any internal Medicines, whether Corroborants, Diuretics, Diaphoretics, or even the ftrongeft Cathartics, be employed : more Service is to be expected from topical Remedies, fuch as fweating the Part with the Flame of burning Spirits; or the warm fulphureous Waters of Bath, Buxton, Aix, or Carlfbad, falling from a Height upon it; or the Application of Blifters, or of difcutient Fomentations, Liniments, or Poultices; or Iffues opened in its Neighbourhood.

119. But if it refift all these Methods, and the

cephalus when it was eleven Months old. See Observ. Medic. pract. de affect. capit. obs. 29.

(k) My Father, in his Lectures, used to observe, that he never faw this Disease except in the Knee, where he had often seen it; and that he had four Times cured it with strong Vinegar warmed and applied to the Part by Paper wet in it.——And Dr. Simfon says he has seen Swellings of this Joint, when taken Care of at their first Beginning, cured by a Purge, and the Fall of cold Water, and at other Times by the Fall of warm Water. Med. Essays, vol. vi. art. 20.

M 4

Symptoms

Symptoms are violent, the capfular Ligament is to be punctured with a Lancet in the Part that is thinness, and most free from Aponeuroses, Vessels, or Nerves, which is on the Infide of the Knee: for the Discharge of the Water in this Way sometimes makes a Cure (1); but too often the Operation is followed

(1) We have a Cafe related in the Asta phylico-medica. in which an Incifion, fome Inches long, was made into the Joint of the Knee, on the Infide of the Rotula, and three Pints of Water let out; after which, by the Affiftance of proper Dreffings, and ftrengthening Fomentations, the Patient was cured, and had the Ufe of this Joint fo well, that he could walk eafily. Act. phylic. med. a. n. c. vol. viii. obf. 27 .- A Countryman found great Uneafiness for some Months, from a moveable hard Substance in his Knee, which he always felt upon walking ; it generally made its Appearance under the Rotula, and on the Infide; the Parts about it were fwelled, though to no great Height. Dr. Simfon was confulted, who laying hold of it with his Finger and Thumb, cut into the Joint, and brought away this Body, which was about the Bigness of a Kidney-Bean, and with it about four Ounces of a thick pellucid Liquor. The Patient using his Leg that Day, such an Inflamma-

lowed by Inflammation, Fever, and their Confequences (m); and the Matter growing acrid, Amputation becomes the only Remedy.

120. The best Method of preventing these

Inflammation and Pain arofe, that it was twelve Months before it could be altogether removed; but at laft, by fyringing Water upon the Part, and laying a Cauffic near the Knee, the Patient was cured, and walked without any Impediment. Med. Esfays, vol. iv. art. 20.

(m) A Patient, in whom the Fluctuation of Water within the capfular Ligament was evident, had a Puncture made with a Lancet into the Joint on its Infide; near a Pound of Water was let out by this Orifice, which was dreffed with a little Lint and a Bit of Plaister, the whole Joint being covered with Aromatics and Stimulants: he took likewife fome hydragogue Purges. Neverthelefs, the Water was again collected in a few Weeks, when another Surgeon made a large Incifion into the Cavity of the Joint on the Outfide of the Knee; the Confequences of which were, fharp Pains, attended with a fmart Fever and high Inflammation, which ended in Suppuration, and an exceffive Discharge; this obliged him to take off the Limb above the Knee, in order to fave the Patient's Life, which was in imminent Danger, from a wafting Hectic. bad

bad Confequences of Inflammation, after the Capfula of a Joint is opened, is to perform the Operation in the Patient's Bed, with the Member laid nearly in the fame Pofture as the Patient can keep it in afterwards; to recommend abfolute Reft of the Limb till the Wound in the Membranes is cicatrifed (n); and

(n) The two following Cafes flew the Neceffity of using the Precautions here mentioned.

In the Year 1758, a Man was admitted into St. George's Hospital to have a moveable cartilaginous Substance about the Size of a small Bean, taken out of the Joint of his Knee. The late Mr. Hewet made the Patient come up to the Operation Room ; and having brought the moveable Subftance to the Infide of theKnee, and laid hold of it with his Finger and Thumb, he made an Incifion upon it, and brought it away ; a Quantity of a pellucid Liquor followed. The Patient felt but little Pain from the Operation, and was immediately carried to Bed; but next Day finding the Knee eafy, he walked acrofs the Ward in which he lay, which brought a violent Inflammation on the Joint, and notwithftanding that he was blooded freely, and other Means used, it was four Months before the Inflammation went off, and the Joint of the Knee remained fliff ever after. Some

and if the leaft Symptom of Inflammation appear, to blood freely, and follow the antiphlogiftic Method of Cure.

Some Months after this another Cafe of the fame Kind was admitted into the Hospital, and was under the Care of Mr. Hawkins, who at first declined performing any Operation, from the violent Inflammation he had feen follow the Extraction of the cartilaginous Substance in the former, and in fome other Cafes of the like Kind ; but the Patient perfifting in his Refolution of having this moveable Substance taken away, Mr. Hawkins at last confented to comply with his Requeft. He made the Patient go to Bed, and having put the Member nearly in the Situation he intended it should remain after the Operation, he brought the moveable Subfrance to the Outfide of the Knee, and having taken hold of it, cut upon it, and brought it away; a fmall Quantity of a clear glary Liquor followed. He covered the Wound with a little dry Lint and a Pledgit, and put a flight Bandage over it. Having laid the Member in a proper Posture, he defired the Man not to move it for fome Days, warning him of his Danger if he did not keep firictly to the Directions given him. The Patient punctually obeyed the Orders he received, the Wound healed as kindly as a common Puncture in bleeding; and he was well and walking about in a fhort Time, without the leaft Accident happening during the Cure,

DROPSY

DROPSY of the BREAST.

121. Water collected in one or both Cavities of the Thorax is at first difficult to discover. the Ribs and tenfe fhort intercostal Muscles not allowing the Water to extend itfelf outwardly, or the Fingers to feel any Fluctuation (o). But if a Perfon breathes laborioufly, with a Senfe of Weight at the lower Part of the Thorax, when the Trunk of the Body is erect, and towards the upper Part when the Body is horizontal, and feels with all a fenfible Fluctuation while he changes Poftures, there are good Grounds for fuspecting that a Fluid is collected in the Thorax ; and, if no Symptoms of Inflammation and Suppuration have preceded, we may justly conclude this Liquor to be Water; and there will be the greater Probabi-

(o) See Reimmannus's Differtation on the Uncertainty of the Signs of this Difeafe, in Act. Phys. med. a. n. c. vol. i. obf. 170.

lity

lity of this being the Cafe, if at the fame time the Patient makes but a fmall Quantity of Urine, with a lateritious Sediment, and hath œdematous Swellings of the Feet, or other Parts of the Body.

122. When one Cavity of the Thorax only has Water in it, the Patient lies generally on that Side, the Breathing becoming more difficult when laid on the other; and if, on comparing the two Sides of the Breaft, the affected one is larger than the other near to where the Diaphragm is fixed (p), there is

(p) The Swelling of the lower Part of the Thorax, is a Symptom that fometimes, though but feldom, attends this Difeafe. I have feen a confiderable Number of People who have died with Collections of Water or Pus in the Cavity of the Thorax, but I never but once could obferve any external Swelling from the Liquor contained in the Cavity of the Thorax itfelf: We have many Examples of it among the Obfervators, one in Willis Pharm. ration. p. ii. fest. 1. cap. xiii, and two in the Histor. morbor. Uratistav. 1699, 1700. one quoted from Fonseca: ibid. de hydrop. pett. cap. i fest. 7. and one in Med. Espays, vol. v. art. 59. Reasfon

Reafon to conclude that Water is collected in the enlarged Side.

123. I do not know if it is always accompanied with that Symptom which *Riverius* mentions as a fure Pathognomic, viz. "That "the Difficulty of breathing is increased when "the Patient lies down to fleep, and grows "worfe duting the Night, becoming milder "with the Day (q); or if the Scrotum be-"comes hydropical before the Belly or "Limbs (r)." I never obferved these Symptoms

(q) "Quibus hoc unicum addere licet, tanquam pa-" thognomonicum, & quo folo hydrops pectoris a cœteris " difficultatis refpirandi fpeciebus diffinguitur. Quando " nimirum fpirandi difficultas primo quoque fomni tempore " invadit, eumque intercipit, ac per noctem magis urget, " procedente vero die fenfim lentefcit." *River. Prax. med. lib.* vii. *cap.* 5.

(r) "Id vero notatu digniffimum eft, quod fcrotum in
" hoc hydropis genere attollatur in tumorem, antequam
" vel venter vel pedes intumefcant. Neque enim femel
" fed

toms myfelf, nor have feen them generally mentioned as conftant and peculiar to this Difeafe.

124. Diaphoretics, Corroborants, and Purgatives, are very useful in this Species of the Dropfy; but Emetics, if the Patient can bear them without Danger of being fuffocated during their Operation, are much more beneficial. Diuretics (s) fometimes make a Cure : for

"fed iteratis vicibus deprehendimus, quod jam tumido "fcroto pedes cedematofo tumore corripiantur." Hift. morbor. Uratiflav. 1699, 1700. de hydrop. pector. cap. 1. fect. 8.—See fuch a Cafe in Hoffman, where the Scrotum fwelled and not the Abdomen : de hydrope, obf. 7.

(s) R. Rad. feil. gr. v. pulv. ari. comp. gr. x. zinzib. gr. v. fyrup e cortice aurant. q. f. ut fiat bolus; talis bis die devorandus.—vel R. Confect. cardiac. fcrup. i. fal. fuccin. gr. v. ol. stillat. juniper. gutt. ii. misce. Capiat dosin. bujusmodi ter vel quater die.—vel R. Ciner. genist. fcrup. i. vin. amar. unc. ii. misce. Haustulus talis quater die repetendus.—vel R. Aq. mentbæ unc.i. lixiv.tartar. drach.dimid. syrup. zinzib.unc.dimid. misce. Propinet haustulum talem mane & vespere.—vel R. Tinct. flor.

for the Kidnies being free from Compreffion, permit the Water to pais off more freely than

flor. martial. drach. fs. aq. menth. piper. unc. i. fyrup. e cortic. aurant drach. ii. capiat ter die.—vel R. Baccar. juniper. unc. ii. contuf. affunde vin. rhenan. unc. xii. flet. per tres dies, & colaturæ adde aq. raphan. comp. unc. i. capiat unc ii. ter vel quater. die. —vel R. Fol. cochlear. horten. nafturt. aquatic. baccar. juniper. fingul. unc. ii. tartar. lixiv. unc. i. infunde per quatriduum in cerevif. veter. lib. v. dofis eft ad lib: fs. die. —vel R. Summit. H. abfinth.virid. genist. ana unc.dimid. rad. gentian. drach. ii. infunde per bidiuum in aq. fontan. fervid. lib. i. colaturæ capiat. unc. iii. mane & vesperi.

The Emperor Maximilian II. found great Advantage from these Sort of Medicines: he laboured under a Dropfy of the Breast for twenty Years, and used to make sometimes fix Pounds of Urine in a Day, which always relieved him; at last the Passage by the Kidnies having been stopt, he was suffocated. Sennert. prast. lib. ii. p. 2. cap. xx.

I had the following Cafe from Dr. Fothergill: A Gentleman of a frefh Complexion, full, lax habit, and a large Make; in Refpect to Liquors, for the moft Part, temperate, with a good Appetite, and ample Means of gratifying it; about the fifty-fixth Year of his Age, perceived, upon a little unufual Motion, an Obftruction to his Breathing, attended with a Palpitation of the Heart.

Thefe

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than in the Dropfy of the Belly. Iffues and Setons in the Interffices of the Ribs, are known to

These Complaints gradually increased fo much as to induce him to confult his Phyfician, to whom he gave the following Account.

That on walking one hot Day, after having fpent an Hour or two in Bufinefs, in a Room crowded with Company, he found fuch an uneafy Straitnefs of the Wind-pipe, just above the Sternum, that it feemed as if a Bur, as he termed it, fluck there, and hindered him from breathing with his ufual Freedom; that at Night, upon going to Bed, he had a Palpitation of the Heart, and a greater Difficulty in finding fuch a Pofture as he could lie in with Eafe, than he had before experienced.

It was not every Night he found himfelf thus afflicted : fometimes he had three or four bad Nights fucceffively, in which he was either obliged to fit up moft Part of the Night, or altogether prevented from fleeping when able to keep in Bed.

Things had continued in this Situation fome Months. His Countenance was then fresh and florid ; his Breathing upon Motion fomewhat laborious; he coughed but little, and this rather voluntarily, to fetch up fomething, that to him feemed obstructing the Wind-pipe, than from an Irritation of the Lungs themfelves. His Pulfe was extremely N irregu-

to have done remarkable Service in the various Difeafes of the Breaft.

125. When

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irregular, never beating five Strokes alike, but varying inceffantly, either in respect to Frequency, or Strength, or both ; his Urine was high-coloured, depositing for the most Part a copious Sediment, of a Colour betwixt the Lateritious and Carnation; his Stools regular in every Refpect; he found himfelf commonly eafieft when Lax; and his Breath laborious if ever fo little Coffive. He had no Heat, Thirst, dry Tongue, or any Symptoms of a Fever, except a high-coloured Urine, which was accounted for from its being in finall Quantities. No peripneumonic Symptoms, except laborious Breathing; no Appearance of a humoral Afthma; nor was it apprehended that a convulfive one could produce just fuch Appearances, especially as the Irregularity of the Pulle was not lefs when the Breathing was free and easy, than when it proceeded to fuch a Pitch as to oblige the Patient to rife out of Bed at Midnight to avoid the Danger of immediate Suffocation.

