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ELEMENTS
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PRACTICE
OF
PHYSIC.
PART THE FIRST.
CONTAINING THE
NATURAL HISTORY
OF THE
HUMAN BODY.
BY GEORGE FORDYCE, M.D. Of the Royal College of Physicians, and Reader on the PRACTICE of Physic in London.

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THIS ESSAY

ON THE ART OF HEALING,

IN TESTIMONY OF THE AUTHOR'S

GRATITUDE,

IS WITH THE GREATEST RESPECT,

INSCRIBED

TO HIS GRACE

HUGH DUKE OF NORTHUMBERLAND,

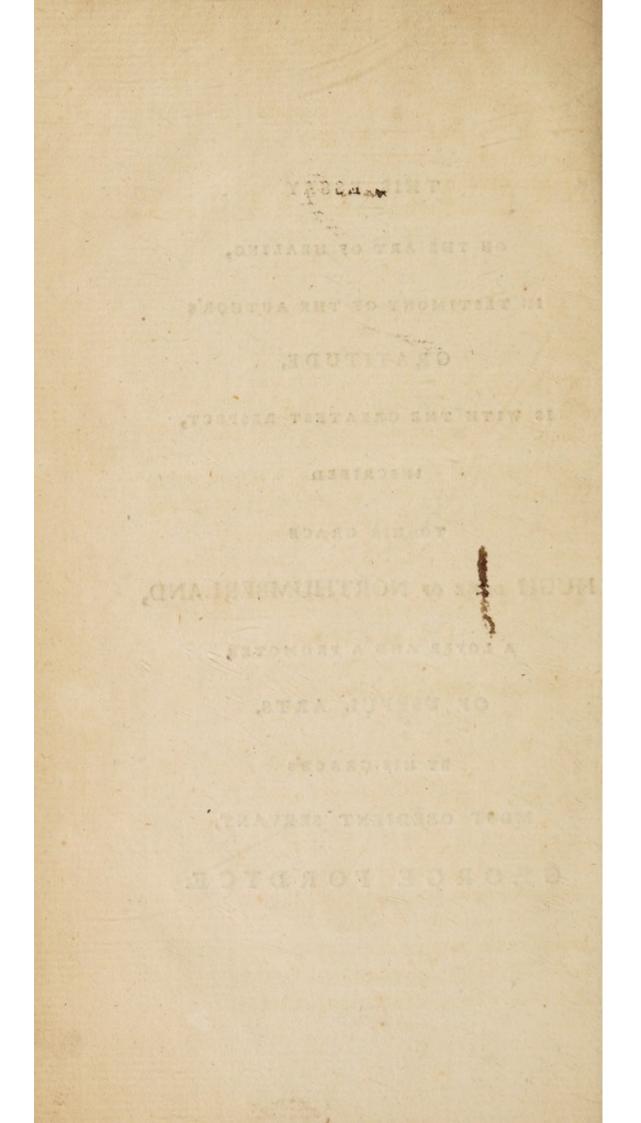
A LOVER AND A PROMOTER

OF USEFUL ARTS,

BY HIS GRACE'S

MOST OBEDIENT SERVANT,

GEORGE FORDYCE.



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NATURAL'HISTORY

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HUMANBODY.

A Disease is such an alteration of the chemical properties of the fluids or folids, or of their organization, or of the action of the moving power; as produces an inability or difficulty of performing the functions of the whole, or any part of the system, or pain, or a preternatural evacuation.

The CHEMICAL PROPERTIES of the FLUIDS.

THE fluids may be divided into

1/1, The blood. 2*dly*, Those formed during digestion, before the food is converted into blood. 3*dly*, The fecreted fluids.

The blood confifts of

1A, The ferum.

2dly, The coagulable lymph.

3dly, The red part.

4thly, The fuperfluous water.

5thly, Extraneous fubftances introduced.

The

The ferum, coagulable lymph, and fuperfluous water, are diffufed through one another; and the red part is mechanically mixed with them. Some of the extraneous fubftances are alfo mechanically mixed with them, and fome diffufed through them.

PROPERTIES of the SERUM.

I T is fluid in any degree of heat between 30 and 160 of Fahrenheit's thermometer.

In a leffer heat it freezes, in a greater it coagulates.

Coagulation is a feparation of an animal or vegetable matter from the water in which it was diffolved; and is at the fame time a change of the properties of that matter, rendering it infoluble in water again by commixture alone.

The ferum confifts chemically of a coagulable matter, and water in which common fal ammoniac and phofphoric ammoniac, and generally common falt, and frequently felenites, and fixed ammoniac, are diffolved; but it is a queftion, whether the water chemically combined in the ferum is alfo united with those neutral falts, or whether the ferum, and the folution of these, are only diffused through one another.

It is probably in itfelf colourlefs, and inodorous; but it receives a yellowifh or brownifh hue from the putrefcent part of the blood, and acquires a fmell from the effential oil.

If it contained no neutral falts, it would be infipid, and incapable of ftimulating. The fuperfluous water may be feparated from it by filtration in the body, but that which is chemically combined with the other parts cannot.

All the water may be evaporated from it by a leffer heat than 140 degrees of Fahrenheit's thermometer, if it be exposed to the air. The other parts remain after this operation folid, and foluble again in water by commixture alone.

The feparation or addition of fuperfluous water does not affect its vifcidity, fo far as that is of any confequence in the circulation; but the feparation of that water which is in chemical combination, may render it more vifcid.

The water in chemical combination is never feparated, while the ferum is contained in the bloodveffels; and of confequence this part of the blood is always equally vifeid, fo far as its vifeidity can affect the circulation or fecretions.

It may be coagulated by acids, oils, alcohol, &c. but no fubftance can get into the blood-veffels in a fufficient degree of concentration to coagulate it, excepting by injection.

It may be coagulated by a juice fecreted in the fromach.

It has feldom, if ever, been found coagulated in the body.

The only perceptible difference which has appeared in the coagulable part of the ferum, from any obfervation hitherto made public, is, that fometimes in coagulating its parts adhere more or lefs firmly, and that fometimes it is of a deeper or lighter brown colour.

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PROPERTIES of the COAGULABLE LYMPH.

be body, but that

I T is a compound of water and a coagulable matter.

As long as it continues in the courfe of circulation, it is fluid in any degree of heat between 30 and 120 degrees of Fahrenheit's thermometer.

When it is taken out of the blood-veffels, it coagulates; whether it be in motion or at reft, exposed to the air or not, or in the heat of the human body, or in any other degree of heat.

If it be retained in a blood-veffel, it continues fluid for more than three hours in any degree of heat between 30 and 120 of Fahrenheit's thermometer, and that whether it be in motion or at reft. The fmaller the blood-veffel, the longer it continues fluid.

It has hardly ever been found coagulated in the blood-veffels of a living animal, unlefs they have been enlarged into aneurifms or varices.

It has generally been found coagulated in the large veffels of the human body on diffection, and fometimes feparated from the other parts; but to all appearance these coagulations have almost always taken place after death.

When it is taken out of the blood-veffels, it may be prevented from coagulating, by faturating the whole blood with common fea-falt, and perhaps by fome of the other neutral falts.

Although the coagulable part of the ferum and coagulable lymph have different properties, the coagulum formed from both is pretty nearly the fame.

A RIL

The

The coagulum may be diffolved in water by boiling or putrefaction; and may be united with concentrated acids, with cauftic alkalis, and calcarious earth, and with fome metallic falts, into a fubftance foluble in water: but none of these can get into the system by absorption, fo as to produce this effect.

Both the fuperfluous water and ferum are capable of being feparated from the coagulable lymph, by filtration in the body.

When the blood is received into a proper veflel, the coagulation of this part gives an appearance of folidity to the whole : but foon after the whole becomes thus apparently folid, part of the ferum, of the fuperfluous water, and of the water which was combined with the coagulable lymph, ouzes out from the whole mafs, and brings along with it part of any extraneous fluid that may be contained in the bloodveffels; leaving behind what is commonly called the red globules, the coagulum of the coagulable lymph, and any folid particles that may have been in the blood. This is called the fpontaneous feparation.