As the Patient had lived in fuch a Manner as might feem to have intitled him to the Gout, and he was then at an Age when the first Attacks of this Difeafe are most commonly irregular, this likewife was taken into Confideration; though the constant Irregularity, of

125. When the means above proposed fail, the only Method left is to make an Aperture into

of the Pulfe rather feemed to indicate, that fomething more permanent was the Caufe than the gouty Matter, which, whenever it attacks these unfuspected Parts, most commonly allows of fome, though oft uncertain and fhort Vacations. After moderate Evacuations, by bleeding and purging, were first premised, a Course of Gum Pills, Extract of the Bark, Chalybeats in very fmall Dofes, was recommended, with fome Balfamics intermixed. No Increase of the Symptoms being observed from this Method, it was perfifted in fome Time; the Air and moderate Exercife on Horfe-back proposed, and a due Regard to Quantity as well as the Quality of Aliments. A longer Truce feemed to be gained by this Method than had been perceived from the first Attack ; but as the Winter approached, this Calm was often interrupted, frequently without any manifest Caufe; the Patient being often obliged to rife after he had been an Hour in Bed, and fpend the remaining Part of the Night. This foon brought on an œdematous Swelling of his Legs, Heavinels by Day, Inquietude by Night, and the evident Syptoms of an hydrops pectoris.

N 2

By

into the affected Side of the Thorax, which has frequently been done with Success (s); this

By the Use of the following Remedy, viz. R. Sapon. venet. fcrup. i. g. ammon. gr. x. pulv. fcillar. ficcat. gr. iv. fyr. fimp. q. f. f. bol. fumend. 6ta q. b. near a Gallon of Urine was discharged in one Night, which leffened the Dispnea, abated the anafarcous Swelling that had fpread even to his Hips and Belly, enabled him to continue quietly and eafily in Bed thro' the Night, and gave him and every one about him Hopes of a fpeedy Amendment. He enjoyed this Tranquillity a Month or fix Weeks, the Irregularity of his Pulfe neverthelefs continuing, though remarkably lefs after this Evacuation of Urine; once he feemed during Summer to have acquired firm Health, his Pulse becoming fomewhat less intermittent, and the other Symptoms difappearing ; but this was only a longer Interval than ordinary. The returning Winter brought with it his former Complaints; and though Fontanels, Blifters, Diu etics, Purgatives, and Corroborants intermixed, were tried, under the Direction of fome of the ableft Perfons of the Profession, his Diforder increased, and he was at last fuddenly fuffocated by the Load of Water in the Thorax.

One Thing may be neceffary to remark in respect to the Use of Squills, which is, that when ever one would give them

this Perforation fhould be made above the Place commonly recommended, the Diaphragm

them as Diuretics, the proper Dofe feems to be that Quantity which will not produce a Nausea, at least a lasting one. And though, in the Instance before us, four Grains of the Powder gave the Stomach no Offence, yet in most People one Grain and a half, or two at most, will produce this Effect. This Remark of the Doctor's is just, for although some People's Stomachs will bear eight or ten Grains without nauseating, yet, in general a few Grains produce either the Effects he mentions, or a purging.

(s) Phyficians rather feem too cautious about ordering this Operation both in Dropfical and in Phthifical Cafes. It can be performed with the greateft Safety to the Patient, and I am perfuaded that if it was attempted oftener, the Lives of many would be preferved who die fuffocated with Pus or Water.

See in my Account of the Diseases most frequent in the Military Hospitals in Germany, page 118. the Case of a Soldier who died of the Hydrops Pectoris, but whose Life would, in all Probability, have been preferved, had he allowed the Operation to have been performed which was repeatedly proposed to him.—In Willis we have the Case of a young Man, who from too much Exercise fell into a Dropsy of the Breast; his left Side swelled, and a Number of bad Symptoms appearing, the Doctor ordered an Incision to be made between N 3 the

phragm being connected to Ribs higher than the ninth or tenth.—If the Patient ever had a Pleurify,

the fixth and feventh Rib, to let out the Water ; a Cannula was put into the Orifice, and the first Day there were about fix Ounces of a thick white coloured Liquor, like Chyle, let out ; the fecond, about as much ; on the third, the Liquor run off too freely, and the Patient became faint and feverifh, on which Account the Doctor allowed, no more to be let out for two or three Days after, and then but a small Quantity every Day. By this Method the Patient began to recover his Health and Strength, fo that he could at last ride and take his usual Exercise. All this Time he had but very few Medicines, only after the Operation, fome gentle Cordials, an Anodyne, and vulnerary Decoction were given. In a few Months the Patient thought himfelf guite recovered, and took out the Cannula; but the Wound was no fooner healed than his Difeafe returned, and he was obliged to have a new Aperture made, and the Cannula put in again; he foon got well, but was obliged to keep the Cannula in ever after. Pharm. ration. p. 2. feet. I. cap. xiii. de bydrope pectoris .- A Woman about thirty Years of Age, labouring under both an Afcites and Dropfy of the Breaft, was cured by letting out the Water first from the Abdomen, and then from the Thorax. After the Operation fhe was twice purged, took an

Pleurify, or other acute Pain in that Side, the Aperture is not to be made near the Seat of the

an Opiate Morning and Evening, and for fome Time after observed a very ftrict Regimen of Diet. Memoir. de l'Acad des sciences, 1703 .- Morand, in a Cafe which appeared defperate, put a Trocar into the Thorax, and let out fix Pints of Water; after the Water there came away fome Pus. Seven Days after, the Difficulty of Breathing increafed, and he performed the Operation of the Empyema, and there was discharged from the Thorax five Pints of Water, and a Quantity of Matter; after this the Patient recovered daily. Mem. de l'Academ. de Chirurgie, tom. ii. p. 547 .- Van Sweiten quotes Bianchi for having performed this Operation with Success. Comment. in fect. 1219. Boerbaav. Apborism.-Monf. de Senac. in his Traité de Cœur, gives an Account of a Groom in the King of France's Stables, who after a Pleurify was feized with fuch a Difficulty of Breathing, that he feemed as if he could not live four Hours, when Dr. Senac ordered the Operation of the Empyema to be performed. There was let out by the Orifice fix Pints of a clear yellow watery Liquor, with an immediate Relief to the Breathing. The Wound continued to difcharge for fome Days, and the Patient got well, and was at the King's Hunt at the End of a Month. Lib. iv. Chap. v .- In the fame Place we have an Account of a Man N 4

the Pain, for there the Lungs and Pleura probably adhere; by which Means the Operator, inftead of penetrating into the Cavity of the Thorax, may be in Danger of wounding the Lungs.

126. When the Perforation is made, the Wais to be let out flowly, left the Lungs being too fuddenly freed from Compression, become unable to result or transmit the Blood flowing into them, and the Patient be thereby fuffocated. To prevent this, the Belly should be pressed with a Belt, which is to be gradually drawn tighter, to press the Diaphragm upwards as the Water runs out; and if the Quantity of Water be very great, Part of it only must be evacuated at once. At every Dressing the Air that may rush in should be warmed; for

Man addicted to drinking, who was almost cured by the fame Method. When all the Symptoms were gone but a little œdematous Swelling of his Legs, by the Advice of a Quack he applied Blifters to them, which brought on a Gangrene, of which he died. *Ibid*.

which

which Purpose Vessels filled with warm Water are rather to be used than Charcoal, or any other Substance which emits suffocating or irritating Steams; and when the Orifice is to be dreffed, the Air which entered by the Wound is to be squeezed out by the Patient's Efforts in breathing.

127. The Water being evacuated, the Patient must perfist long in the Use of proper Medicines, especially Diuretics.

DROPSY of the PERICARDIUM.

128. The Dropfy of the Pericardium can fcarce be certainly known till after Death by Diffection; for all the Symptoms of this Difeafe that have been fpecified by the most accurate Physicians are ambiguous (t), and attend

(t) Water is often found in the Pericardium of those People who die of an universal Dropsy. John Cunningham, a Middle

tend other Diseases likewise; for instance, an unequal Pulse, an Uneasiness in lying, a frequent

a Middle aged Man, was admitted into St. George's Hofpital, on the 30th of April, 1759, in the laft Stage of an univerfal Dropfy, and died on the 7th of May. Next Day his Body was opened; the Thorax and Abdomen were both full of Water, and the Pericardium diftended with an acrid Lymph. The Heart was fo fmall that at first we could scarce believe it to be this Organ, its Surface was eroded, and adhered to the Pericardium in fome Places; the Liver was hard, and the Inteffines adhered to one another in many Places .- Peyer mentions a Cafe where there were three Pints of an acrid turbid Liquor in the Pericardium which had eroded the Surface of the Heart. Vid. Scholium. ad cap. vi. Parerg. anatom. & medic .- Bonetus gives an Account of the Diffection of a Man who died of the Dropfy, in whole Pericardium there were found 30 Ounces of Water. Lib. ii. feet. 1. obf. 60 .- In a Patient who died of a Cough and Afthma, the Thorax and Pericardium were full of Water, the Lungs fluffed with a vifcid Matter, and a Number of fchirrous Tubercles and ftony Matter difperfed through their Subftance; and the Liver and Spleen were schirrous. Ibid. obf. 41 .- Pifo tells us of one Jacob Loret, who had long laboured under a Palpitation of the Heart and Difficulty of Breathing, of which he died ; upon Diffection,

quent Neceffity of fitting down, an Oppreffion within the Sternum after Motion, Difficulty of Breathing, attended with a Senfe of Pain and Reftleffnefs, either no Cough at all, or a very moderate and dry one; all which Symptoms become milder, or go off altogether when the Patient is at Reft (u).

129. Could

Diffection there were found several Pints of Water in the Pericardium. De ferof. colluv. fect. 3. cap. ii. obf. 39.

(u) Franciscus Albertinus gives the following Account of this Difeafe: "Hydropem pericardii, qui ex fe ipfo & fo"lus infeftat, hifce indiciis, aliqua faltem ex parte, ab aliis
"vitiis diferiminari, ægrotantium obfervationes & eorum
"extifpicia me monuerunt. Pulfus igitur comparate molles
"potius frequentes, ac parvos fibi adjungere confuevit, ubi
"ftructura cordis five immodice flaccida evaferit, five hic
"illic in fuis fibris inceperit fraceffere, five reftagnans in pe"ricardio humor lentus, five mere aqueus fit. Parvos vero
"frequentiores adhuc, vibratos, ac tenfos, cum fapor ejus
"falinus & vellicans eft, Exiles etiam, celeriores, deficien"tefque, fi tanta humoris copia in pericardio contineatur,
"quanta fere maxima contineri in eo poteft. At ea pul-

129. Could the Dropfy of the Pericardium be difcovered, its Cure may be attempted by the Medicines proposed for the Cure of the Hydrops Pectoris, fect. 124; but it feldom yields to internal Remedies; and it would be a

" fûs inæqualitas aliis cordis vitiis communis eft. Tuffim " quoque vel nullam vel modicam adjunctam habet & fere " ficcam five cum sputis tantum falivalibus. Difficilis in " eo decubitus & frequens refidendi neceffitas vix unquam " incidit ; caque interdum a cibo, potu, animi aut corporis " motu, etiam si in lecto motus exerceatur. Et quamvis " a mediocri quocumque locali motu ingravefcat motus " cordis, ad tremorem accedens, & una cum eo spirandi " difficultas, five potius apnœa, & ad sternum oppressio " cum sensu doloris & jactatione contingat; hæc tamen in " ægroto, ubi moveri defiit & quieti se tradidit, fi non om-" nino, at maxima ex parte evanescunt ; modo ne iis fali-" nis aculeis humor pericardii refertus fit, a quibus irrite-" tur & corrodatur superficies cordis, quem ad modum cam " leviter corrofam in muliebri cadavere confpeximus. Nec " abfimilia fymptomata, licet folem occafione concitatioris " motus ille quoque patiuntur, in quibus non nihil craf-" fiusalicubi, vel quas membraneo vinculo laxe cordi alliga-" tum pericardium invenimus." Comment. acad. Bononienf. wal. i. p. 389.

bold

bold, not to fay a rash Attempt, to make an Aperture into the Pericardium (w):

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(w) Monf. de Senac fays, if this Operation is ever thought neceffary, that we may avoid wounding the Heart, Lungs, and Mamery Artery, by performing it in the following Manner: Thruft a Trocar between the third and fourth Rib of the left Side, at two Inches Diffance from the Sternum; directing its Point obliquely towards the Origin of the Cartilago enfiformis, and keeping as clofe as poffible to the Ribs. Traitê de la structure de Cœur, tom. ii. Livre iv. chap. v. p. 365.

We have, however, Examples of the Pericardium being opened without deftroying the Patient, in the Commerc. literar. Norimberg, 1734, Hebd. 35. fest. 4. Dr. Stork tells us, that he caufed the Sternum to be perforated after a Wound of the Breaft, and let out fix Pounds of Blood diluted with Water. By his Orders alfo the left Side of the Thorax of the fame Man was opened, from which more than nine Poundsof a bloodygelatinous Matter iffued. The Patientlived a Month after the Sternum was perforated, and three Days after opening the Thorax. When the dead Body was examined, a Wound an Inch long appeared in the Pericardium, which contained fome Pus and adhered to the Heart. There was an Imprefion on the Heart, which he judged to have

ASCITES.

130. Water collected in the Abdomen or Belly is called Afcites: the Water here fooner becomes acrid than in other Dropfies, by the Agitation it fuffers in different Poftures and Motions of the Body, by the Mixture of Bile transfuding through the Coats of the Gall-Bladder, and the putrid Miasmata which penetrate through the Intestines (x).

have been a Wound there.---Galen tells of a Boy, part of whofe Sternum was carious, which he ordered to be cut away; and finding part of the Pericardium corrupted, took it away alfo, and left the Heart quite naked; and yet the Boy foon recovered. De anat. administrat. lib. vii. cap. 13.

(x) Du Verney the younger tells us, that the Water of the Afcites is of various Colours and Confiftences. When it is like Citron-coloured Ptifan, a little mucilaginous, of an urinous Smell, and a little falt to the Tafte, it is the leaft dangerous, and the Danger increases as it recedes from these Qualities. Mem. de l'Acad. des Sciences, 1703. See his other Prognoftics in the fame Place.

When

When the Patient is erect, the Water bears chiefly on the hypogaftric Region; but when he lies in an horizontal Pofition it diffends the inferior Region of the Loins, and the Diaphragm bears a confiderable Preffure. The chylopoietic Organs, macerated and foaked in the Water, are weakened and do not perform their Office fufficiently (y), but being irritated by the Waters, or rubbed against one another while they are thus foaked, inflame and grow together (z). The Kidneys being compressed, fecrete but little Urine, fo that the Blood is not

(y) The Stomach and Inteffines being weakened by foaking in Water, and having little Stimulus from the mild juices which the Patient's watery Blood furnishes, cannot enough refift the Rarefaction of the Air they contain, but are often diffended by it to a larger than ordinary Size; on which Account the Ancients mention the Afcites and Tympany as frequently conjoined in the fame Patient.

(z) Whoever has feen many hydropical Bodies opened, must have often observed the Intestines in the Condition here mentioned; and all the Observators are full of such Histories.

free

freed of its fuperfluous watery Liquors, and therefore furnishes Matter to increase the Difease. When the acrid Liquors are absorbed, they create Thirst, Cough, Fever, Inflammations, and their Consequences.

131. The Afcites often takes its Rife from fcirrhous or other confirmed Obftructions of the Abdominal Vifcera, yields to no Remedies whatever, and when the Water is drawn off by tapping is foon collected in as great Quantity as ever.---- When it is occafioned by a lax and diffolved Blood, the Confequence of fome acute Diforder, and there is no confirmed Obftruction, it is fometimes cured.

Afcitical Patients fometimes die fuddenly without any evident Caufe, even when they feern to be in a fair Way of Recovery, and most of the Water is evacuated (a). This ofteness happens where the Afcites is complicated with anafarcous Swellings,

132. In

(a) We meet with frequent Inftances of this in large Hofpitals.—Richard Cowley, a middle-aged Man, was admitted into

132. In this dangerous Difeafe, 1. Internal corroborant Medicines, Purgatives, Diuretics, and Diaphoretics, being applied near the Seat of the Difeafe, have a better Chance of relieving the

into St. George's Hospital, the 20th of December 1758, for an Afcites, attended with anafarcous Swellings of his Legs, which had come about fix Weeks before, from drinking cold Small Beer when he was very hot. He had been cured of a Dropfy in St. Bartholomew's Holpital, about eight Months before .---- He was immediately put on dry Diet, and was ordered eight Grains of the Squill Pills, with two Ounces of the medicated Ale, Morning and Evening ; and a Dole of Jalap and Nitre twice a Week ; by continuing this Courfe, all his dropfical Complaints were removed by the End of January; and he was going to have been difcharged the 3d of February, when he complained of a Pain in his right Thigh and about the Os Ilium, which was relieved by fomenting the Parts with an emollient Decoction, and rubbing with the volatile Liniment ; he had no Fever, and his Pulfe was calm and regular; he died fuddenly the 5th in the Morning. His Body was opened next Day, there was no Water in any of the Cavities, nor any Mark of difeafed Vifcera, except a Firmnels of the Subftance of the Liver, and fome flight livid Spots on the Inteftines; nor was there any Inflammation to be observed about
the Patient than in many other incyfted Dropfies; and, 2dly, the Water can be more eafily and fafely let out than in many other Species of them.

133. As in this Difease the more is drunk the greater is the Thirst, and Liquids increase

about the Thigh or Ilium .- Lancelet Tod was admitted into St. George's Hospital the 14th of December 1763, for an univerfal Dropfy, which at first yielded to no Remedies .--On the 2d of February he complained of a Difficulty of Breathing, and his Pulse was quick, for which Complaints he loft eight Ounces of Blood; on the 4th, his Breathing being eafier, he was ordered a Scruple of Dover's Powder to be taken at Bed-Time, every other Night, in a Draught of warm Sack-Whey, and the Dofe was gradually increased to a Drachm, which fweated him profufely, and at first diminished his Swellings; but that Effect ceasing, he was ordered, on the 9th of March, to take daily two Drachms of the Cryftals of Tartar diffolved in Wine-Whey, and to continue the Ufe of the Sweating-Powder; after taking this Medicine for fome Days, he began to make Water freely, and his dropfical Swellings to diminish daily, and he feemed brifk and lively; but on the 26th of April he died fuddenly; his Friends carrying off the Body we had no Opportunity of examining it.

the

the Diforder; fo, in order to cure it, the fevereft Abstinence is to be prefcribed, and the Thirst must be mitigated or amused by moistening the Fances (b). Friction (c) and Exercise ought to be used as much as the Patient can conveniently bear; and Bandages, put round the Abdo-

(b) Dr. Mead knew two Perfons, who, by long abstaining from Drink, were entirely cured of a fevere Afcites. Monit. Medic. cap. viii.

(c) * * We formerly mentioned that rubbing the Belly with Oil had given Relief in many Cafes, and had cured fome; the following Account (which I had from the fame Gentleman from whom I had feveral others mentioned in this 3d Edition) ferves to confirm its Ufe. A Woman whofe Belly was much fwelled, after taking the following purging Medicines frequently without much Benefit,-R. Pulv. jalap gr. xvi. nitri gr. x. aq. fontan. aq. cinam. fimp. fingulorum drachmas vi. oxymel scillit. drachmas tres, M. was ordered likewife to foment the Belly, and to rub it ftrongly with Oil Morning and Evening; foon after beginning this Courfe, the Swelling of her Belly began to fubfide, and by continuing it for fome Months went entirely away. By the 7th of February 1763, her Menses which had ftopt returned; and the Cure was compleated by her drinking a Gill of an Infusion of the leffer Centaury every Morning.

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men and drawn tighter as the Water is evacuated, have been found of the greatest Service. —Topical Corroborants, and Stimulants, are fometimes of Use, and are even faid to have cured the Disease (d). Emetics (e) are very often

(d) Two People were cured of the Afcites, by a Fomentation composed of Aromatics boiled in Wine, and frequently applied to the Belly. *Misc. cur. a. n. c. dec.* 1. *ann. 3. olf.* 147.—*Pentæus* recommends a Poultice of *Morfus Diaboli*, made by putting the Herb over the Fire, in a dry Kettle, till it is moistened with its own Liquor. This, he fays, applied to the Abdomen and Reins, causes Sweat, and cures the Dropfy. *Philof. Tranfact. abridged, vol. 3. chap.* iv. art. 52.

(e) R. Vini. ipecacoan. drach. x.--- vel R. Pulv. rad. ipecacoan. fcrup. i. tartar. emetic. gr. iii.--vel R. Vin. antimon. unc. i.

"Etenim post duas vel tres vomendi vices per infusio-"nem croci metallorum excitatas, aquæ non tam medicamenti vi secretoria elici videntur, quam ruptis quasi repagulis & claustris referatis pleno alveo effundi, quod satis constat ex earundem eruptione atque impetu sepe facto, inter ipfa vomendi spatia five intervalla. Hoc interim observari velim, quod fi leviusculo aliquo ventris tumore teneatur æger, non ita prompte educun-"tur

OF THE DROPSY. 197.

often beneficial by the Stimulus they give to the abforbing Veffels, provided the Head or Breathing is not too much affected during their Operation. Cathartics (f) repeated as often as the

" tur aquæ per infusionem croci metallorum, ac in ascite " grandiore ubi ingens aquarum copia ad gesta suerit." Sydenham de Hydrope.

(f) R. Pulv. rhubarb.drach dimid. calomel.gr. vi. fyrup. alb. q.f. ut fiat bolus.—vel R. Syr. de rhamn. fefcunc.—vel R. Syr. de rhamn. unc. i. tinet. jalap. drach. i. mifce.—vel R. Pulv. jalap. fcrup. i. calomel, gr. x. mifce.—vel—R. Pulv. jalap. gr. xxv. fal. nitri gr. x. mifce.—vel—R. Pulv. jalap. gr. xxv. fal. nitri gr. x. mifce.—vel R. Gum. gambog. gr. xii. cremor. tartar. gr. viii. zinzib. gr. iv. fyrup. alb. q. f. ut fiat bolus.—vel R. Pil. ex colocynth. femidrach. form. in pil. vi.—vel R. Succi irid. noftrat. fefcunc.—vel R. Tartar emetic gr. x folve in Aq. font. unc. x. & adde Syrup. Rofar. folut. unc. i. capiat. unc. ii. omni bora donec laxeture alvus.—Hæc omnia cathartica fummo mane deglutienda.—Great Variety of Hydragogues have been ftrongly recommended by different Authors, the Elaterium, Decoctions of the inner Bark of the Elder, and, in fhort, almoft all the ftrong Purges of the Materia Medica.

" Id diligenter eft obfervandum, (in Hydragogorum nem-" pe ufu) ut aquæ ea maxima celeritate exhauriantur, quam " ægri vires ferre queant; utpote qui fingulis diebus ex-" purgari debeat; nifi quod, five ob nimiam debilitatem " corporis, five propter præcedentis operationem plus fatis

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" vio-

the Patient's Strength can bear, if they evacuate the Water, are extremely useful; but if they have not this Effect we ought not to perfift in their Use, as tney only exhaust the Strength, without forwarding the Cure; and Sydenbam very justly observes, that they ought to be omitted where the Patient is of a very weakly Conftitution, and with Women subject to the Vapours (g); nor can they well be

violentam, dies unus aut alter intercalari poffit. Etenim
fi non nifi poft longa intervalla repetatur purgatio, quantumlibet copiofa catharfis præcefferit, aquis denuo affatim colligendis anfam præbebimus ; adde quod periculum eft, ne aquarum inter vifcera mora diuturnior eadem putredine quadam fua inquinet, ac inficiat.—Ex re
quoque erit at vefperam opiatum aliquod adhibere ad turbas à purgatione excitatas compefcendas." Sydenham.
Tractat. de Hydrope.

(g) " Eft autem, ubi medicamenta omnia, qualis cum-" que demum generis, quæ alvum movent, prorfus omitti " poffint ac debeant, quoties enim æger conflitutione eft " infirmiori, vel fæmina vaporibus obnoxia, aquarum eva-" cuatio diureticis folum committenda, inter quæ ea funt effica-

be administered where the Afcites is attended with a Purging, which already weakens the Patient too much; in all fuch Cafes Diuretics and Diaphoretics must be mostly depended upon for removing the Diforder. Emetics and Cathartics given in small Doses, frequently repeated, prove sometimes more powerful Hydragogues than larger Doses of these Medicines taken at longer Intervals; for they carry off the Water not only by Stool, but by Urine likewife (h).—.When Purgatives are given, Corroborants and Diuretics may be joined with

efficaciffima, quæ ex falibus lixivialibus fiunt." Sydenham. Procefs. integ. de Hydrope.

(b) R. Oxymel. feillit. drach. 1. fs. aq. cinnam. fimp. unc. i. fpirit. lavend. comp. fyrup. e cortice aurant. fingul. drach. i. mifce. Capiat talem dofin omni quadrihorio.—vel R. Pil. e colocynth. fal. fuccin. fingul. drach. dimid. fyrup. feillit. q. f. ut fiant pil. xviii. capt. iii. bis die.—vel R. Elect. e caffia drach. ix. pulv. rad. jalap. drach. i. ol. stillat. juniper scrup. i. forup. zinzib. drach. iv. misce capt. scrup. ii ter die.—vel R. Elect. lenit. unc. ii. tartar. emetic. gr. xii. coque ex aq. fontan. unc. xvi ad unc. xii. cap. unc. ii. omni hora donec laxetur alvus & cietur vomitus.

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them,

them, and are always to be taken (i) in the Intervals. However, it ought to be obferved that the fame Diuretics will not anfwer in every Cafe, for often one will have a good Effect when another has had none; the lixivial Salts have cured Dropfies which yielded nothing to Squills and Calomel.——Small Dofes of Calomel have carried off Water where thefe Salts had no Effect.—And Squills have anfwered (k), where neither of the other two made any Im-

(i) R. Vin. amar. lib. ii. capiat unc. ii. ter vel quater die. —vel R. Pulv. cortic. Peruv. unc. ii. cort. aurant. unc. i. limatur mart unc. dimid. fyrup. e cortic. limon. q. f. ut fiat electuar. Capiat molem nucis mofchat mane & ve/peri.--vel R. Aq. menth. piper. unc. v. tinct. aromatic. vin. chalybeat fingul. unc. i Js. Syrup. e cort. aurant. unc. i. mifce. Capiat unc. i. horis medicis.

(k) Dr. Savary, Phyfician to his Majefty of France's Marine Department at Breft, in the Year 1760, translated this Effay into the French Language. In a Note to this Chapter on the Afcites he very justly observes, that every judicious Phyfician, when he finds one Class of Medicines fail will try another. He says he has cured several Dropfies

Impression on the Diforder; and therefore where one Diuretic fails, another ought to be tried (l); and the same may be said of Dia-

fies by an Infafion of Juniper Berries in white Wine, which he mixed with an equal Quantity of nitrated Water, and gave three Glafs-full's in the Day; and continued its Use for a confiderable Time, adding from Time to Time five or fix Grains of the Powder of Squills.

He observes that the Effect of this Medicine is much furer in œdematous and anafarcous Cafes than in the Afcites. efpecially where the Difeafe is confirmed, and the Water has been already drawn off by tapping ; tho' he fays that it will often be of Ufe in fuch Cafes, and mentions three Patients whom he cured with it after the Operation of the Paracenthefis had been performed once or twice in each .--The first Patient was a Lad between 15 and 16 Years of Age, whole Belly was of a monftrous Size, and whole Veins were fo much fwelled that he feemed ready to fuffocate ; after a large Quantity of Water was drawn off by tapping, the Wound continued to discharge for a Fortnight; the Belly was fomented with difcutient Decoctions, proper Bandages and Compreffes were applied; and the Patient took the above-mentioned Infusion of Juniper Berries with the Powder of Squills, which increafed his Difcharge by Urine, and he recovered his Health and Strength daily.

phore-

phoretics, which have often done great Service (m).

134. When

(1) In the Notes to Sect. 43. we mentioned it veral dropfical Cafes which were cured by bringing out Sweats.

R. Pulv. anodyn. Doveri, unc. dimid. capiat a gr. x. ad fcrupul. ii. b. s; adde pro re nata fal vol. ammoniac. gr. x.— —vel R. Sal volat. c. cervi, gr. x. opii gr. ii. mithridat. fcrup. 1. m, fiat bolus fumendus cum æger in lectum fe receperit.—vel R. Vin. antimonial. drachm 1. Tinct. Thebaic. fcrup. 1. mifce, capiat fudori accinctus.— vel R. Theriac andromach. drachm. dimid. capiat in lecto, fuperbibendo aq. hordeat. calid. lib. 1. acidulat. cum fpirit. vitriol. fort. gutt. xx. fyrup limon. unc. i. — vel R. Sal ammoniac. vegetabil. fcrup. ii. folve in feri vinos. tepid. unc. viii. & repet. omni dimidia hora ad duas vel tres vices, ut eliciatur fudor. See other Formulae of this Kind in Notes to Sect. 72. c.