When the arteries are acting firongly, whether the whole habit be firong or not, the coagulable lymph is more fluid, and longer in coagulating. Of confequence it lets the red particles, which are the heavieft part of the blood, fall down towards the bottom, before it coagulates : and upon the fpontaneous feparation, the coagulum is divided into two parts; the upper, confifting of the coagulum of the coagulable lymph alone (which has in this cafe been called the buff); the under, confifting partly of this, and partly of the red particles.

Although part of the coagulable lymph would feparate from the red particles, may be prevented by taking the blood from a fmall veffel, or from a fmall

orifice

orifice, or by letting it run along the fkin before it falls into the veffel into which it is received, or by receiving it into a veffel whofe furface is large in proportion to its contents; as in all these cases the coagulation is forwarded. On the other hand, if it flagnate in the blood-veffel for fome time before it is taken out, there will be a separation, when none would otherwise have happened.

Whether the coagulable lymph feparates in part from the red particles, or not, it coagulates fometimes into a firmer, fometimes into a loofer mass, generally in proportion to the firength of the system.

All the fubfiances which coagulate the ferum, have the fame effect on the coagulable lymph; but none can be applied to it in the blood-veffels, excepting by injection in a fufficient degree of concentration to coagulate it.

The coagulable lymph is probably in itfelf colourlefs, infipid, inodorous, and incapable of flimulating.

Whilft it remains in the blood-veffels, it is chemically combined with a certain proportion of water, from which it cannot be feparated but by coagulation; neither will it combine with a larger proportion.

Water mechanically mixed with it has no effect on its viscidity, so far as that affects the circulation or secretions.

No other differences besides those already taken notice of are observable in its properties.

The coagulable lymph and ferum are both capable of putrefaction, and are converted by it into a mucilaginous matter, not coagulable by any of the methods recited above.

If this mucilaginous matter fhould undergo a further putrefaction, it emits a foetid vapour, and is converted into faline fubstances and calcarious earth.

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PROPERTIES of the RED PART.

UPON viewing this part of the blood with a deep magnifier in the folar microfcope, as it circulates in the blood-veffels of a living animal, it appears to be divided into a number of fmall particles, which are apparently annular, and exceedingly flexible.

While the animal is refpiring, and the blood circulating, it is of a fcarlet colour in the arteries, and of a Modena red in the veins; but if the refpiration be ftopped, that blood which circulates afterwards through the lungs continues of a Modena red. If it be taken out of the veins, kept moift, and exposed to refpirable air, it becomes of a fcarlet colour; if it be taken out of the arteries, and covered from the air, or if it ftagnate in them, its colour is changed to a Modena red. A light fhade of Modena red is not fcarlet, neither is a deep fcarlet a Modena red. Various other fubftances alter the colour of this part.

It feems to have a fweetifh tafte, to be inodorous, and void of flimulus.

Its fpecific gravity is but a very little more than the ferum or coagulable lymph.

It is more inflammable than the other parts; and, on performing its chemical analyfis, it yields a large proportion of empyreumatic oil.

It is readily foluble in water, but not in the ferum.

It is not foluble in a faturated folution of neutral falts.

It is capable of undergoing the putrefactive fermentation, the first stage of which breaks it down into fmaller particles, and renders it of a dark colour. It afterwards is converted into a mucilage, and becomes foluble in the ferum,

The SUPERFLUOUS WATER.

I T is diffused through the ferum and coagulable lymph.

It contains a part, perhaps the whole, of the falts.

These falts are chemically combined with a part of it only, and this folution is diffused through the remaining part.

The water diffused may be separated from the solution by filtration in the body.

The folid part of the blood, left after evaporation of the water by a heat lefs than that of boiling water, amounts to from one fourth to one fifth of the whole.

EXTRANEOUS SUBSTANCES.

A Great variety of extraneous fubftances, both fluid and folid, may be introduced into the bloodveffels by abforption; but none of them in fuch proportion as to produce any alteration in the blood, except by fermentation.

When any ferment is introduced into the bloodveffels, it acts upon a part of the blood only; the greatest part remaining to all experiment exactly the fame as before.

(9)

Of the PUTREFACTION of the BLOOD.

 $\mathbf{F}^{\text{Ermentation}}$ is the conversion of one compound into another, by a new arrangement or manner of combination of its elements.

What is commonly called putrefaction confifts of two fermentations, which we fhall call by the names of the first and second stage.

All animal folids and fluids may be reduced by the first into a mucilaginous mass, foluble in water, and diffusible through any quantity of it.

The red part of the blood first breaks down into finaller particles, before it is formed into a perfect mucilage.

The first stage takes place without any effervescence.

The fecond stage converts this mucilage into earths, and falts, a foetid vapour, and fixable air.

The first and second stage of putrefaction take place in a small part of the blood, or it is destroyed by some other operation; for

After having coagulated the ferum, if we fqueeze out the water, and evaporate it, there is left a mucilaginous matter fimilar to that formed by putrefaction.

The falts formed in the blood-veffels, excepting phofphoric ammoniac, may be formed by the laft ftage of putrefaction; and those formed by the last ftage are found in the blood-veffels, excepting nitrous felenites, and nitrous ammoniac. This mucilage, and these falts, are always carrying off by urine; the present blood is always diminishing, and the vessels require a fresh supply from the food.

The blood is always in the moft powerful circumftances of putrefaction; which are, a heat of 98 degrees of Fahrenheit's thermometer, fluidity, a moderate exposure to air, and motion: but it is prevented from putrifying by the action of the veffels; nor can any ferment or other circumftance induce the fermentation, till this action is altered, except perhaps the introduction of chyle intermixed with putrid matter.

In difeafes, the first stage often takes place in part of the blood; the second stage sometimes, although seldom.

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Of DIGESTION.

DIGESTION is the conversion of the food into chyle, and afterwards into blood.

The food may confift of farinaceous or mucilaginous vegetable fubftances, or native vegetable acid, or fugar, or expressed oil, or animal folids, or animal fluids containing a mucilaginous matter.

These substances may be digested, if they be taken fingly, or if they be mixed together.

The blood formed does not differ fenfibly in its properties, whether the one or the other of them be ufed fingly, or feveral of them together; provided the organs of digeftion be fufficiently powerful convert them into blood.

If the food be folid, it is generally broke down by . the teeth, or by fome other apparatus.

But mathing it down with water is not fufficient to alter its chemical properties, and convert it into chyle and blood.

It is mixed in the ftomach with the watery fluids we drink, and with the mucilaginous watery fluids fecreted by the falivary and other glands.

It is fometimes diffolved in water before it is ufed : but it is often rendered folid by a previous preparation, or coagulated by a fubflance fecreted in the ftomach.

Simple folution in water does not convert it into chyle or blood.

If it be previoufly diffolved in water, it affords lefs nourifhment than if exhibited folid. It is neceffary that it remain in the flomach for fome time, in order to its digeftion.

The only process it can go through in the organs of digestion, that is capable of altering its chemical properties, is fermentation.

Its fermentation is not attended with effervescence in a healthy flomach.

If vegetable food be used, an acid is produced. This acid is deftroyed in the duodenum by the bile.

If animal food be used alone, no acid is produced.

The ftronger the ftomach, and the more perfect the digeftion, the lefs acid is formed from vegetable food.

No stage of the putrefactive fermentation takes place, during the conversion of it into chyle and blood, if the digestion be perfect.

The fermentation which takes place is peculiar to the organs of digeftion, and has never been produced by any artificial means yet attempted.

The fermentation which takes place in the flomach, forwards the folution of folid food in the watery menftruums.

Solid foods diffolve fooner in the ftomach than they can be diffolved in water in the fame heat, by any means hitherto found out.

If the flomach does not act properly, folid food remains undiffolved; vegetable, and mixtures of vegetable, and animal fubflances become more acid; animal fubflances putrify; a quantity of air is feparated; and the food is not digefted and converted into chyle.

Only that part of the food which is digefted affords nourifhment; the nourifhment therefore is in proportion to the food and the digeftion.

When food, either from its quantity or quality, cannot be digested, it is apt to occasion great difturbances turbances in the fystem, while it is contained in the ftomach and intestines.