Tho' vegetable ammoniacal Salts have long been used in a liquid Form, yet it has been alledged by Macquer and other Chymists, that a folid vegetable ammoniacal Salt, made by the Mixture of the vegetable Acid and the volatile Atkali, was difficult to be prepared; but a beautiful chryftallifed neutral Salt may be eafily obtained by faturating a Solution of the volatile Sal Ammoniac, with the Chryftals of Tartar, and then evaporating the Liquor with a flow Fire till it come to the Confistence of a Syrup, and letting it stand for fome Days in a cool Place; and it is this Salt which I have here called Sal vegetabilis ammoniacus.

134. When the Belly is much diffended with Water, the Patient is not only afflicted with

(A) Mary Nevil, a Woman 48 Years of Age, was admitted into St. George's Holpital, the 29th of August 1759, for an Afeites which had began in November 1758. Her Belly was large, the had a perpetual Drought, a Difficulty of Breathing, could not fleep at Night, and made but very little Water, and that of a high Colour; the was ordered the faline Draughts four Times in the Day; an Anodyne Draught with a Scruple of the Lixivium Tartari every Night at Bed. Time, and a Dofe of Jalap and Nitre twice a Week. By continuing this Courfe the made Water freely, and the Swellings diminithed daily. She was difcharged, feemingly in good Health, the 10th of October. I never faw the Woman fince, but have been told that the continued well for five or fix Months, when, catching a frefh Cold, her Diforder returned, and the died.

Dorothy Perry, a middle-aged Woman, was admitted into St. George's Hofpital, the 24th of October 1759, for an Afcites and anafarcous Swellings of the Legs, which came after a Fever; fhe was ordered ten Grains of the Squill Pills in a faline Draught, Morning and Evening, and a Dofe of Jalap and Nitre twice a Week, which removed her dropfical Complaints in a Month's Time, at the End of which fhe was feized with a Pleurify, which was cured by

with a Difficulty of Breathing and Coughing, occafioned by the Compression of the Diaphragm,

by Bleeding and the antiphlogistic Medicine, and she was dismissed, seemingly in good Health, the 5th of December.

Margaret Gibson, a middle-aged Woman, was admitted into St. George's Hofpital, the 28th of March 1764, for an Afcites attended with anafarcous Swellings of the Legs, which had come about a Month before from catching Cold ; at first the had the Squill Pills Morning and Evening, and Phyfic twice a Week; but these having no Effect on her Diforder, fhe was ordered half a Drachm of the Lixivium Tartari in a Draught three times a Day in place of the Squill Pills; but after continuing this Course for a Fortnight longer without any Change in her Diforder, on the 27th of April the was ordered to lay afide all her former Medicines, and to take two Drachms of the Chryftals of Tartar diffolved in Water in the Day; on the 30th fhe complained of being coffive, and was ordered half an Ounce of the Sal catharticum amarum, and two Drachms of Manna, to be diffolved in fix Ounces of Almond and Emulfion, to be taken occafionally; in about four Days after this the began to make Water freely, her Swellings decreafed daily, and the was difcharged, feemingly in good Health, the 8th of June.

** A Phyfician of Eminence, whole Veracity may be entirely relied on, told me that an Aid-de-Camp of the late Marfhal

phragm, which prevents the free Paffage of the Blood thro' the Lungs; but the Abforption of the

Marfhal Saxe had affured him, that the Marfhal had been twice tapped for a Dropfy in the Year 1745, and had been cured by the following Medicine : Take three large Handfulls of Broom-Afhes burnt in a fmothered Fire, boil them in four English Pints of French white Wine to two, and ftrain it for Ufe. This whole Quantity was drunk every Morning for fome Time, and brought away a large Quantity of Water by Urine, and with it a great deal of Slime mixed with Water.

** The fame Gentleman, gave me the following Account :—In July 1756, a Dragoon of the 10th Regiment, after drinking cold fmall Beer when very hot, became dropfical; he was tapped, but only a fmall Quantity of Water came away. He began to fwell again, when the Surgeon of the Regiment gave him 15 Grains of Quickfilver, killed in Balfam of Sulphur, every Night at Bed-Time, and twelve Grains of Rhubarb next Day. These Medicines kept his Belly open, proved strongly diuretic, and removed all his dropfical Complaints. He lived in good Health for three Years after, but then relapsed and died.

See Examples of the Effects of these different Classes of Medicines in Notes to Indication I. and II. of Part I.

the dropfical Water (the only Cure of this Difeafe) is extremely diminifhed, or ceafes entirely. On these Accounts it is neceffary to let out the Water by Tapping, tho' few who have undergone the Operation have obtained a complete and lafting Cure, but have been subject to Relapses (n).

135. The Place to be chosen for the Paracenthesis or Tapping is the middle Point between the Navel and the upper anterior Spinal Process of the Os Ilium, where there is neither too great Thickness of the containing Parts, nor any Tendon, large Vessel, or Nerve, in Hazard of being wounded, and the Water can easily run off (o).—If a small Incision thro' the

(n) " Deinde, ut inde cæperit, tamen aqua nifi emittitur, " quæ contra naturam ibi fubftitit, & jocinori & cœteris " interioribus partibus nocet. Convenitque corpus nibilo-" minus effe curandum. Neque enim fanat emiffus humor, " fed medicinæ locum facit, quem intus inclufus impedit." Celf. lib. iii. cap. 21.

Skin

Skin is first made with a Lancet, where the Perforation is intended to be made with the Trocar, the Instrument pierces with much less Force than is otherwise required; and this ought always to be done previous to the Operation when there is but little Water in the Belly, in order that the Danger of hurting any of the Viscera may be avoided.

136. The Ancients observing, that Patients who were tapped were liable to fall into fainting Fits, and even to the Hazard of Life itself, when much Water was let out at once, imagined these Symptoms were owing to the animal Spirits flowing out with the Water, and therefore drew it

(a) The common Directions of Tapping four or five Inches below the Navel, and as much to one Side, become very precarious, and of confequence often dangerous when the Belly is diffended with Water; fince a Point thus defcribed muft vary according to the different Degrees of Diffention of the Belly.—See thefe Reafons more fully explained, the neceffary Directions about the Manner of performing the Operation, and the Defcription of a Belt proper to be ufed, in Med. Effays, vol. i. art 18.

off

off at different Times (p), that too much might not be wafted at once; but Dr. Mead fully (q) demonstrated in 1705, that these Appearances depended entirely on the Preffure made by the Water on the furrounding Parts being too fuddenly removed; and proper Bandages have been fince contrived to remedy this Inconvenience. For by these Means the fame Preffure can be kept on the Belly, during and after tapping, as before the Operation : in determining which, the greater or less Difficulty of Breathing ferves as a fure Criterion (r). The general

(p) "Per hanc (nempe fiftulam) effundendus humor eft: " atque ubi major pars ejus evocata eft, claudenda demiffo " linteolo fiftula eft; & in vulnere, fi id uftum non eft, re-" linquinda. Deinde per infequentes dies circa fingulas " heminas emittendum, donec nullum aquæ veftigium ap-" pareat." *Celfi lib.* vii. *cap.* xv.

(q) See Mead. monit. med. cap. viii.

(r) I have more than once feen the bad Confequence of not obferving this Precaution of keeping a proper Compreffion on the Abdomen in the Time the Water is letting out, by

general Practice now is to let out all the Water at once; by which there is lefs Danger, than by the old Method of Gangrene in the Orifice made in the Teguments; or of a Tympany, by Want of Compression on the Intestines; or of the remaining Water macerating the Bowels, or becoming acrid, and eroding them by the Admission of Air into the Cavity of the Abdomen.

If the Matter contained in the Abdomen is either too thick to flow through the Cannula of a Trocar, or if Hydatides be mixed with the Water (s), the Orifice is to be enlarged by an

by the Patient's falling into a fainting Fit; and afterwards, when the Water has been again collected and let out, it has been tinged with Blood, owing to the want of proper Comprefion at the former Tapping.

not volded when it

(s) See the Cafe of a middle-aged Man, who was tapped for a Dropfy of the Belly, but the Liquor being too thick to pafs through the Cannula of a Trocar, an Incifion was made into the Abdomen, through which, in two Days, P tweive

an Incifion wide enough to let out the extravafated Liquors. Or if the Abdomen happens at any Time to be preternaturally divided into two Cavities by the Concretion of any of the Vifcera to the Peritoneum (t), and both are full of Water, both must be tapped.

137. In order to prevent the Return of the Dropfy after tapping, it has been proposed to inject fome aftringent Liquor into the Cavity through the Cannula immediately after the Wa-

twelve German Measures of a thick gelatinous Liquor, mixed with a Number of Hydatides, some as big as a Hen's Egg, some no bigger than an Ant's, were evacuated. Philosoph. Trans. No. 370. sect. 4.

(t) See fuch a Cafe in the Medical Effays, vol. iv. art. 30. where the upper Part of the Omentum had grown all round to the Peritoneum, and thereby formed two Cavities in the Abdomen; from the upper one of which the Water was not voided when it was let out of the lower one by tapping.

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ter is all let out (u); or to caufe fuch a Liquor to enter by one Pipe of a double Trocar, while the Water is running out at the other (w); but there have not yet been fuffici-

(11) Mr. Christopher Warwick, Surgeon at Truro, relates the Cafe of a Woman (Jane Roman) into whofe Abdomen he injected a large Quantity of Liquor made with two-thirds of Claret and one of Briftol Water mixed together, after extracting by the common Operation of the Paracentefis thirty fix Pounds of a greenish transparent Lymph : and a Relapse was prevented by these Means. When a large Quantity of the Injection was in her Belly, a pungent Pain poffeffed her Breaft, frequently darting through all the Vifcera, her Breathing became extremely difficult, her Pulsefaultered, fhe fell intoSyncopes, and became speechles. Philosoph. Trans. No. 472. Sect. 3 .- Brunner proposed that Tincture of Myrrh and Alloes, with camphorated Spirit of Wine, fhould be injected into the Belly, to prevent the Return of the Afcites. Mife. Cur. a. n. c. dec. 2. ann. 8. Jchol. ad obf. 100. But this would furely be too acrid, as we may judge from the Effects just now related of a much milder Liquor, the Claret and Briflol Water, and from the violent Inflammation which Spirits thrown into the Scrotum railed.

(w). This is the Proposal of the ingenious Dr. Hale. Philof. Transf. No. 472. fest. 4.

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ent Trials made for determining how far this Method may be depended upon.

138. After the Water is drawn off by tapping, the Stomach and Inteffine, having lefs Affiftance than formerly from the Muscles of the Belly, which do not immediately recover their Tone io as to prefs with fufficient Force on those Bowels, generally are inflated, and the Patient is affected with Anxiety, Gripes or Spass. When these Symptoms come on after tapping, or after the Operation of Emetics or Purgatives, the most effectual Remedy is an Anodyne, which under these Circumstances generally becomes a powerful Diuretic (x).

(x) R. Aq. menth. piperit. fimp. unc. i. cinnamon fpir. unc. dinid. tinct. caftor. drach. i. tinct. thebaic. gutt. xi. tartar. lixiv. fcrup i. fyrup. alth. drach. i. misce pro haustu vespertino. vel R. aq. menth. fimp. unc. i. menth. piperit. spir. unc. dimid. tinct. thebaic. gutt xl. vin. antimon. gutt. 1. fyrup. ex. althe. drach ii. cap. h. s.

139. When

139. When the Diforder has originally begun with anafarcous Swellings, and the Afcites is complicated with the Anafarca, fometimes Scarifications or Punctures made in the lower Extremities will ferve to evacuate the Water (y) from the Abdomen ; for when the Water of the cellular Membranes which compressed the abforbent Veins of the Peritoneum, and prevented them from performing their Office, is discharged, then these Vessels, if in a found State, foon take up the extravafated Fluids lodged in the Cavity of the Abdomen.

140. After the Water is evacuated, the Patient must perfist in the Use of those Medi-

(y) See a remarkable Inftance of the Cure of an univerfal Dropfy effected by Scarifications and Punctures, and the Use of the laxative mercurial Pills and Diuretics after the Operation. Edin. Physic. & Literar. Essays, vol. ii. Art. 32. and several Instances of the same Kind in La Motte's Traité de Chirurg. complete, tom. ii. observ. 119, and in other Authors.

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cines

cines which promote the natural Secretions, and carry off the hydropic Water, for there is always Danger of a fresh Collection being formed (z).

141. If

(z) Van Sweiten mentions a Cafe from the Mem. de l'Acad. des Sciences, 1703, p. 175, of a Girl twenty Years of Age, who had an Afcites for three Years; fhe was tapped three Times, and between four and five Pints of a flimy black Water drawn off each Time. After the third tapping the was ordered a Decoction of Urtica, Iris, and the Acetofa rotund. foli. which proved a ftrong Diuretic, and half the Water fhe made was flimy and black, refembling what had been brought away by tapping. She recovered her Health, was married, and had Children .- A Woman thirty-fix Years of Age, ill of an Afcites, which had come from a watery Tumor of the Abdomen burfting into its Cavity, was thrice tapped, and from the laft Time the Operation was performed the began to recover, and in fome Time brought forth a healthy Child. By computing from the Birth of the Child, it appeared that fhe was three Months gone in her Pregnancy before the Paracentelis was first performed, of which she had no Suspicion herfelf. See Edin. Medic. Effays, vol. vi. art. 64 .--A Lady

141. If the Obstructions should be removed, the Corroborants and other Remedies formerly mentioned in Sect. 51. should be employed to strengthen the Patient, and prevent a Relapse.

142. In People who have the Afcites, and at the fame Time are afflicted with the true Hernia, the Water commonly makes its Way into the Hernial Sac, to form either a Hydrocele or Hydromphalus, according to where the Hernia is ; and frequently where there is

A Lady, fifty Years of Age, labouring under an Afcites, for which fhe had been thrice tapped, and taken many purgative and diuretic Medicines without Effect, was advifed to take every Morning and Evening a Spoonful of unbruifed Muftard Seed, and to drink after it a Pint of a Decoction made of the Tops of Broom. In three Days fhe was fenfibly relieved, the Medicine purged her fometimes for two or three Days, and made her pafs, at leaft, between two and three Quarts of Urine every Day. She perfifted in the Ufe of thefe Medicines, and was cured without a Relapfe. *Mead. Monit. medic. cap.* viii.

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no Hernia the Preffure of the Water in the Abdomen occasions analarcous Swellings of the Scrotum in Men, and at other Times the Water in the Belly diffends the Navel (especially of Women) into a watery Tumor.

143. These Appendages of the Ascites (if they may be so called), when they have a Communication with the Water in the Abdomen, may be emptied either by, 1st, Tapping the Belly in the common Part, or, 2dly, by making a Puncture with a Lancet or a Trocar in the most depending Part of the Tumor, when the fame (a) Precautions are to be observed as after the common Operation of the Paracente-

(a) Riverius gives a Cafe of an Afeites accompanied with the Hydromphalus, where the Patient was cured by letting out the Water at the prominent Navel. Obf. commun. a Formio, obf. iv.—A like Cafe is related by Du Verney Mem. de l' Acad. des Sciences, 1702.—See a Number of Cafes of the Hydromphalus in Bonetus and Schenkius, and of Cures faid to follow the burfting of the Navel. Mead. Monit. Med. cap. 8. Medic. Effays, vol. iii. Art. 28. Mem. de I, Acad. des Sciences, 1723, p. 583.

fis,

fis, with this Addition, that a Gangrene is here more to be apprehended by the fudden collapfing of the Teguments, and therefore the Corroborants prefcribed in Sect. 72. a. ought to be diligently made Use of. Sometimes the Shin of the Navel or Groin is burst by the distending Water; in which Cafes it is to be treated as if an Incision had been made.

144. The Hydrops Afcites Siccus, or Tympany, accompanying the Afcites, is no other than what was mentioned in Sect. 130. Note y. And when it is feen without a Dropfy, is not a Difease caused by Water, and therefore no Part of my present Subject (b).

DROPSY

(b) Mr. Littre, in the Memoirs of the Academy of Sciences at Paris, for the Year 1713, affirms that the Air in this Diforder, the Tympany, is always confined within the Cavity of the Inteffines, and is never lodged within the Cavity of the Abdomen; and hence, although the true Tympany

DROPSY between the TUNICA VAGINALIS and TESTIS.

BILL CHARGE STANDER PRO

145. Water collected between the Vaginal and proper Coat of the Tefficle, binders the Tefficle

Tympany is fo often mentioned by the Antients, and we have feveral Cafes of it related by the Moderns, fome Practitioners have begun to doubt of its Exiftence. The following Cafe is a Proof that it is fometimes to be met with. On the 12th of March 1757, I was defired to be prefent at the Opening of the Body of a Woman (Mrs. Miller) in Swallow Street, who had died about fourteen Days after Child-birth. The Abdomen was fwelled as much as if the had been in the laft Month of her Pregnancy, and felt as if it was filled with Air. A long Incifion was made with Care through the Skin and Muscles quite to the Peritoneum, and then a fmall Puncture was made through it on the left Side of the Navel; immediately fuch a vaft Quantity of feted Air rufhed out through the Orifice, as obliged us to open all the Windows of the Room in which the Corpfe lay, and the Swelling of the Belly fubfided entirely. The Blade of a Pair of Sciffars was then put into the Puncture, and the Integuments being

Tefticle from being felt, by which Circumftance this Kind of internal Hydrocele is diftinguished from the others.

146. When

ing raifed up f om the Inteffines, one Incifion was made down to the Pabis, and another up to the Cartilago Enfiformis. The Operator finding the Integuments every where free from the Inteffines on the left Side, made a crofs Incifion from the Navel down towards the Quadratus Mufcle of the Loins. Having now a full View of the Cavity of the Abdomen, the Inteffines appeared to be of the common Size, and not at all diffended with Air more than common. On the left Side they had here and there a little Rednefs on their Surface, but otherwife feemed to be in a natural Condition; in the right Side they were more inflamed, and adhered to the Peritoneum almost every where between the Ribs and Spine of the Ileum.

We then turned over the Inteffines very carefully, and examined whether we could find any Hole in them, or Fœces in the Cavity of the Abdomen; but we could difcover neither. In the Pelvis there was about three Pints of a clear green-coloured fetid Water. A fmall Quantity of well-concocted, but fetid Pus lay below the Sac of the Colon, and on the Mefentery, below fome of the Folds of the Ileum near it;—the Bladder was much inflamed; —the Uterus feemed to be quite found, and was near twice

146. When

146. When this Difease is recent, especially in young Patients, it is sometimes cured by the

aromatic

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twice the Size of the Uterus Virgineus of an Adult. The Spleen and Kidnies were in a natural State, the Liver had a flight Degree of Rednefs on its lower Parc.

After we had examined every Thing we could without making Ufe of the Knife, an Attempt was made to diffect the Inteffines from the Peritoneum at the Part where they adhered, and a Number of Collections of Matter were obferved, fome on the Outfide of the Peritoneum, and others between the Peritoneum and Inteffines. Very foon the Operator either cut or tore the Coats of fome Part of the Inteffines, and the Cavity of the Abdomen was overflowed with liquid Fœces, which put a Stop to our further Enquiries.

Upon examining into the Hiftory of this Woman, her Mother told us that fhe never had had any acute Inflammation of her right Side, but that for fome Months of her Pregnancy fhe had complained of Stitches and Pains of that Side, attended with Sickness; that the second or third Day after her Delivery, fhe was very severifh and fick, and had swelled in about twenty-four Hours to that monffrous Size we had seen her of.

Was this a true Tympany, arifing from fome very fmall Hole of the Inteffines, which allowed the Air but not the Fœces

aromatic Fumes, and fuch like; Formulæ of which were fet down in Notes to Sect. 72. a. Other difcutient penetrating Medicines (c) have fometimes a like good Effect. During their Ufe the Scrotum must be always well fuspended by a proper Bandage, and repeated Doses of Purgatives should be given.

147. If these do not fucceed, a Puncture may be made into the hydropic Sac with a Lancet to evacuate the Water. Surgeons commonly do this with a Trocar; but it is not so good an Instrument as the Lancet, especially when the Quantity of hydropic Water is small; for there is a greater Risk of wounding the Testicle with

Fœces to país? Or, was the Air generated in the Cavity of the Abdomen by putrid Humours? The first feems to me to be the most probable Conjecture.

(c) R. Rad. bryon. alb. unc. ii. fol. cicut. vulg. recent. manip. ii. misce, et coque in q. s. aq. font. ut stat s. a. cataplasm. cui adde gum ammon. in acet. fort. solut. unc. s. ol. palma drach. iii.

a Tro-

a Trocar than with the Lancet (d). As the Water may be expected foon to collect again, this Method is called the Imperfect or Palliative.

148. After tapping, the Methods of injecting strengthening Liquors (e), or of exciting Inflammation by the Introduction of extraneous

'(d) See in Med. Esfays, Vol. v. Art. 22. a Cafe where a violent Inflammation and Suppuration of the Tefficle was probably caused by the Point of a Trocar hurting the Tefficle.

(e) Dr. G. Monro, taking the Hint from the Method propofed by my Father of curing the Hydrocele by raifing a fmall Degree of Inflammation, attemped to make a radical Cure in the following Manner: having let out the Water of a large Hydrocele that had been often tapped, he injected a little Spirit of Wine into the Scrotum, which raifed fo violent an Inflammation as to bring the Patient into great Danger; but by bleeding the Patient pretty freely, he was at length relieved. He recovered, and has never fince had a Return of the Hydrocele. This violent Inflammation, which the ardent Spirits brought on in this Patient, induced him to try a milder Remedy in the next Cafe that offered; when

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ous Bodies (f), may fometimes be put in Practice, in order to prevent a Return; tho' the Operation to be mentioned in the next Section is in general to be preferred.

149. To make a radical Cure, it is neceffary to open the Tumor by a large Incifion, to cut away Part of the Integuments and Cyft, taking particular Care that the Tefficle do not ftart out at the Orifice, but be retained within the Scrotum (g). If an Hæmorrhage enfues, the

when having let out the Water, he injected fome Claret into the Scrotum, by which Means only a flight Degree of Inflammation was raifed; but it fucceeded to his Wifh by completing a Cure: fince which Time he has made feveral radical Cures by this Remedy alone.—Mr. Sharp had the fame violent Degree of Inflammation follow the Injection of Spirit of Wine. Operat. Chap. ix. Cafe 4.

(f) In Med. Effays, Vol. v. Art. 22. a Propofal is made of exciting Inflammation, after tapping for Water furrounding the Tefficle, by letting the Cannula remain fometime within the vaginal Coat to rub on the Tefficle.

(g) I have more than once seen the Testicle remain out of the Cavity of the Scrotum after this Operation till it was

the proper Means for ftopping it are to be employed (h); after this it is to be treated as a common

was covered with Flefh, and then with a new Skin. Hildanus gives a Cafe of an Afcites where the Scrotum fwelled prodigioufly, and then gangrened and floughed off, fo that the Tefticles were left quite bare and exposed; all the hydropic Water was evacuated this Way, granulated Flefh arole from the Tefticles, and a Callus over that, which ferved by way of a Scrotum: the Patient was quite cured of his Dropfy, and afterwards had feveral Children. Obf. Cent. 1. Obf. 48.

(b) Mr. Jamefon having made a fmall Perforation, with a diffecting Scalpel, into the Scrotum of a Perfon, in order to evacuate the Water of an Hydrocele, about twelve Ounces of pure Blood ran out of the Orifice after the Water was evacuated, without any Pain or Uneafinefs. Next Day the Patient perceived a great Weight and Fulnefs of that Tefficle: an Incifion was then made into the Tunica Vaginalis, and a great Quantity of thick coagulated Blood was difcharged; the Wound was properly dreffed, and the Cure went on without any other Accident; for in three Weeks Time the Tunica Vaginalis grew fo firmly to the Tefficle, that the Patient never had a Return of his Hydrocele. Med. Effays, Vol. ii. Art. 14.-See two other Cafes

common Wound. An Inflammation generally follows, and either a great Part of the Cyft floughs off, or granulating Fleth arifing from its Surface, its Sides grow together, and a Cure is compleated.

150. But if neither of these happen, and the outer Edges of the cut Cyst are likely to concrete so as to leave a Cavity within, the Cyst may be so much irritated as to excite an Inflammation, without which a Cure cannot be made, as the Sac otherwise continues to furnish a constant Supply of Water, which produces a Fistula, or else the Orifice shuts up, and the Hydrocele is soon formed again. The Irritation must, however, be made very cautiously; for it is often followed by violent Inflammation and Fever (i). When Pus is discharged from

Cafes of Hæmorrhages after this Operation in Mr. Sharp's Operat. Chap. ix.

(i) See Cafes of Cures of Hydroceles performed by raifing Inflammation in Notes to Section 164. and in Medical Estays, Vol. v. Art. 22. and the Additions at the End of Q that

from the Cavity, there are Hopes of a Cure; for then granulated Flesh arises from the Cyst to fill it up, or to make its Sides grow together.

151. Of late it has been proposed to perform the radical Cure, by cutting away the greater Part of the Tunica Vaginalis, and then to treat it as a common Wound (k).

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that Volume.—The first three Patients on whom Mr. Sharp performed the Operation of laying open the vaginal Coat of the Testicle in the Hydrocele, were in great Danger from the Fever and Inflammation which came on after it. Operat. Chap. ix.

without which a Cure cannot be

(k) Since the first Edition of this Effay, the late Mr. Douglass published a Treatife on the Hydrocele, in which the cutting away the greater Part of the Tunica Vaginalis, in the following Manner, is recommended as the fafest and best Method of making a radical Cure.

Having laid the Patient in a proper Poffure, an oval Piece of the Skin is to be taken away, beginning a little above the upper Part of the Tumor down to the Bottom, the wideft Part of the Incifion being almost equal to the wideft Part

Preternatural Hydropic Cyfts.

. 227)

152. The preternatural Cyfts formed by watery Collections, were, in their found State, all of

Part of the Tumor; then the Cyft is to be opened by a fmall Incifion, and to be dilated its whole Extent with a Pair of probe pointed Sciffars. After this the Tefficle is to be carefully fupported by an Affiftant, while the Operator feparates the Cyft every where from the Skin, and then cuts it close to the Margin of the Tefficle and spermatic Cord. In doing this, too much of the Cyft fhould not be taken up at once, as it is fcarce poffible to pare it off fo as not to leave fome behind, which by all Means fhould be avoided. The other Side is to be cut away in the fame. Manner, until all the Cyft, excepting what covers the spermatic Cord, is entirely removed. This done, the Tefficle is to be replaced, the Cavity filled up with dry Lint, and a thin Pledget of Tow fpread with digeflive put over it; and the whole Scrotum to be covered with an emollient Cataplasm, and secured with a proper Bandage.

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of them Spaces between the cellular Membranes. For when the Paffages from one, two, or more of them into the neighbouring Cells are ftopped, their Sides being diftended, the Membranes of the feveral furrounding Cells are

The Advantages which Mr. Douglafs alledges that this Method of operating has, are; that by removing the Sac the great Inflammation, Pain, and fymptomatic Fever, which, he fays, attend the common radical Cure till fuch Time as the Cyft floughs off and feparates, are prevented; that a good Suppuration foon enfues without any violent Symptoms; and that a Cure is completed without any Danger of a Relapfe. See his Treatife on the Hydrocele, Chap. iv.

Whether this Method has really fuch Advantages over the common radical Cure, the future Experience of Surgeons must determine.

This Method of Cure is as old as *Celfus*'s Time, and has been proposed in some Cases by some late Writers, as Mr. *Douglas* observes :

"Si fcrotum, & fub hoc protinus vitium eft, nihil aliud quam humor eft effundendus, abfeindendæque membranæ funt, fi quæ eum continuerunt; deinde eluendum id e ex aqua, quæ vel falem adjectum vel nitrum habeat: fi fub media, imave tunica, totæ hæ extra ferotum collocandæ excidendæque funt." Celf. lib. vii. cap. 21.

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brought and preffed together, fo as to form a firm membranous Sac; the more fuch a Sac is diftended, the more Membranes are compacted together; and the longer they continue in this State, the greater Thicknefs and Firmnefs do they acquire. This is the Reafon why the Cyfts of fuch Sorts of Tumors are generally thick in Proportion to their Size and Continuance.