The only fenfible alterations produced in the blood by different foods, are in its quantity; or in the proportion of fuperfluous water; or that fometimes a long use of animal food brings on a degree of putrefaction.

Of the CHYLE.

THE chyle is formed from the food in the intestines, and absorbed by the lacteals.

The whole fluid abforbed is not chyle, but a mixture of chyle, and the folution of those fubstances, which were fimply diffolved in water without being digefted.

Quere, Whether a fimple folution of mucilaginous, animal, or vegetable fubftances, can be converted into blood, without being formed into chyle in the ftomach and inteffines ?

Chyle is fluid, while in the lacteals; when exposed to the air, it coagulates; it is rendered white, from a mixture of expressed oil.

When coagulated, a fluid may be fqueezed out, which probably contains a coagulable matter, and fugar.

The SECRETED FLUIDS.

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THEY either

Exift in the blood-veffels, being mechanically mixed with the other fluids, and require only a mechanical feparation;

Or they do not exift in the blood-veffels, their elements only being contained there: but these elements are not combined, so as actually to form the fecreted fluid. It is therefore requisite, that some chemical operation should take place in the secretory organ, by which the elements shall be combined so as to form the matter secreted.

The chemical operation by which they are formed, is fermentation.

The fluids feparated mechanically, are

The matter of the infenfible perfpiration.

The urine.

The fweat.

The milk.

The fluids formed in the fecretory organ by a che= mical operation, are

The mucus. The faliva. The pancreatic juice. The femen. The bile. The wax in the ear. The febaceous matter. The coagulating matter of the flomach, &c.

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The MATTER of the INSENSIBLE

PERSPIRATION.

I T is feparated from the furface of the lungs, and from the fkin, by evaporation.

The quantity evaporated depends upon the quantity of fuperfluous water in the blood-veffels, the heat of the air, the quantity of air applied, and the contraction or relaxation of the veffels from whence the evaporation takes place.

When the body is in its natural flate, that part of the infenfible perfpiration, which is capable of condenfation, confifts of water, with a very fmall proportion of a mucilaginous matter and effential oil, and fometimes perhaps volatile alkali.

There is no reafon to fuppofe, that any matter flies off that cannot be condenfed, from any experiment hitherto made; but it is rather probable that there is not.

Should any other fubftance, capable of emitting vapour in the heat of the human body, get into the blood-veffels, or be formed on the furface of the fkin, lungs, or in any of the paffages of the air in breathing, it may be mixed with the infenfible perfpiration.

Some of these substances may be putrid vapour, variolous, morbillous, and other infectious matters, alcohol, and other extraneous volatile substances, &c.

The matters thrown off by infenfible perfpiration, may be evacuated by the other excretions.

The health is not in proportion to the quantity of infenfible perspiration.

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The URINE.

THE urine, in the common flate of the body, is a transparent brownish fluid, which upon cooling has a mucilaginous matter separated, capable of being rediffolved in heat.

In health, the feparating mucilage is generally in fuch quantity as to remain fulpended in the urine after its feparation, forming what has been called the cloud.

It is fometimes totally absent in health, but much more frequently in difeases; fometimes it is in quantity fufficient to carry the cloud to the bottom, and form a mucous fediment; and fometimes it falls down in a flaky powder, and forms what has been called a lateritious fediment, which is commonly of a brick colour, and now and then white.

This last appearance often takes place on the going off of acute difeases; but it also happens in health, and while difeases subsist in their full force, particularly when they affect the urinary passages, or parts near them.

Sometimes the feparating mucilage is feparated in a powder, remains fufpended in the urine, and renders it turbid.

After the feparating mucilage is feparated, if the urine be filtrated from it, it is transparent, confifting of water which contains a mucilage, and falts.

1/1, A mucilage, fimilar to that formed by the first ftage of putrefaction.

This mucilage is of a brownifh colour, and gives the greatest part of the colour to the urine. Its quantity varies confiderably; but the proportion of it in the urine is always fmall.

If the water be evaporated from it, it will rediffolve, and it may be diffused through any quantity of water in any heat.

It is not coagulable.

2*dly*, The falts are common falt, common fal ammoniac, phofphoric ammoniac, vitriolic felenites, and muriatic felenites.

Common falt is contained in the urine, in confequence of its being used in the food, or drink; and it is in proportion to the quantity used.

The other falts are contained in the urine independent of any faline fubftance taken into the body, except perhaps the vitriolic felenites.

The quantity of felenitic falts is commonly very fmall; but fometimes the urine is faturated with vitriolic felenites, which feparates, and chryftalizes, upon the urine's ftanding to cool.

The proportion of the falts varies confiderably, but is always fo fmall as to form a diluted folution.

The folution is generally fufficiently concentrated, to ftimulate a very irritable part, but not always.

The dilution depends on the quantity of fuperfluous water in the blood-veffels, and on the quantity of that fuperfluous water evacuated by the kidneys: fo that, when the quantity fecreted is large, the folution is generally diluted; when fmall, more concentrated.

Watery fluids may pass through the blood-veffels, and by the kidneys, hardly carrying off any thing with them, especially if large quantities be drank at a time, and the external vessels be contracted.

Some-

Sometimes a quantity of calcareous earth is found in the urine, fufpended by mechanical mixture, or at leaft not combined with an acid.

Any extraneous fubftance, foluble in water, that may get into the blood-veffels, may be evacuated along with the urine; fuch as acids, alkalies, neutral and other faline fubftances; infufion of rhubarb, and other mucilaginous vegetable juices; bile, pus, and other fluids formed in the body.

If the kidneys are relaxed, or ftimulated; chyle, ferum, coagulable lymph, and even the red part of the blood may be thrown out.

The red part may also be broke down by putrefaction, and pass off by the kidneys, of a very dark colour, diffurbing the transparency, and sometimes forming a fediment.

If the heart and arteries act more ftrongly, or frequently, than they do in their natural ftate, a quantity of expressed oil comes away with the urine, and forms a film on the furface, or a ring round the vessel into which it is received.

The urine always contains a portion of the effential oil of the urinary passages, and sometimes a portion of their mucus.

The

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The SWEAT.

A^S far as we are capable of judging from the fmall quantity that can be collected, it contains nearly the fame fubftances as the urine; only that inftead of the effential oil of the urinary paffages, it is mixed with the febacious matter of the fkin, which gives it a degree of whitenefs, and a fmell different from that of the urine.

The MILK.

IT is fecreted naturally in the breafts of women for the nourifhment of their young, fometimes during pregnancy, and always after child-birth. There are faid to have been inftances of its being fecreted at other times, and from other parts of the body.

It is a whitifh fluid, which feparates into two parts upon being left at reft in a moderate degree of heat: The upper part confifts principally of expressed oil, with a mixture of the other part, and is whiter and more opaque.

The under part confifts of a folution of coagulable matter and fugar, in water; with a fmall mixture of expressed oil, and is called the fkim-milk.

The expressed oil is fluid in the heat of the human body, but folid in the heat of the atmosphere.

C 2

It is only mechanically mixed with the other part.

It is tinged with, and receives a flavour from, the effential oil of the food and of the body.

It is found not only in different proportions in the milk of different women, but also in the milk of the fame woman at different times, and even in that which iffues from the different excretory ducts of the glands of the fame breaft.

The coagulable matter only differs from the coagulable matter of the ferum, in its coagulability, and its proportion to the water.

It is not coagulable by a lefs heat than that of boiling water, and by that only, if the water be evaporated from it.

It may be coagulated by acids, alcohol, feveral metallic and aluminous falts, and vegetable juices; but it requires that they fhould be applied to it in a greater degree of concentration than the ferum does, in order to its coagulation.

Heat affifts the coagulating power of these fubftances.

It is readily coagulable by the coagulating juices of the ftomach, and coagulates in the ftomach of a living animal, whether any acid be contained in it or not.

The fugar contained in the milk does not differ in its properties from that of the fugar-cane.

Its proportion is always fmall.

When a woman makes use of vegetable food, it feems to be in greater proportion than when she uses animal.

The milk of a bitch, using animal food alone, contains sugar.