153. What is here faid concerning the Formation of the Hydatides, or Veficles full of Water, will, I believe, be granted in relation to the thick firm ones placed under the Skin; but different Opinions have been formed about those that are often seen upon the Bowels, or found floating in Liquors within them.

154. Some have imagined these Bodies to be diftended lymphatic Vessels; but there has been no Case yet mentioned where they fol-Q_3 lowed
lowed the known Course of the Lymphatics, nor any fimilar Instance produced of any other Veffel in the Body being capable of fo great Diftention. I have feen Hydatides in the Abdomen larger than a common Orange, which is equal in Size to the largest Aneurism of the Aorta, where there was no Rupture of the Veffel, though the Aorta is at least three hundred Times bigger than the largest Lymphatic, and its Coats proportionally ftrong and able to bear the great Diffention. Join to this the Instances of a Number of Hydatides being found floating in Hydropic Waters, Houlton Philos. Translat. No. 381. sect. 3. Ruylch. obferv. anat. chirurg. observ. 65. Smelly's Cases, Collection 8. p. 99. of larger Veficles containing leffer ones, and a Number of those again contained in one large Sac, Act. Petropol. tom. I. p. 379. the Want of a due Force to separate these fupposed diftended Veffels from their Attachments; and we shall readily be convinced that

that Hytatides are not diffended lymphatic Veffels.

155. Ruysch's Opinion of Blood-Veffels degenerating into Hydatides, is what I can form no Idea of; although I can eafily see how Hydatides, when once formed, should by their Preffure on the neighbouring Veffels prevent Liquors from passing through them, and how, if this Pressure continue long, their Sides may grow together, and the Vessels become impervious. See Ruysch. adverf. anat. dec. 2. p. 24. and Thef. 1. a. 2. 1. n. 12.

156. Others have imagined that the Coats of thefe Hydatides were formed by the Particles of vifcid extravafated Liquors attracting one another, and forming themfelves into Pellicles round the hydropic Waters. It cannot be denied that fuch vifcid Liquors are capable of being formed into Membranes; but the Difficulty is to conceive how fuch a Pellicle fhould Q 4 form

form itfelf without any Attachment to the neighbouring Parts, unlefs we fuppofe them first to attach themselves to the Sides of the Cavity, and afterwards to be separated by the Liquors thrown out by the Mouths of the exhaling Arteries (l).

157. Others have been of Opinion, that all those Vesicles or Sacs are formed in the cellular Membranes in the same Manner as we have accounted for them in Sect 152. and either remain fixed to the Part where they originally grew, or are afterwards separated from their Attachments. The immense Distensiity of the cellular Membrane, the easy Separation of its Parts, its evident Formation into Sacs in all incysted Tumors, and its Membranes not

(1) I once faw a large loofe Hydatide, whofe Coats feemed quite inorganic, and were made up of different Layers laid one above another, which from their Appearance I fufpected to have been formed of infpiffated vifcid extravafated Liquors.

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having ramifying Veffels proper to them, leave no Doubt but that this is the Cafe with thofe Hydatides that are found attached to any of the Vifcera, or any other Part of the Body. Nor is the Objection of their Pellicles melting down into a Liquor, conclusive against this Hypothefis; for we fee the cellular Membranes every Day melted down in Suppurations; and if *Haller*'s and *Kaaw*'s Account of thefe Membranes, being originally a glewy Matter, be true, we shall be the less furprised at feeing them melt down in milder Liquors.

158. By this melting down of the cellular Membranes we may account for those Hydatides that are found floating in Liquors; for if Hydatides are once formed any where in the Body, a confequent Suppuration may detach them by diffolving the neighbouring cellular Membranes; nay, acrid, corroding, macerating Waters may eafily produce the fame Effect; and in almost all the Observations concerning

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cerning loofe Hydatides, we find that either there has been a Suppuration, or the hydropic Waters have been very acrid. Indeed in fome Accounts of Hydatides in the Uterus, we do not find it faid that either the Waters were acrid, or that there was any Suppuration; but might not thefe Hydatides have been originally the Cells of a Placenta, which after being feparated had lain in the Uterus, and fallen to Pieces by long Maceration in the Waters. The Obfervations given by *Ruyfeb* of Placentæ compofed of fuch Hydatides, and those of *Mauriceau* fhewing that a Hydrops Uteri is often complicated with Pregnancy, make this Conjecture not improbable.

159. It has been thought difficult on this Theory to give a Reafon why these Hydatides seem sometimes quite inorganic, and to have no Vesfels at all, while at other Times Vessels are seen distributed regularly through their Coats: but I think

think the Confideration of the Structure of the cellular Membrane, together with the Manner in which we have alledged thefe Hydatides to be formed, may account for thefe Appearances. For when only a few Membranes are diftended, where no Veffels, fo large as to be difcerned by the Eye, run in their Interffices, there no Veffels can be feen; but where a Number of Membranes, that have confiderable Veffels running between them, are preffed together, there an organic Structure must plainly appear.

160. The Veffels of the preternatural fixed Cyfts being conftantly diftended by the inclosed Liquor have very little Power of Absorption, and what they do imbibe confifts only of the thinneft Parts of the Fluids, on which Account what remains becomes sometimes of a thicker and more viscid Confistence.

161. Most of the hydropic Cysts near the Surface of the Body are called Hydatides; such

as are formed near the Tendons are commonly named Ganglions; those placed on the Trachea have the Name of Bronchoceles (m); and those that are near to the Glans Penis are known by the Name of Chrystallines; but none of them have any thing peculiar except their Situation. Nor does the Nature of the internal Hydatides differ from that of the external, tho' they have different Names applied to them, according to the Organs in or upon which they are fituated,

162 But as, on account of the various Situation of Hydatides, there are different Remarks to be made concerning the Symptoms and Method

(m) The watery Bronchocele does not occur fo often in this Ccuntry as in fome others; it is faid to be a very common Difeafe among the Swifs, and other Inhabitants of the Alps. Englifh Translation of Boerbaave's Aphor. Note to Sect. 1221.—Some Years ago Mr. Bromsfield extirpated a large watery Cyft, fituated between the Sternomastoideus Muscle and the Trachea of a Woman, and the Wound healed kindly.

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of treating many of them, it is neceffary to confider each Sort feparately.

163. Hydatides are what Surgeons cal circumscribed Tumors, i. e. their Extent can be exactly determined; they yield to Preffure, but when it is removed they return to their former Shape; the Fingers moved alternately on them feel a Fluctuation of their Liquor, but when they are deep-feated this is generally very indiffinct and obfcure ; they feldom are hurtful, except by the Preffure they make on the neighbouring Organs, which are thereby hindered in the regular Performance of their Functions. The Fluid within them having no Communication with the external Air, is not apt to become fo acrid as to deftroy the Bag in which it is contained, and being in itfelf inert and watery, the little of it that is abforbed communicates no bad Quality to the Mass of Blood.

164. Hy-

164. Hydatides are fcarce ever removed by any internal Medicines or by mild external Applications: they have been fometimes difcuffed by ftrong Preffure or Friction, by the frequent Fall of Water from a confiderable Height upon them, or by Epifpaftics (n) applied to the Teguments covering them; but the most certain Cure is by fome of the following chirurgical Operations.

a. By extirpating the Cyft. In this Operation Surgeons commonly put themselves to much unnecessary Trouble, by endeavouring to preferve the Bag entire; for there is less to cut, and more Room for doing it, when after laying bare the external Surface of the Tumor, the Cyft is opened, and the Water let out. After taking the Cyft away in this Manner, the

(n) R. Acet. fort. calefact. q. f. eo madefacta fpongia tumori imponatur.—R. femin. finap. triti micæ panis ana p. ae acet opt. q. f. ut fiat finapifmus hydatidi applicandus.—R. emplaft. commun. cum gummi emplaft. veficat. fingul. drach. ii. fiquefcant fimul leni igne, extend. ad alutam & tumori applica.

Wound

Wound is to be cured in the common Method (0).

 β . If the Extirpation of the Cyft feems dangerous, becaufe of its Situation in the Neighbourhood of large Arteries, Veins, Nerves, Tendons, &c. its external Part only may be cut away, or it may be opened by a large Incifion; and the Growth of Fleich from its internal Surface be procured, either by numerous Incifions made on it, or by efcharotic, eroding, or flimulating Applications, which, by exciting Inflammation, increase Suppuration, and thereby promote the Growth of Fleich to fill up the Cavity (p).

(0) Boerhaave faw a Bronchoce le which reached from the Os Hyoides to the Acromion of the Scapula, cured by Extirpation. Van Sweiten comment. in aphor. fect. 792. Cafes of Hydatides cured in this Way occur daily.

If

(p) The Sac of a Hydatide in the fpermatic Chord being laid open, a large Quantity of Water was evacuated, and the Wound dreffed with dry Lint; fome Days after, as the Serotum and Bottom of the Wound felt callous, red Precipitate

^{7.} If neither of the above-mentioned Operations can be performed, or the Patient will not fubmit to them, a Puncture may be made in the Sac with a Lancet or Trocar, in order to let out the Liquor containe d in it; but if the fmall Orifice heals, a Return of the Tumor may be foon expected by a new Supply of Water; for preventing which it is advifeable, 1. To preferve the Orifice open, that the Water may run out as faftas it collects, and by thefe Means the Sac will be at Liberty to contract itfelf, fo as at laft to

pitate was put into the Sac, and Cauffic was applied to the external Wound, till all the Hardnefs was carried off, and a good Suppuration came on, when granulating Flefh arifing the Wound foon healed, and the Patient recovered, and has been fince, for feveral Years, without the leaft Symptom of a Hydrocele. Medical Essays, Vol. v. Art. 22. —Another Hydrocele of the fame Kind was cured by exciting an Inflammation by Means of a Pipe introduced into the Sac at an Orifice made with a Lancet. Ibid. Fourth Edition, P. 254.—Schenkius cured a long watery Tumor that hung down from a Girl's Throat by laying it open. Obf. lib. iii. de bydrope, obf. v.—A Bronchocele was cured by running a red-hot Iron into it. Zodiac. med. Gall. ann. 2. Febr. obf. ii.

leave

ELLI II

leave no Cavity at all, or but a very fmall one (q).
-2. To inject fome aftringent Liquor that may contract the Orifices of the exhalant Arteries.-3. To introduce fome hard (r) or ftimulating

(q) An incyfted Dropfy of the Abdomen was cured by making an Incifion into it, and keeping the Orifice open for almost two Years, in which Time a Tumor which gave Rife to the Difease was melted down, and the Cyst quite filled up. Memoir. de l'acad. de chirurgie, vol. ii. p. 442.---Two watery Tumors of the Face cured by keeping the Orifice of each open. Medic. Essays, vol. v. art. 30. bist. 2. & 3.

(r) See feveral Examples of Hydroceles cured by raifing Inflammation, in Medical Essays, vol. v. art. 22.—The following Cafe I faw myfelf: A young Gentleman having the Sac of an Hydrocele, where the Water was collected between the Tunica Vaginalis and Tefficle, laid open by Incifion, the Wound feemed to heal very favourably, and was quite cicatrifed in a Fortnight's Time, except a little Hole through which the Gentleman observed that fome Water continued to ouze out, and putting a Probe into it, he found that there was likely to be a new Collection of R Water

mulating Substance into the Cyft, whereby an Inflammation may be raifed, a Suppuration enfue, and the Growth of Flesh be promoted, either to fill up the Cavity, or to make its Sides grow together.

s. Some Writers have proposed to put a Seton through the Sac, that the Water may run off continually through the Orifices (s); but the Event of this Method is very uncertain.

Another

Water formed; upon which, without confulting any Perfon, he put a fmall Tent made of a twifted Waxed Thread into this Orifice, to prevent its flutting up entirely, and went immediately to Bed; having flept fome Hours he awaked with a very fharp Pain and Inflammation in the Tefficle, which brought on a fmart Fever that required very plentiful bleeding before it could be removed. This, however, was fucceeded by a mild Suppuration, and a complete Cure was made, the Cavity foon filling up and healing firmly.

(s) We mentioned formerly two Examples where this Method was unfuccefsfully put in Practice to draw off the Water

 ϵ . Another Method recommended in former Days, was to burft the Cyft with the Stroke of a Mallet; but this cannot be done except when the Hydatide is supported by a firm Bone; and at any Rate such an Operation bruises the Parts too much, for which Reasons it is now laid afide (t).

165. If by any of these Operations the Preffure made on the furrounding Parts by Hydatides be fuddenly taken away, and any of the bad Consequences mentioned in Sect. 48. are likely to ensue, we must endeavour to prevent them by the Methods proposed in Sect. 49.

Water in the Ascites, from Decker's Exercit. pract. circa purgantia, p. 289.

(t) A Hydrocele cured by a Blow on the Scrotum against the Saddle. Med. Effays, vol. v. art. 22. We already mentioned a Dropfy of the Uterus being cured by a Bruise from a Fall. Miscel. curiof. a. n. c. dec. 3. an. 5 & 6. obf. 57.

R 2

BASTARD

BASTARD HYDROPHTHALMIA.

166. Water collected in a Sac formed at the Fore Part of the Eye, either in the Tunica Adnata (u), or Cornea (w), hinders the free Motion of the Eye-lids, and intercepts the Entry of Light into the Eye: but a Collection of Water placed between the Orbit and the Eye thrufts the Eye forwards, and either weakens the Sight, or deprives the Perfon of it altogether.

167. The two former are fo manifest that every one must know them at first Sight; and

(u) See an Example of this in Mif. cur. a. n. c. dec. 3. ann. 3. obf. 3.

(w) Boerbaave gives a Case of such Hydatides on the Cornea, which he cured by Puncture. Prælect. in instit. med. edit: ab. Haller. comment. in sect. 307. instit.

the

the latter is eafily diffinguished from the true Hydrophthalmia, in which the Globe of the Eye is diffended with Water; but the Marks of an Hydatide must be attended to, in order to judge that it is not some other Kind of incysted Tumor.

168. The Hydatides of the Adnata and Cornea are generally cured by a Puncture or Incifion made into them, and by bracing the Parts afterwards with fome of the gentle aftringent or ftrengthening Medicines (x); though those of the Cornea often leave a Dimness of Sight.