If

If milk be kept for fome time exposed to the air, and in the heat of the atmosphere, or of the human body, the fugar ferments, and is converted into vinegar, which coagulates the coagulable matter.

The fame change may take place in the breaft, if it ftagnate there for fome time, or if the woman be fuddenly affected with any of the paffions of the mind that are attended with anxiety.

If blood be taken from the arm after a full meal, the ferum is often mixed with a fubftance which gives it a degree of whitenefs and opacity.

The milk is fecreted after a full meal in larger proportion, than after a woman has fasted for fome time.

In the latter cafe, the proportion of the expressed oil, coagulable matter, and fugar, likewife diminishes, and the milk contains besides these the neutral falts of the blood, and acquires a bitterness from the febacious matter of the glands of the nipples.

In fome women the milk always contains the falts of the blood, or the febacious matter of the nipples.

The febacious matter not only gives it a bitter tafte, but also, fometimes, a yellowish colour and a thicker appearance.

The milk may contain any fubstance which is thrown into the ftomach, and fimply diffolved in water, without going through the digestive fermentations, and being converted into chyle.

The Mucus.

IT covers the furfaces of the membranes that are exposed to any extraneous matter, such as the skin and internal membrane of the mouth, nose, lungs, æsophagus, stomach, intestines, urinary passages, &c.

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It

It is a fluid of an adhefive viscidity approaching to a folid, and of greater viscidity in one part than in another.

It is a compound of a coagulable matter and water.

It is more or lefs vifcid, according to the quantity of water with which it is combined.

It is of different degrees of vifcidity in different parts of the body.

It will not combine with more water than what is already contained in it; neither can its vifcidity be altered by digefting it with water, unlefs it begin to putrify; nor can the more vifcid mucus of one part be converted into the lefs vifcid of another.

If the water be evaporated from it by a gentle heat, the coagulable matter remains folid: if this be immerfed in water, it will abforb that quantity which evaporated from it, but no more, and it will regain its former fluidity and vifcidity.

It, for the most part, contains either no neutral falts, or fo fmall a proportion as cannot easily be rendered fensible to experiment. It is colourles, infipid, inodorous, and incapable of stimulating.

It combines with concentrated vitriolic, nitrous, and muriatic acids, with concentrated folutions of fome metallic falts, and alfo with concentrated or diluted folutions of cauftic alkalies and cauftic calcarious earth, into compounds foluble in, and diffufible through water.

Acids and fome metallic falts diffolved in water, and concentrated, but not to that degree as to diffolve it, alcohol and aluminous falts coagulate it. It is alfo coagulable by the heat of boiling water, but not by a lefs degree of heat. The mucus defends the membranes from being fo much ftimulated by any application as they would be, if they were not covered with it.

If the fecretion be fuddenly increased, the matter fecreted is often a thin watery fluid containing the falts of the blood, and in confequence of them capable of flimulating; and the membranes are not defended from external applications.

If a greater fecretion fhould continue than what naturally takes place, the mucus retains the falts, but often acquires a vifcidity, and becomes incapable of being diffufed through water: its colour alfo often grows white, greenifh, or yellow; and now and then it acquires a fmell.

The SALIVA.

IT is fecreted by feveral glands in the mouth; and the principal part of it is thrown down into the ftomach, to anfwer fome purpose in the digestion of the food.

It is a fluid of an adhefive viscidity, with difficulty diffusible through water.

It confifts of water, a coagulable matter fimilar to that of the mucus, and the falts of the blood, but not in so large a proportion as they are contained in the ferum.

It contains a larger proportion of water than the mucus.

In its other properties it is fimilar to the mucus.

(24)

The PANCREATIC JUICE.

TT appears to be fimilar to the faliva, except that it is lefs vifcid, and contains a larger proportion of the falts of the blood.

The faliva and pancreatic juice are probably watery menstrua for the folution of the food in the ftomach and intestines, their viscidity preventing them from being abforbed before they produce that effect.

They have been faid to act as ferments during the digeftion; but as the fermentations of the ftomach have never been made to take place out of it, we cannot judge of this by any experiment hitherto communicated to the public.

The BILE.

THE blood from which the bile is formed has probably gone through one circulation, without being exposed to the air in the lungs, or mixed with the fluids brought by the lymphatics from the different parts of the body.

The blood, from which the bile is formed, paffes through the veffels of the abdominal vifcera, before it arrives at the liver; but it does not take up any fubftance from them, or at leaft not in fuch a quantity as to be fenfible to any experiment yet made; but, on the contrary, it appears perfectly fimilar in all fenfible fible qualities to the blood returning by the veins from the other parts of the body.

There is no appearance of bile in the vena portarum of a living animal.

When bile in the jaundice is contained in the blood-veffels, it is fecreted by all the fecretory organs, and it is evidently contained in all the fecretions.

The bile is formed from the blood in the fecretory veffels of the liver.

It runs along the hepatic ducts into the ductus communis cholidochus, and from thence partly into the duodenum, and partly into the gall-bladder.

It continues for fome time in the gall-bladder, and becomes more perfect in its properties there; from thence it returns into the ductus communis cholidochus, and paffes into the duodenum.

The bile is a fluid of an oleaginous viscidity, confifting of a folution of a folid matter in water.

If the water be not evaporated from it, no alteration is produced on it by any heat between 32 and 112 degrees of Fahrenheit's thermometer.

The bile is diffufible in any proportion of water.

If the water be evaporated from the folid part by a heat not exceeding 112 degrees of Fahrenheit's thermometer, it is foluble in, and diffusible through, any quantity of water.

The folid matter of the bile melts if it be heated, and is decomposed if the heat be encreased.

If it is diffilled by itfelf, it yields a larger proportion of empyreumatic oil than any of the other fluids, except the expressed oil and red part of the blood.

It is of a yellow colour, and a fweetifh bitter taffe.

When it is not combined with more water than it generally is in the gall-bladder, it does not putrify

more

more readily than the blood; but if it be diluted with water or watery fluids, it putrifies more readily.

Acids and fome of their compounds decompose it, and precipitate from it a refinous matter.

The acidity of the acid is loft by its combination with the other part; but if more acid be employed than what is neceffary for the decomposition, the acidity of the fuperfluous quantity remains.

The matter precipitated has the peculiar fmell of the animal.

It is folid in the heat of the atmosphere, melts in a moderate degree of heat, and burns very readily.

It is not foluble in water.

It is partly foluble in alcohol.

If the paffage of the bile into the duodenum be ftopt, acidities are apt to take place in the inteffinal canal, the periftaltic motion does not go on properly, the fæces lofe their peculiar colour and fmell, and often acquire a more putrid fætor, and the digeftion is hurt, but not entirely prevented.

The properties of the other fecreted fluids have not been fufficiently inveftigated by experiments for us to be able to give any fatisfactory account of them.

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If they be expoled to a mersing, cold, the string

nd months wing their textore is for-

The CHEMICAL PROPERTIES of the ANIMAL SOLIDS.

THEY are a compound of a coagulable matter and water.

They are naturally flexible; but, if the water be evaporated from them by a gentle heat, they become friable.

The water chemically combined, cannot be feparated from them by expression. Exposed to about a red heat, they are decomposed; and if they be distilled by themselves, volatile alcali, empyreumatic oil, water, and calcareous earth, are formed.

When free from effential oil, blood, and the falts of the fluids, they are colourlefs, infipid, and inodorous.

They differ in their flexibility and elafticity.

Fibres and membranes are readily flexible, not capable of being broke by bending, and have a lefs degree of elafticity.

Cartilage is lefs flexible, capable in general of being broke by bending, and more elaftic.

Cartilage often fupplies the place of bone in young animals.

Heat, dilute acids, neutral falts, alcohol, metalic, and aluminous falts, aftringent juices of vegetables, and feveral other fubftances, coagulate them, *i. e.* feparate part of the water chemically combined, and of confequence contract them, diminifh their flexibility, and harden them. Subftances coagulating the animal folids, are called Aftringents. (28)

be altered.

Concentrated vitriolic, nitrous, and muriatic acids, cauftic alkali's, even in a diluted folution, quick lime, and feveral of the metallic falts, combine with them into a fubftance diffufible through, or foluble in, water, and deftroy their texture.

They are capable of putrefaction in the fame manner as the animal fluids.

(29)

The GENERAL STRUCTURE of the BODY.

The BLOOD-VESSELS,

THERE are cavities in the body, called bloodveffels, in which the red part of the blood, the coagulable lymph, and part of the ferum and fuperfluous water, are ufually contained.

They confift of the heart, arteries, capillaries, and veins.

The heart confifts effentially of two cavities, there being two hearts, properly fpeaking, joined together in the human body, ferving for two circulations of the blood; one through every part of the body, and one through the lungs.

The left fide of the heart ferves for the general circulation, and confifts of two cavities, the auricle and the ventricle.

The auricle is a cavity which opens into the pulmonary veins at one end, and into the ventricle at the other. There is a valve placed at the opening into the ventricle, which prevents any fluid from paffing from the ventricle into the auricle.

The auricle is in part covered with mufcular fibres. The ventricle is a cavity furrounded with mufcular fibres, having one opening into the auricle, and another into a pipe, called the aorta or great artery.

At the opening into the aorta, there are valves, which prevent any fluid from paffing from the aorta into the ventricle. The aorta is a tube which begins at the heart, and dividing into feveral branches, goes to every part of the body.

It does not divide at once, but branches out as it paffes along.

When it has arrived at any part, and divided into very fmall branches, these open into one another, so as to have a free and perfect communication every way: from these arise a smaller set of tubes, which also communicate in the same manner; and from them again arise a larger set, which have likewise a free communication.

The firft fet have been called capillary, or anaftomoting arteries: the fecond have not got a name: the third have been called capillary veins; but I would term all of them capillary veffels.

From the third fet arife tubes which terminate in the heart, joining together as they go on towards it, and forming principally two large tubes, which open into the right auricle.

These are called veins.

The veins which are fubject to frequent compreffion, from the action of the muscles, have valves which open towards the heart.

Each artery, capillary, and vein, is nearly cylindrical, but fomewhat irregular in its diameter.

No muscular fibres appear on the arteries, capillaries, or veins in the human body.

These veffels are all of them elastic, and capable of being diffended, so as to contain a larger quantity of fluid than what is necessary to render them cylindrical.

Their elafticity is not fufficient to overcome the weight of their fides and keep them cylindrical, if they they are not filled with a fluid, excepting in that part of the aorta nearest the heart.

When an animal is dead, and no chemical or mechanical change has taken place in the veffels, the elafficity is the fame as when the animal was alive.

When an animal is dead, and the veffels act by their elafticity alone, they are incapable of contracting to half the fize they are of at their utmost diffention, fuppofing them to continue cylindrical.

When an animal is alive, the blood-veffels are always cylindrical, excepting when they are comprefied by a confiderable external force.

They are always full of blood.

When an animal is alive, the veins, capillaries, and fmall arteries, are fometimes contracted to lefs than half the fize they are of at other times; therefore the veins, capillaries, and fmall arteries, in a living animal, have a contractile power independent of their elafticity, by which they adapt themfelves to the blood, and continue cylindrical.

This power is fimilar to the mufcular power.

When the veffels contain more blood they become longer, or their diameter is enlarged, or both; and, e contra,

When they contain lefs blood, they become fhorter, or their diameter diminishes, or both.

The contractile power of the veffels is capable of diminishing either their length or diameter.

When an animal dies, the arteries and veins lofe their cylindrical form, and are flattened, and the capillaries contain lefs blood in them.

The arteries, veins, and capillaries of a living animal, are commonly contracted to a greater degree than they can be by their elafticity. The elafficity is commonly endeavouring to diftend them.

If the veffels are emptied to fuch a degree that they cannot adapt themfelves to the blood, and continue cylindrical, the animal dies.

The most effential effort of the living power, is, to adapt the vessels to the blood.

The COURSE of the CIRCULATION of the BLOOD.

THE blood paffes from the left auricle of the heart into the left ventricle, from the left ventricle into the aorta, and from thence by the fmaller arteries to the capillaries in every part of the body; from thefe it returns by the veins to the right auricle of the heart. The blood, for the most part, moves in one uniform direction in each artery, viz. from the heart towards the capillaries: it also moves in one uniform direction in each vein, viz. from the capillaries towards the heart; but although it moves in general from the arteries through the capillaries into the veins, yet its direction in any one capillary may be, and often is, altered and reverfed.

Both the general velocity with which the blood moves through the whole fyftem, and the proportional velocity of its motion in particular veffels, are conftantly varying.

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(33)

The POWERS producing the CIRCU-LATION of the BLOOD.

THE force with which the blood moves in the veins, and the muscular contraction of the auricle, which takes place during the relaxation of the ventricle, propels the blood into the ventricle.

When a certain quantity of blood is propelled into the ventricle, its mulcular fibres contract, being probably flimulated thereto by the blood.

This contraction of the muscular fibres of the right ventricle diminishes or obliterates it, and propels the whole, or part of the blood contained in it, into the aorta; the valve placed at the opening of the auricle into the ventricle, preventing its return into the auricle.

When the ventricle has emptied itfelf into the aorta, it relaxes and receives a fresh quantity of blood from the auricle; the blood being prevented from returning from the aorta by the valves placed at its opening into the heart.

The action of the heart tends to produce an equal and uniform circulation in every part of the body.

The CIRCULATION doth not depend on the ACTION of the HEART alone.

The circulation is not equal and uniform through the whole body, but the fame quantity of blood flowing from the heart, a greater proportion of it fometimes circulates through one part, fometimes through another. If the heart be the fole power propelling the blood forward, the circulation can only be increased in any one part by an increase in the fize of the vessels, or removal of some obstruction to the circulation there, or a diminution of the fize of the vessels, or obstruction to the circulation in the rest of the body; and *e contra* the circulation can only be diminished in one part by a diminution of the fize of the vessels, or obftruction to the circulation there, or an increase of the fize of the vessels, or a removal of some obstruc-

The principal caufes producing an alteration of the fize of the veffels, or an obstruction to the circulation, are,

tion to the circulation in the other parts of the body.

1/1, An increase or diminution in the disposition to contraction in the capillary vessels, or in the external preffure.

2dly, The meeting of the ftreams of blood in the anaftomofing veffels.

3dly, The attraction of the blood to the fides of the veffels.

The difpolition to contraction in the capillaries of a particular part, or the external preffure, may be increafed, fo as actually to produce a diminution of the fize of the veffels of that part, (notwithftanding the action of the heart,) and by confequence a diminution of the circulation of the blood in that part.

As the obstruction arising from the meeting of the streams of blood in the anastomosing vessels depends on the velocity with which it moves, it tends to render the circulation in a part equal, by preventing an increase or diminution of it.

As the blood is thoroughly mixed in the right ventricle of the heart, and is diffributed from thence to the different parts, no alteration in its attraction to 2 the the fides of the veffels can produce an increase or diminution of the circulation in a particular part.

It has been fuppofed, that a vifcidity in the fluids, or an increase of the fize of their particles, often produced an obstruction to the circulation; but this opinion has not been proved, or rendered probable, by any experiment hitherto made public: on the contrary, the red globules appear to be always nearly of the same fize, except when they are broke down by putrefaction: the serum and coagulable lymph feldom or ever appear more viscid than when in their common flate; and, if they were, their viscidity would affect the fystem equally.

The difposition to contraction in the capillary veffels, or the external preflure, may be so much diminished, as that the action of the heart continuing the fame, the fize of the vessels of a part may be increased, so as actually to occasion a greater circulation of blood in that part.

If the heart be the fole caufe of the circulation, the only material alteration that could take place in the proportion of the circulation in the different parts, must depend on an increase or diminution of the difposition to contraction in the vessels, or on an alteration in the external preffure.

But the circulation may be increased in a particular part, the motion of the heart continuing the fame, by causes which do not diminish the disposition to contraction of the vessels of that part, nor increase the disposition to contraction in the vessels in the other parts of the body, nor produce any effect on the external pressure.