169. Cyfts

(x) R. Pulv. facchar. faturn. fal. ammon. fingul. gr. vi. aq. rofar. fimp. unc. xii. m. fiat collyrium.—vel R. Pulv. tut. ppt. drach. i. vitriol. alb. gr. vii. fp. vin. Gallic. drach. ii. aq. rofar. unc. vi. fyrup. facchar. unc. fs. m. pro collyrio.—vel R. Camphor. fcrup. i. folve in tantillo ol. oliv. & adde unguent. tutiæ drach. ii. fiat linimentum palpebris affricandum.—vel R. Flor. rofar. rub. drach. vi. coque ex vin. rubr. Gallic. unc. x. R 3

169. Cyfts behind the Orbit are to be treated as directed in Sect. 164; regard being always had to the tender and neceffary Organ the Eye, near to which they are fituated.

Of the RANULA, or WATERY TUMOR under the TONGUE.

170. Practitioners have given the Name of Ranula to watery Tumors under the Tongue (y): whether this Sort of Tumor be owing to a Diftention of the Duct of the inferior maxillary gland; or be a Sac formed in the cellular Substance by the Spittle escaping from an Opening of that Duct, or some of its small Branches; or an Hydatide from any other Cause,

ad une. vi. colaturæ adde acet. opt. Spt. vin. Gallic. ana drach. ii. m. utetur pro fotu.

(y) See fuch Tumors defcribed under the Names of Barpaxos, Rana, Ranula, and Ranunculus, in Albucafis, Rhafis,

Caufe, I cannot determine from the Cafes I have feen, or the Hiftories of this Difeafe that are related by Authors; none of them having been diffected in any Perfon who died with it upon them (z).

171. The firetching of the Parts under the Tongue makes fuch Patients uneafy, caufes a more than ordinary Flow of Spittle into the Mouth, and renders Deglutition difficult. The Softnefs and fenfible Fluctuation fnew a Liquor to be contained, and the Want of previous Inflammation prevents its being miftaken for a Collection of Pus.

Rhafis, Dodoneus, and others.—From the Nature of the Liquor found in fuch Tumors it may be doubted whether they ought to be confidered as dropfical Diforders, however they have the fame Appearances, and require nearly the fame Treatment as Hydatides.

(z) Calculous Concretions are often difcharged when fuch Tumors are opened; Authors relate many fuch Cafes, and my Brother has feveral Stones which were lodged in fuch Sacs.

R 4

172. If

172. If the Tumor is fmall, the Difcuffion of it may be attempted by Purgatives (a), and the Application of ftimulant and aftringent Medicines (b).

(a) In the French Translation of this Effay there is one Quotation from the Mem. de l'Academ. de chirurg. tom. iii. p. 464. where Monf. Louis is faid to affirm that this Difease always takes its Rife from an Obliteration of the Excretory Duct of some of the falivary Glands, and that it is only to be cured by keeping open after the Operation, a simall fiftulous Hole for the Excretion of Spittle into the Mouth.—And another Quotation from the Journal de Medic. for March 1759, where Monf. Soullier alledges that fuch Tumors are more certainly cured by the Use of repeated Hydragogue Purges, than by any Operation; he adds that he has cured nine Persons in this Way. I do not know that any other Practitioner has tried this Method of Cure.

(b) R. Cort. granat. herb. hyffop. fal. marin. fingul. drach. ii. misce, fiat pulvis tumori applicandus.—vel R. Flor. Balaust. alumin. fingul. unc. s. coque ex aq. fontan. lib. i. fs. ad lib. i. colatura pro lotione utetur. Forrestus fays he has cured several with fuch Medicines, lib. 14. obs. 29.

173. But

LILLING

173. But for the most Part it must be opened to let out the watery or viscid Liquor (c), in doing which Care must be taken not to wound the Vessels situated below the Tongue. —After the Aperture is made a Finger should be pressed along the Course of the sub-maxillary Duct, to thrust out any Substance which may have stopped the Spittle in it; and the Sac is

(c) I have feen three fuch Cafes which were cured by the Operation. Van Sweiten was called to fee a Woman in Rotterdam, who, about nine Weeks before, had accidentally bit her Tongue; a Tumor began foon after to appear below it, between its Root and the Dentes Incifores, and increased to such a Bulk as almost to fill her Mouth, and prevent Deglutition. Both external and internal Medicines had been tried without giving any Relief. He immediately cauled the Tumor to be opened, which discharged a great Quantity of a pellucid tough Liquor, and he ordered her to keep an aftringent Fomentation in her Mouth for fome Days, which completed a Cure in a fhort Time. Comment. in fest. 796. vol. ii. p. 641. My Father met with two fuch Cafes ; and Dr. G. Monro cured another much in the fame Way, but they could not determine either the Seat or the Caufe of the Difeafe.

afterwards,

afterwards to be washed with mild Detergents and Astringents (d), taking Care to keep the Orifice of the Incision open, by putting a Probe, or some substance, frequently into it.

INCYSTED DROPSIES of the BREAST.

174. Watery Tumors in the Cavity of the Breaft, whether formed by the Pleura thruft inwards (e), or by Hydatides attached to any of

(d) R. Spirit. vini Gallici unc. i. aq. calcis unc. iv. mel. rofar. fescunc. misce.—vel R. Alumin. scrup. i. solve in aq. rofar. unc. iii. syr. tolut. unc. i.

(e) *** The following Account was wrote to a Phyfician in Town, from the Surgeon who attended the Patient. Your Acquaintance Mr. —, after neglecting a Cold, was attacked with an afthmatic Complaint, attended with the Symptoms of a Hydrops Pectoris, of which he died. His Body was opened. The abdominal Vifcera feemed to be found, but the Lungs of the right Side had the Appearance of a folid Mafs, and adhered to the Pleura every where round a Sac which contained a Quart, of Water, and feemed to be fituated betwixt them and the Pleura.

Upon

of the Vifcera (f), or in their Subflance (g), may be called Incyfted Dropfies of the Breaft.

175. Such

Upon opening the Body of one who died of the Dropfy, a large Collection of green-coloured Water was found between the Pleura, and the Intercostal Muscles and Ribs; the Water had diffended the Pleura into such a large Cyst that it filled almost the whole Cavity of the Breast. The Pericardium was likewise full of Water. Haller. Opuscul. Pathol. obf. 12.

(f) Rolfinkius fays he has feen Hydatides in the Membranes of the Hearts of People who had been fubject to Palpitations. Bonet Sepulch. Anat. lib. ii. feet. 8. obf. 6.

(g) One of the Invalids at Paris was taken with a flow Fever, and fuch a Difficulty of Breathing, that he was obliged to fleep in an erect Poffure, his Hands and Feet fwelled, and he made but a fmall Quantity of Urine, which had a lateritious Sediment. No Noife of fluctuating Liquors could be heard when he breathed. After lingering for three Years he died; and when his Body was opened, there was no Water in the Cavity of the Thorax, but a Cyft full of Water in each Side of the Lungs; the largeft was about fix Inches long and four broad, and the other about five long and three broad : There was likewife an Hy-

175. Such Cyfts have no Pathognomic Symptoms by which they may be diftinguished from other Tumors and Diseases of the Cheft; for the laborious Breathing, and anafarcous Swellings brought on by their compressing the Lungs and Blood Vessels, may be occasioned by a Variety of other Disorders.

176. If fuch Tumors are any how discovered, then

a. Where the Water is collected between the Pleura and Intercostal Muscles and Ribs, an Aperture ought to be made between the

Hydatide about three Inches long on the Surface of the Liver. Memoir. de l'Acad. des Sciences, 1732, par Mr. Maloet.—A Burgundian Gentleman laboured for feveral Years under an Orthopnea and hectic Fever, of which he died. When his Body was opened, there was Water collected in one Side of the Thorax, and the Lungs were filled with Hydatides, which contained a tough pellucid Liquor refembling the White of an Egg. Bonet. Sepulch. Anat. lib. ii. fect. 1. obf. 36. — See fuch another Cafe, ibid. fect. 2. #bf. 38.

Ribs

Ribs where the Cyft is fituated, and the Water let out at different Times if it is in large Quantity, and to be treated as directed under Sect. 164.

b. Concerning Veficles formed in the Subftance of the Lungs it may be remarked, that Laughing, Coughing, Sneezing, or Vomiting may burft them; in which Cafe the Water flowing out of them, may be voided into the Bronchi and be coughed up (b), or may run into

(b) The Baron Van Sweiten, in his Commentaries on Boerbaaue's Aphorifms, fest. 1220, quotes two Cafes from Torgioni Tozzetti of incyfted watery Tumors of the Lungs burfting, and the Water being evacuated by coughing. The firft was a Noblemen fixty Years of Age, who, after being afflicted with afthmatic Complaints, found, one Day, as if fomething had burft in his Breaft, and immediately fpit up four Pints of a Liquor refembling the White of an Egg, which relieved his Afthma. He relapfed, and had the fame Accident happen to him in fome Time after, but without finding any Relief, and he died. —The other was a young Man, who, after being afflicted with a Weight and Anxiety in his Breaft for eight Days, felt

to the Cavity of the Thorax, from which it may be difcharged by making an Aperture into the Cavity of the Thorax, in the Method propofed when we treated of the Dropfy of the Breaft.——If a large Cyft is fuddenly burft into the Bronchi, the Patient may be fuffocated before he can cough up all the Water.

DROPSY of the MEDIASTINUM.

177. Water in the Mediaftinum caufes an uneafy Senfation of Weight in the Middle of the Breaft. This Weight commonly changes Place according to the Situation of the Body; it is felt near to the Diaphragm in the erect Pofture; it is towards the Spine when the Patient lies on his Back; it

felt as if fomething had burft in his Lungs, and in lefs than an Hour fpit up four Pints of a clear viscid Liquor, and recovered. Prima Riccolta di Osfervaz. Medic. p. 83. oppresses

oppreffes the fore Part of the Breaft when he is prone; it reclines to the Side on which he refts.—As the Oefeophagus, Trachea, and Pericardium are placed in the Middle of the Cellular Substance, in which the Water is contained, the Action of these Organs must be affected by this Diseafe (i).

178. This Species of the Dropfy can fcarce be diffinguished from feveral other Difeases of

(i) Mead fays he has feen Water collected in the Mediaftinum. Mon. Med. cap. viii.—A Woman, upon catching Cold, was feized fuddenly with a Dyfpnea, Weight, and Pain of the Breaft, and a Cough, by which the fpit up a Phlegm tinged with Blood: Thefe Symptoms were at firft relieved by Bleeding, and other Remedies, but on the twenty-firft Day after the died fuddenly. Her Body was opened, and the Mediaftinum found full of a bloody-coloured Serum, which by its Preffure on the Trachea and Lungs feemed to have been the Caufe of the Patient's Death. The Lungs were fluffed with a Matter like Pus, and the left Ovarium was about the Size of a fmall Egg, and of a blackifh Colour. River. Obf. cent. 1. obf. 60.— See another Hiftory of the Difeafe in Bonet. Sepulchret. Anatom. lib. ii. fect. 1. obf. 26.

the

the Breaft, except by the Weight changing Place as above defcribed; but as it always attends the univerfal Anafarca it increafes the Symptoms thereof, and both have the fame common Remedies.

179. If this Difeafe be known, and does not yield to ftrengthening Medicines and the Evacuations proposed in the former Part of this Treatife, there is no other Way of draining off the Water than by opening the Sternum with a Trepan, which is too dangerous an Operation to be undertaken in a Diseafe of whose Existence we can have so little Certainty.

HYDROPIC CYSTS between the containing

Parts of the ABDOMEN.

180. The incyfted Dropfy between the Tendons of the oblique and transverse Muscles of the Abdomen, or between these and the Peritoneum

toneum (k), has the Appearance of common Hydatides (l).

181. The

(k) Authors mention Collections of Water between the Coats of the Peritoneum; but it is a fingle Membrane, and therefore no Water can be collected in its Subftance. The Reafon why Authors talk in this Way is, that the firm cellular Membrane on its Outfide is commonly, tho' improperly called its outer Coat, and it is in this cellular Membrane that fuch Collections of Water are formed.

(1) The Wife of one Flinchius, a Painter, becoming irregular in her menftrual Difcharge, her Belly began to fwell, and increafed to an immenfe Size, and continued fo for feven Years, without any other Inconvenience to the Woman than what was occafioned by the Weight of the Water. When fhe died and her Body was opened, there were 110 lb. of Water between the Folds of the Peritoneum, which were each of them as thick as one's little Finger. Upon opening the Cavity of the Abdomen the Inteftines were found in a found Condition, but the left Kidney feemed bigger than ordinary, and the Fallopian Tubes were fwelled and unperforated. *Tulpii obferv. lib.* 44 obf. 44.—See a like Cafe in Nuck's Adenograph. Curiof. p. 290.—See Hiftories of Cyfts on the Outfide of the Peri-S

181. The Cure is to be attempted by the fame Means, and the Medicines recommended in

toneum in Philof. Tranf. No. 106 and 207-in Mem. de l'aead. des sciences 1707, and in other Collections .- A great Quantity of Water mixed with Hydatides was collected between the Peritoneum and transverse Muscles, about feven or eight lb. of thick viscid Liquor between the Duplicatures of the Peritoneum ; and there was Water also in the Cavity of the Abdomen; for, fays he, this is an example where all the three different Sorts of Afcites were complicated. Mead. monit. med. cap. viii .- Dr. Camper, Profeffor of Anatomy at Franequar, told me that he once faw a great Quantity of Water collected in the tendinous Sheaths of the recti Mufcles of the Abdomen, which were divided into fo many Cavities by the tendinous Interfections of those Muscles .----In a Woman who died when fix Months gone with Child, and who had complained of great Anxiety about her Precordia, and Difficulty of Breathing, the Peritoneum covering the lower Part of the Diaphragm was diffended into a Sac of a furprifing Largenefs, in which were more than 200 loofe Hydatides of different Sizes, fwimming in a flinking purulent Liquor. Act. phyf. med. a. n. c. vol. viii. obf. iii .-- See an Account of a Dropfy between the Duplicatures of the Peritoneum which had been of 44 Years ftand-

in the common Afcites are to be given; but the Methods proposed under β and γ , of Sect. 164. are most to be depended upon. If only a small Puncture is made, or a Pipe is introduced, by which the gross Contents of a Cyst cannot pass, the Orifice ought to be enlarged.

INCYSTED DROPSIES of the BELLY.