Therefore the heart is not the fole power which propels the fluids through the part in which the circulation is thus increased.

The caufes capable of increasing the circulation in a part, are generally such as tend to excite muscular motion, and are called stimuli.

Some part of the body, brought into action by these ftimuli, is capable of increasing the circulation independent of the action of the heart.

The arteries are endowed with a mufcular motion, by which they may increase the circulation in a particular part, or affift the heart in the general circulation of the blood.

The arteries at each contraction of the heart are diffended; at each relaxation they contract.

This alternate contraction and dilatation might depend on their elasticity.

If their contractions and dilatations depended on their elasticity, their fize at their utmost contraction in the living body should be equal to that produced by a fluid injected into them, with a force capable of overcoming the refistance the blood meets with in the capillary vessels, which, in the human body, is probably equal to eight feet perpendicular height of water.

But their fize, even at their utmost ftate of dilatation, is lefs than that produced by a fluid injected into them, with a force equal to one foot perpendicular height of water, when the animal is dead.

Therefore their contractions and dilatations do not depend on their elafficity.

The additional force which occasions an increase of the circulation, in a particular part, must depend on the action of the arteries or capillaries.

As the capillaries do not contract and dilate alternately, and as the direction of the blood in any one of of them is quite undetermined, this additional force cannot depend on the action of the capillaries.

If the arteries contracted and dilated by their elafticity, no additional force could be applied from their contraction and dilatation; fince the heart would lofe more force, in diffending the arteries, than they would re-apply to the blood in contracting.

If the arteries, upon being diffended by the blood thrown into them by the heart, are excited to a mufcular contraction, and when they have performed this contraction relax, and like the ventricle of the heart, receive the blood eafily into them, and when they are again diffended, are excited to a fecond contraction, they may apply an additional force to that of the heart, fo as to promote the circulation through the whole body.

If fuch contractions and dilatations be greater in any particular part, they will promote the circulation in that part; in as much as, when they are relaxed to a greater degree, they will fuffer the blood to pafs through them more readily into the capillaries; and, when they contract, they will empty themfelves more thoroughly into the capillaries.

The arteries have a mufcular contraction and dilatation, fimilar to that of the ventricles of the heart, by which they apply an additional power to that of the heart, fo as to promote the general circulation through the whole body, and often to increase the proportional circulation in a particular part.

The motion of the blood is regulated by the action of the heart and arteries, and the contraction of the capillary veffels; and thefe are measured by the pulse.

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The PULSE.

(38)

Indicates *M*, THE firength of the contraction of the heart,

2dly, The quantity of blood thrown out at each contraction,

3dly, The number of contractions,

4thly, The regularity of its action, as to ftrength, quantity or frequency,

5thly, The strength of the action of the arteries,

6thly, The irrtiability of the veffels,

7thly, The medium diameter of the arteries,

Sthly, The quantity of blood in the veffels,

9thly, The contraction of the capillaries, Weaknefs,

by

Strength,

It is called Strong. Weak.

2113

Fulnefs, Smallnefs,

Frequency,

Slownefs,

Full. Small.

Frequent. Slow.

Regular.

Regularity, Irregularity, Intermiffion,

Hardnefs, Softnefs, Redoubling, Trembling,

Quicknefs, Regularity, Slownefs,

Dilatation, Contraction,

Oppression, Smallness, Obstruction, Freedom, Irregular. Intermittent.

Hard. Soft. Redoubling. Trembling.

Quick. Regular. Slow.

Great. Small.

Oppressed. Empty.

Obstructed. Free.

The STRUCTURE of the LUNGS.

THERE is a fet of veffels in the lungs which contain air, and another which contain blood.

The AIR VESSELS.

The air vefiels confift of a pipe, called the trachea; one end of which opens into the throat, and communicates with the amtofphere by the noftrils and mouth; the other divides into branches which go to every part of the lungs, and whofe ends open into fmall cavities, or cells.

The air in the lungs is generally in motion; for either that which is at prefent contained in the cells, is paffing through the trachea into the atmosphere, or a fresh parcel is passing from the external atmosphere through the trachea into the cells.

The whole of this motion is called refpiration: when the air is paffing in, it is called infpiration; when it is thrown out, expiration.

When the thorax is enlarged by the action of one fet of its muscles, the preffure of the external atmofphere forces the air into the lungs; the other fet of muscles which contract the thorax when put in action, force the air out of the lungs into the atmosphere. But the preffure of the atmosphere on the furface of the body counterbalancing its preffure on the furface of the lungs, neither the muscles of inspiration nor those of expiration are affished or counteracted by it.

If the air continues at reft in the lungs for many minutes, or if a man continues to refpire the fame air, or if he breathes air that hath ferved for the inflammation of fuel or pure fixable air, he dies.

It is not determined whether pure inflammable air will ferve for refpiration.

Some vapours kill immediately if taken into the lungs, independent of their being unfit for refpiration.

The BLOOD-VESSELS.

The air veffels of the lungs confift of two fets, viz. 1/l, The Pulmonary. 2dly, The Bronchial.

The PULMONARY VESSELS.

The right fide of the heart is fimilar to the left, excepting that both the auricle and ventricle have fewer muscular fibres, and that the auricle receives blood from the venæ cavæ, and the ventricle throws it into the pulmonary artery.

The pulmonary artery begins at the right ventricle of the heart, and goes from thence to every part of the lungs in the fame manner that the aorta goes to every part of the body.

When the pulmonary artery hath divided into very fmall branches, thefe do not open into one another and form anaftomofing veffels like the fmall branches of the aorta; but they join again, and form veins, which uniting together, go to the left auricle of the heart commonly in five trunks.

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(41)

The CIRCULATION of the BLOOD through the PULMONARY VESSELS.

The blood paffes from the right auricle into the right ventricle, from the right ventricle into the pulmonary artery, from the pulmonary artery into the pulmonary veins, and from the pulmonary veins into the left auricle.

The POWERS propelling the BLOOD through the LUNGS.

The muscular fibres of the right auricle contracting, propel part of the blood contained in it into the right ventricle, and they are affifted by the force with which the blood moves in the yeins.

The muscular fibres of the right ventricle being flimulated to contract when it is full, propel part or the whole of the blood contained in it into the pulmonary artery, the blood being prevented from returning into the auricle by the valve placed at the opening of the auricle into the ventricle.

After the ventricle has contracted, it relaxes and receives the blood from the auricle, it being prevented from returning from the pulmonary artery by the valves placed at the opening of the pulmonary artery into the ventricle.

The blood is thrown by the right ventricle through the pulmonary artery and veins into the left auricle.

Perhaps the pulmonary artery hath a muscular power, fimilar to the muscular power of the other arteries, by which it promotes the circulation of the blood through the lungs. The blood meets with the fame obftructions in its paffage through the lungs that it does in its paffage through the other parts of the body, excepting that there being no anaftomofing veffels, there is no obftruction from the ftreams of the blood meeting in them, and oppofing each others motion.

The blood meets with fome additional obftructions in its paffage through the pulmonary veffels, befides those it meets with in the other parts of the body, viz.

1/l, The motion of the lungs in refpiration, as there are no valves in the veffels, tends to retard the circulation, although the reverse hath been afferted.

2*dly*, If a fufficient quantity of refpirable air be not received into, and thrown out of the lungs, the motion of the blood in the pulmonary veffels is confiderably retarded.

The BRONCHIAL VESSELS.

An artery arifes from the aorta, and fpreads itfelf through the lungs, terminating in anaftomofing capillary vefiels, which open into veins in the fame manner as the other branches of the aorta in other parts of the body.

The blood circulates in these vessels in the fame manner as in the other vessels, arising from the aorta in other parts of the body.

(43)

The EXTRAVASATION and ABSORPTION of the LYMPH.

PART of the fuperfluous water and ferum is continually paffing through the fides of the veffels, particularly the capillaries, into the cellular membrane, and all the cavities of the body, fo as to keep their furfaces moift.

It has been fuppofed that they paffed through tubes appended to the fides of the blood-veffels; but fuch veffels have never been demonstrated, nor is there any reason for fuppofing that they exist, excepting in the glands.

The fluids, commonly extravafated, have been called the lymph.

It is uncertain whether it paffes through the accidental pores in the fides of the veffels, or by cylindrical organifed holes; but it is most probable that it paffes through organifed holes, as the fecretion is regular and constant.

The pores or veffels it passes through, are called exhalants.

It is abforbed by the lymphatics.

A lymphatic is a tube nearly cylindrical, divided by valves, fo as to have the refemblance of joints.

They arife from the cellular membrane, and cavities, and the greatest part of them go to the thoracic duct.

The valves allow the lymph to pass from the cavities to the thoracic duct, but prevent its passing from the thoracic duct to the cavities.

The lymphatics in paffing from the cavities to the thoracic duct, go through the lymphatic glands.

The ftructure and use of these glands are not as yet ascertained.

The thoracic duct is a tube which begins near the diaphragm, and commonly terminates in the left fubclavian vein.

At its opening into the left fubclavian vein, there is a valve which allows the lymph to pass from it into the vein, but prevents the running of the blood from the vein into the thoracic duct.

Some of the lymphatics terminate in veins. These are fimilar in ftructure to those which terminate in the thoracic duct,

The Powers producing the EXTRAVASATION and Absorption of the Lymph.

The contractile power of the blood-veffels fqueezes the lymph into the cellular membrane and cavities.

The quantity thrown out is in proportion to the force of the circulation, the fluidity of the substances contained in the blood-veffels, or the quantity of the more fluid substances, and the degree of contraction of the capillaries and exhalants.

The joint of a lymphatic opening into a cavity, endeavours to fill itfelf from that cavity by its action as a capillary tube, the valves preventing the return of the lymph from the other part of the lymphatic. In like manner a lymphatic may fill itfelf entirely from the cavity in which it terminates, but its action as a capillary tube will not tend in the fmalleft degree to propel the lymph into the veins.

It is most probable that the joint of the lymphatic, next to the cavity, having absorbed a sufficient quan-

tity

tity of lymph to fill it, is flimulated to contract and propel the fluid into the next joint, and fo on to the thoracic duct, or vein, in which it terminates; and having emptied itfelf, and being relaxed, it fills itfelf again from the cavity, and fo continues to act: for there is apparently no other power in the body capable of producing a regular flow of the lymph through the lymphatics into the blood-veffels.

For in a living animal where the veins are contracting, and preffing the blood, if one end of a capillary tube terminate in a vein, and the other in a cavity; and if there be no action in that tube, excepting that which arifes from its being a capillary one, or from the motion of the blood in the vein; if there be any motion in that tube after it is full, it will always be from the vein into the cavity, and never from the cavity into the vein, let the tube be of any fize or fhape whatever.

Further; the alternate preffure of the lymphatics arifing from the alternate contractions and relaxations of the blood-veffels, or muscles, is not sufficiently powerful, universal, or equal, to produce a regular flow of the lymph through the lymphatics into the blood-veffels.

Neither does the cellular membrane and cavities force the lymph into the lymphatics, and through them into the veins.

The extravafation of fluids from the blood-veffels into the cellular membrane and cavities, and their reabforption, generally take place in the above manner.

Sometimes the coagulable lymph is thrown out by the exhalants.

When the coagulable lymph is thrown out, it most commonly coagulates. If it coagulate, it cannot be taken up by the lymhatics, till it be redifiolved.

In many cafes it rediffolves, and is abforbed much fooner than it can be rendered foluble in water, by putrefaction when out of the body. At other times it continues in the cavity for many years.

The red part of the blood is alfo fometimes thrown out by the exhalants. In this cafe, its particles are broke down probably by the first stage of putrefaction, and it is afterwards reabforbed.

The fame things may happen, if the red particles and coagulable lymph are extravafated in confequence of the rupture of a blood-veffel.

In particular parts, as in the corpora cavernofa penis, the extravafation and abforption is probably performed in a different manner, and by different veffels.

All abforbent veffels must have a power of propelling the fluids into the blood-veffels, fufficient to overcome the force of their contraction, by which they endeavour to propel the blood out of any opening. (47)

The HEAT of the HUMAN BODY.

THE bodies of quadrupeds have a difposition to maintain the fame degree of heat nearly.

The heat of quadrupeds of the fame fpecies is generally the fame, efpecially in mankind.

The common heat of the human body in health, is ninety-eight degrees of Fahrenheit's thermometer.

The heat is the fame throughout the whole body, excepting that a cold fubftance applied to the fkin diminifhes its heat; and the heat of the blood, flowing from a vein in an extremity that is exposed to a cold atmosphere, is reduced two or three degrees.

Otherwife the heat continues the fame, whether that of the atmosphere, or other furrounding bodies, be greater or less than ninety-eight degrees, unless when it produces a difease; the consequence of which is an increase or diminution of the heat of the body.

The body is capable of refifting different degrees of external heat or cold, according to the habit it has acquired. There are inftances of its bearing 20 degrees below 0 of Fahrenheit's thermometer, with very moderate cloathing, and 115° above, without alteration.

The heat may be increased or diminished by alterations in the body itself, especially in diseases.

The heat has feldom been observed to be less than ninety-four, or more than a hundred and ten degrees of Fahrenheit's thermometer. An increased action of the living power in any part, or in the whole body, increases the heat; and *e contra*, a diminution of the action of the living power, diministry the heat either in quantity or degree.

Fluids rubbing against folids, or very small particles of a folid immersed in a fluid rubbing against one another, or against a folid, produce no sensible heat; therefore neither the friction of the blood against the vessels, nor the friction of the red particles against one another, or against the vessels, produces, maintains, or regulates the heat of the body.

It has not been proved, by any experiment hitherto made public, that the fermentations producing, or deftroying the fluids, generate heat; and if it were, thefe fermentations do not go on fo regularly, univerfally, or conftantly, as to produce, maintain, or regulate the heat of the body.

The heat is not at all in proportion to the evaporation, as a double quantity evaporated by the infenfible perfpiration, makes no alteration in the heat.

The power which produces, maintains, and regulates the heat of the human body in health, produces heat when the furrounding fubftances are heated to a lefs degree than 98 of Fahrenheit's thermometer, and cold, when they are heated to a greater degree.

The NERVOUS SYSTEM:

(49).

THE brain is a foft mass; internally of a white colour, externally of a greyish or ash colour.

It is furnished with blood-vessels in the same manner as the other parts, excepting that larger arteries anastomose, and the smaller veins enter more suddenly into a large trunk, whose sides are of a firmer texture.

In quadrupeds it is contained in the cavity of the , head.

In man it is in a larger proportion to the whole body, than in any other quadruped, or any bird or fifh hitherto known.

From the white part maffes of fibres arife, which go . to every part of the body. These are called nerves.

One large mass passes down through the cavity of the spine, and is called the spinal marrow.

A little of the cineritious part, is contained in the middle of this, and also in the optic nerves.

The brain, fpinal marrow; and nerves, are covered with membranes of a much firmer texture.

The nerves proceed from the brain in trunks, which branch out as they pass to the different parts, of the body.

Upon examining the trunks with a microfcope, they appear to confift of very fmall fibres, which are only feparated from one another in the branching.

In their paffage they fometimes join again, forming roundifh maffes called ganglions, from whence they proceed to the different parts.

When they divide into very fmall branches, they have been supposed to become foster, and seem to go to every the smallest part.

The SENSIBILITY, MOBILITY, and IRRITABILITY of the Body.

(50)

THE fenfibility is a property of the body, by which external fubftances applied to it, excite fenfations in the mind.

The mobility is an original power of motion, by which certain parts of the body are capable of moving themfelves without any external motion impreft.

The Irritability is a property of the body, by which external applications to particular parts excite a motion in the moveable parts, independent of the motion impreft.

These properties depend on the brain and nerves.

The SENSIBILITY.

The fenfibility depends entirely on a part's being connected with the brain by the nerves; for,

If the nerves going to any part be cut through, the fenfibility is loft.

If the nerves going to any part be moderately comprest, the fensibility is diminished.

If the nerves be comprest strongly, the fensibility is lost.

If the preffure be foon removed, the fenfibility recurs.