182. Hydropic Tumors that project into the Cavity of the Abdomen, whether formed by the Peritoneum thrust inwards, or by Sacs attached to or in the Substance of any of the pendulous Viscera (m), have the Name of Hydrops

ftanding, where Saline Chryftals refembling Nitre, fome as big as fmall Hempfeeds, others fmaller, were found among the hydropic Water. London medical Obfervat. and Inquiries, vol. i. p. 7.

(m) Sennertus quotes a Cafe from Cordæus, where Hyda-S 2 tides

drops Afcites Clausus, or incysted Dropsy of the Belly.

a fmall Puncture is mu

d of flore one 183. When

tides full of a Citron-coloured Water, were found in every Cavity of the Body ; not only in the Abdomen and Thorax, but in the Uterus, Bladder, Kidnies, Pericardium, Liver, Spleen, &c. In fhort, fays he, if the Hydatides had been numbered, there would have been above eight hundred. Lib. iii. p. 6. cap. iii. feet 2 .- Ruyfch opened the Body of an elderly Maid whofe Belly was much fwelled, and full of Hydatides of different Sizes, fome as big as one's Fift, and others no larger than a Hazel Nut; thefe Hydatides were filled with a vifcid glutinous Subftance. Obf. anat. chirurg. obf. 46 .- Bianchi mentions the Diffection of a Man's Body, where all the abdominal Vifcera, the Liver, Spleen, Mefentery, Pancreas, Kidnies, Inteffines, &c. were befet with numerous Hydatides which role very thick one above another for four or five different Strata. Hift. Hepat. tom. i. part 2. cap. iii. fest. ii. p. 139 .- Ruyfeb found a large Bag filled with Hydatides placed above the Stomach, in the Body of a Woman who died of afthmaticComplaints : while fhe lived fhe had a very difficult Refpiration, a confant Fever, and often a Pain in her Stomach. Obf. anat. chirurg. obf. 27 .---- Blancard gives an Account of the Diffection of a Woman whole Stomach was greatly diftendeda

183. When they are not very large they feel like deep feated Hydatides, but when they have

tended, and had numerous Hydatides in its internal Membrane, with a Cyft full of Water depending from the inner Surface of the Pylorus. Prax. Med. p. 3. cap. vii .--An old Woman about fixty; was taken with a violent Pain in her Belly, which began to fwell, and increased gradually for two Years. When the died, and her Body was opened : The Heart was of a great Size, and had a large Polypus in one of its Ventricles; the Lungs adhered every where to the Pleura; in the Abdomen was found a large Cyft which filled its whole Cavity, and contained about 17 lb. of a yellowish Serum : This Sac feemed to divide the Omentum into two ; it had Ligaments and Blood Veffels, and its lower Part adhered to the Sphincter of the Bladder. Ephemer. German. 1742, obf. 94 .- An ignorant Surgeon intending to perform the Operation of the Empyema, for a fuppofed Collection of Matter in the Thorax, perforated into the Cavity of the Abdomen in the right Hypochondrium; a Number of Hydatides came out at the Wound, and the Woman died foon after. When Ruyfch and he opened the Body, there was nothing preternatural to be observed in the Thorax, but upon looking into the Abdomen, the Liver was every where grown to the Peritoneum,

have once increased fo much in Size as to fill the whole Cavity of the Abdomen it is sometimes

toneum, and its whole Subftance composed of Hydatides : Ruysch. obf. anat. chirurg. obf. 65 .- In the great Lobe of the Liver Littre found a large Cavity, in which there was a Number of oval Bodies that contained a vifcous pellucid Liquor. Hift. de l'acad. des Sciences, 1704 .- Morand found in the Body of one of the Invalids at Paris two Bags full of Hydatides, which almost filled the whole Pelvis ; one was about eight Inches long and as many broad, and adhered to the Bladder of Urine ; the other was lefs, and adhered to its Neck. Mem. de l'acad. des Sciences, 1722 .- A Woman, aged forty-four, fometime after fhe was married imagined herfelf with Child; her Belly fwelled gradually: after fome Months her Breafts grew full, and the could fqueeze a whitish Liquor from them, which confirmed her in the Opinion of her being pregnant. After nine Months were elapfed, having no Signs of Labour, the was fenfible of her Miftake, and began to take Medicines; but to no Purpole, for the languished two Years more and died. Upon opening her Belly to fee what her Difeafe was, Mr. Turner found about two Gallons of Water inclosed in a transparent Membrane adhering to the Womb, which upon Examina-

R. B. Barret

times difficult to diffinguish them from the common Ascites.

184. In fuch Cafes they are only to be difcovered by a particular Hiftory of the Progrefs of the Diforder, and a careful Examination of the prefent Symptoms. In thefe Hydatides the Swelling is at first confined to a particular Part, where the Patient generally feels an obtufe Pain and Tension.—The Progrefs of the Diforder is more flow than in the Afcites, and the Swelling extends itself more outwardly.—And the Belly changes its Figure lefs in the different Movements of the Body where they are fixed; but when the Hydatides are moveable or attached to any

Examination proved to be its outer Coat. Philosoph. Trans. No. 207.—See in the Ephemer. German. a Case where a Sac adhering to the Womb contained 112 German Measures of Water. Ann. 1742, obf. 94.—Another had 88 Measures. Mis. cur. a. n. c. ann. 8. obs. 23.

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of

of the pendulous Vifcera, they fometimes feem to fall from one Side of the Belly to the other, when the Patient turns in Bed.—The Refpiration is not commonly fo much affected in walking and going up Stairs as in the Afcites; the Appetite continues better, the Thirft is lefs; the Face and reft of the Body are not fo much emaciated; and the Urine bears a greater Proportion to the Drink, and the Legs do not become cedematous till the Tumor is very large.

In Women 'the menftrual Difcharge continues more regular than in the Afcites; and they fometimes have Children in the Courfe of the Diforder.

185. When the Peritoneum is the Part diftended, the Tumor is always immoveable, whereas the hydropic Cyfts that proceed from the pendulous Viscera fall downwards a little at

at first when the Patient changes his Posture, but afterwards they either grow so large, or adhere so to the Peritoneum, as no longer to shift their Place.—Sacs in the Substance of the Liver (n) or Spleen are not easily distinguished : numerous

(n) Some Years ago a Gentleman 26 Years of Age, was attacked with an Inflammation of his Bowels, which was refolved by Bleeding, Purging, and other cooling Medi-About fix Weeks after he contracted a Cough, cines. which he neglected, till it became very troublefome, and he had the Night Sweats, and all the Symptoms of a confirmed Phthifis Pulmonalis; he then used variety of Medicines and different Regimens, but without receiving any Benefit; and he died in about fix Months after he was first attacked with the Cough .- For fome Time before his Death he could not lie on his left Side; whenever he attempted it he was feized with a violent Fit of Coughing and Vomiting; which made us fuspect that a large Abscess had formed in the Right Side of the Lungs immediately above the Diaphragm. After his Death, his Body was opened; the Lungs were full of little Tubercles, many of which had come to Suppuration, but there was no where any large Abfcefs in either Side of the Thorax,
numerous finall Hydatides difperfed through the Abdomen are difcovered with Difficulty, being fcarce to be diftinguished from Steatoms or fuch other Tumors, as the Fluctuation of Liquors in them is wholly imperceptible thro^{*} the Teguments and Muscles.

186. Under this Head of the Ascites Clau-

Thorax, nor were the Lungs wafted or adhered much to the Pleura. The Abdomen was then opened; the Surgeon on cutting across the Integuments immediately below the fhort Ribs of the right Side opened a Cyft which difcharged a large Quantity of Water; upon dilating the Incifion there came out a loofe oblong Hydatide, which contained above half a Pint of Liquor. The Water which contained this Hydatide had been collected in a Sac formed behind the Gall Bladder, between the Peritoneum and Liver, which had protruded forwards towards the Integuments. The Sides of this loofe Hydatide were made up of a Number of Lamellæ laid one above another, but feemed to have no Veffels nor any organic Structure. We did not obferve any of the other abdominal Vifcera to be. difeafed.

fus

fus may be comprehended the Hydatides in the Ovarium, which are particularly defcribed by Authors, but have nothing peculiar to them; nor is it worth while to enter into a Difpute whether they are formed in the Veficles commonly called Ova, or whether they are only diffended Cells of the cellular Subftance in which the Ova are lodged (o).

187. The

(0) I have feen feveral Bodies opened of Women who died of what were called Dropfies of the Ovaria, and in all of them, befides the larger Veficles which formed a great Part of the Tumor, we obferved the Ovarium Fallopian Tube and neighbouring Parts to be fwelled, in a fteatomatous or fchirrhous State, and befet with fmallHydatides. -Dr. Samfon gives an Account of the Diffection of a Woman who died of a Dropfy of the left Ovarium; there was no extravafated Water in the Cavity of the Abdomen, but it was filled with a Number of Veficles of different Sizes full of a vifcous Serum, fome fo large as to be able to contain 20 lb. of this Liquor, others about the Size of a Child's Head, others as big as an Orange, and others not larger than

187. These incysted Dropsies feldom yield to internal Medicines, and while the Sacs re-

than Walnuts; upon examining these Veficles they appeared to be no other than the Ovula of the Ovarium diftended to that monftrous Size; he fays, if you can imagine about forty Bladders of different Sizes tied together like a Reeve of Onions, you have an Idea of this Ovarium; the whole Veficles contained about 112 lb. of Serum. Philof. Tranf. No. 140 .- In a Woman, who died of a Dropfy, the left Ovarium was fwelled to a prodigious Size, fo as to weigh thirty-feven pounds; it was divided into a great many Cyfts oddly complicated together ; fome contained a clear Water, others a gelatinous Liquor, others a Fluid like Cream, others like Tallow. In fome Parts it had a glandular, in others, a flefhy Appearance. The Omentum too was thickened and divided into Cyfts that contained different Sorts of Fluids fomething in the fame Manner. The Weight of these Substances prefling on the fmall Guts had brought on a Gangrene, of which the Patient died in two Days. Ridley obf. Med. pract. & physiol. obf. 33 .- See Diffections of hydropic Ovaria in Nuck Adenograph. cap. 8 .- Philof. Tranf. No. 466 .- Bonet. Sepulch. anat. lib. iii. cap. 21.-In the Body of a Woman who died of a Dropfy, the right Ovarium was near a Foot long, 2\$

remain moveable they fcarce admit of any chirurgical Operation; unlefs we were to open the Abdomen and to extirpate them, which is both too dangerous and too fevere an Operation for the little Inconvenience they put the Patient to at that Time.

188. When they adhere to the Integuments, become fixed, and point outwardly, they may then be opened (p), the Water let out, and they treated

as much broad, and fix Inches thick ; it was composed of a great many fmall Bags of different Sizes, containing a glairy Matter like Mucilage or Honey, and there was one large Bag which contained near fifty-two Pounds of Water, which appeared to be only the external Covering of the Ovarium, or elfe one of the Hydatides diffended. The Fallopian Tube was lengthened and enlarged in its Diameter. All the other Viscera were found, except the Gall Bladder, which had two Concretions in it. Medical Essays, wol. v. art. 73.

(p) Margaret Millar, after Child-Birth, was feized with a violent

treated as mentioned in Sect. 164, though we cannot for the most Part, even in such

a violent Pain in her left Side, and her Belly began to fwell; after thirteen Years the Tumor was grown to fuch a monftrous Size that it engroffed the whole left Side, and feemed to point. The great Uneafinels it gave the Patient, joined with her Refolution and Importunities, made Dr. Houfton refolve to lay the Tumor open ; having therefore made an Incifion into it about an Inch long, and nothing coming away, he enlarged the Wound two or three Inches more, and then at first only a little glutinous Substance came out of the Orifice, till putting a ftrong Fir Splinter, with fome Lint wrapt round the end of it, into the Wound, he brought away upwards of two Yards of a gelatinous Subftance about ten Inches broad ; this was followed by nine full Quarts of fuch Matter as is obferved in fleatomatous and atheromatous Tumors, in which there was a Number of Hydatides of various Sizes, fome of them larger than an Orange. After he had evacuated all the Liquor, he fewed up the Wound, and by the Affiftance of proper Dreffings and internal ftrengthening Medicines, the Woman recovered her Health in a few Weeks. From the whole Hiftory of the Cafe the Doctor thinks it pretty evident that it was the Ovarium which was affected. Philof. Tranf. No. 381. feet. 3.

Cafes,

Cafes, flatter ourfelves with the Hopes of a Cure, as such incysted Dropfies often take their Rife from or are accompanied with steatomatous or schirrous Tumors within the Abdomen which cannot be extirpated without immediate Danger of the Patient's Life (q).

HYDROCELE in the SPERMATIC CHORD.

189. An Hydatide in the fpermatic Chord, whether it be formed in the common Way of other Hydatides (r), or by Part of the

(q) Mr. Mor and fays he once had a Patient with the Dropfy of the Ovarium, from whom he often drew thirty-fix Englifb Pints of Water at a Time; the Operation incommoding her fo little that fhe ufed to go into the Country the Day after it. He proposes here by Way of Question, whether the Extirpation of the Ovarium, when it is dropfical from hard or fchirrous Tumors, might not be fafely attempted; as we fee every Day Brutes furvive the Extirpation of their Ovaria? Memoir. de l' acad. de chirurgie, vol. ii. p. 458.

Peritoneum

Peritoneum which formed the Sac of an inguinal Hernia which had been reduced (s), is known by the common Marks of fuch Tumors, and may be diftinguished from Collections of Water between the Coats of the Testicle, by the Testicle being still felt at the lower Part of it; whereas in the latter Sort of Hydrocele, the Testicle floating in the surrounding Water cannot be diftinctly perceived.

190. This Hydrocele is to be cured as other Hydatides; the Incifion being made on the Outfide of the Scrotum, as the Part where large Veffels are most certainly avoided, the Water most readily evacuated, and the Dreffings' eafieft applied (t).

(r) See fuch Cafes in Garengeot Operat. de Chirurg. obf. 28.—Saviard obf. 22.—Le Dran, obf. 75.

(s) Such Cafes may be feen in Bidloo anat. tab. 32. fig. 3 & 4.-Le Dran. obf. reflex. fur Pobf. 58 & 75.

(t) See Hiftories of fuch Cures in Medic. Estays, vol. v.

FINIS