If the prefiure be continued for a long time before it is removed, the fenfibility returns more flowly, or not at all.

Pref-

Pressure on the brain, diminishes the sensibility of the whole body.

If a fmall branch of a nerve be cut through, fo as to take off the fenfibility of a part of the fkin, it may be reftored in time.

The fenfibility may be impaired, or loft, without any fenfible preffure on the nerve, or alteration of its ftructure.

When there is no wound in the body, the fenfations appear to be in the place where the application exciting them is made.

If an extremity be cut off, an application made to the flump, may produce fenfations which appear to be in the part amputated.

Query. Can a fenfation be excited apparently in a part by an affection of the nerve going to it, the body being whole?

Every part of the body is capable of fenfation in a found or morbid state.

The bones and cartilages do not appear to be fenfible in a found flate, whatever application be made to them; but in a morbid one they may become fenfible.

All the other parts of the body appear to be fenfible in a found flate; for the differition of a part confiderably beyond its prefent disposition to contract, either by its muscular power or elasticity, is capable of exciting fensations in every other part of the body.

There are applications, which are capable of exciting fenfations in one part, that produce no fuch effect in another.

Some of the fenfible parts are only capable of fenfation from diffention in a found flate, fuch as the membranes.

One part may be fenfible to an application which another is not, and the fecond part may be fenfible to another application, which the first is not; as the effluvia of muscle do not affect the eyes, although they affect the nostrils, and the rays of light affect the eyes, but not the nostrils.

Some parts of the body are only capable of the fenfation of pain; others are capable of various fenfations, of which pain is always one.

Some applications are capable of exciting pain only; others may excite various fenfations.

Every fenfation excited in a very great degree, is painful, and feveral are also painful from being very weak.

Those parts of the body, which are capable of a variety of sensations, are generally called the organs of the sense. These are,

The fkin, the mouth, the noftrils, the eyes, the ears; the ftomach is capable of feveral fenfations befides pain, but not of fo great a variety as the organs of the fenfes.

Some other parts of the body are also capable of fome fensations not painful.

All the fenfible parts may have their fenfibility increased or diminished.

The MOBILITY and IRRITABILITY.

Parts capable of original motion, are called the moving parts.

In many of the parts capable of original motion, there are red fibres called mufcular fibres.

In fome of the parts capable of original motion, no fuch fibres have hitherto been demonstrated.

All the parts of the body are not capable of original motion.

The mufcles, blood-veffels, lymphatics, fecretories of the glands, and fkin, are capable of original motion.

The moving parts are capable of contracting beyond that degree of contraction which would arife from their elafticity.

All the actions of the body, and all the power which it exerts, depend upon the contraction of the moving parts.

When a muscular fibre, or any other moving part, continues in action for a confiderable time, it does not, in general, exert one continued contraction, but a number of alternate contractions and relaxations. The relaxations, when the body is firong, or the whole ftrength is not exerted, are often hardly diffinguissable; but when the habit is weak, or the whole force exerted, they become very apparent.

A contraction may however probably continue for a very long time, without any intermediate relaxation, as in a fpafm.

When any motion takes place in confequence of a relaxation, it is from the elaflicity or weight of the part, or from fome external power.

The original motions are produced by volition ideas of the mind, or certain external applications, called ftimuli.

There must be the fame intercourse, which is neceffary for sensation, between the moving part, and the brain, by means of the nerves, to render volition capable of exciting a motion in it.

Many of the moveable parts are incapable of being put in motion by the will.

An idea of the mind may excite a motion independent of, and contrary to the will, provided the part be connected with the brain by the nerves, as for fenfation.

The will may acquire a power over a moving part, which it could not affect originally. The motions excited by the will are called voluntary motions; those excited by ideas, or ftimuli, independent of, or contrary to the will, are called involuntary.

All the parts of the human body, capable of voluntary motions, have red muscular fibres.

The will and ideas are both capable of producing contractions and relaxations in the moving parts.

If the communication between the brain and a moving and irritable part, be cut off by cutting thro' the nerve, a motion may be ftill excited in it by a ftimulus; hence ftimuli may excite motion without affecting the brain, and therefore all the motions excited by them, are not begun in the brain, and carried along the nerves to the moving part.

If a nerve be cut through, fo as to leave a portion of it adhering to a moving part, a stimulus applied to the nerve, may excite a motion in the moving part. Hence, the action of a nerve upon a part, may excite a motion in it; and the motions excited by the nerves, do not all arife in the brain.

If the communication between the brain and a moving part by the nerves continues, a ftimulus applied to the brain may excite a contraction of the moving part.

The motions produced by the application of flimuli to moving and irritable parts are apparently the fame, whether the part be connected with the brain by the nerves, or not; excepting that the motions excited, become more languid after the moving part has been feparated fome time from the brain, and at laft the power of motion in it is entirely loft.

The fame things are true of the motions excited by the application of flimuli to the nerves going to a moving part.

Hence₂

Hence, it is probable, that the motions excited by the application of flimuli to a moving and irritable part, or to the nerve going to a moving part, do not arife in the brain, but immediately in the nerves, or in the part; the brain in this cafe only keeping up the life of the part, and rendering it capable of motion.

When a ftimulus produces a contraction in a moving fibre, the force of that contraction is often far greater than the force with which the ftimulus was applied. Therefore, when a ftimulus excites a motion, it is not in confequence of a communication of the power employed in applying that ftimulus : nay, the motion may be the very reverfe of that which would have been produced by the exertion of that power.

When a ftimulus applied to a nerve produces a contraction in a moving fibre, it is a queftion whether the motion is excited in the nerve, and communicated to the fibre, or produced immediately in the fibre, without any motions being excited in the nerve; for in this laft there is often no apparent motion excited.

It has been conjectured by fome, that the motion was communicated by a fluid flowing through the nerves as tubes; by others, that it was communicated by vibrations; and by others, that it arifes from an elaftic vapour furrounding the nerves: but none of these conjectures are founded on experiment, neither are any of them any ways capable of accounting for the appearances.

As the influence of a ftimulus on a moving fibre is not occafioned by any mechanical communication of motion, may not a ftimulus applied to a nerve, exert its influence on a contractile fibre, without any

mecha-

mechanical communication by any motion running along the nerve.

If the brain is not difeafed, and two parts of the body communicate with it by the nerves, as for fenfation, an application made to one of these parts may excite a contraction or relaxation in the other, although none of the substance applied, be carried from the one to the other, and although no fensation be excited by the stimulus. Hence a medicine applied to one part of the body, may produce an effect upon another, although none of that medicine be carried to the part on which that effect is produced.

The effect of an application upon a part at a diffance from that where it is made, may be the fame which it would have produced if applied to that part; or it may be the reverfe, or totally unconnected with it.

Quer. May not the application in this cafe influence the diftant part, without any communication from a mechanical motion running along the nerves of the one part to the brain, and from the brain by the nerves to the other part?

An application to one part, may produce a motion in another, although it would have had no effect, if it had been made to the part itfelf

A ftimulus applied to a part incapable of original motion, may excite a motion in a moving part at a diftance.

If the communication between the brain and any part of the body, by means of the nerves, be cut off, applications made to that part, will not affect the other parts, nor will applications to the other parts, produce motions in that; unlefs the nerves be cut off from a muscle, whose fibres have been accustomed to contract at one and the same time, such as the heart.

In

In that cafe, if you flimulate one of these fibres, the whole are brought into immediate contraction; those not flimulated, contract, to all appearance, as soon as the one to which the flimulus is applied.

As in this cafe the communication between the fibres by the nerves is cut off, and as after cutting thro' the nerves of a fmall part of the body, the fenfation may in time be reftored, is there not a communication of nervous influence, between the parts that are in contact, independent of the nerves ?

The parts on which ftimuli are capable of acting fo as to produce motion, are called the irritable parts.

All the parts of the body are irritable in a found ftate, excepting the bones, cartilages, and tendons.

All the parts of the body may become irritable in a morbid state.

Stimuli may produce motion in a diffant part, when applied to a part incapable of original motion; or, in other words, all the irritable parts are not moving parts.

An application that produces relaxation, or diminishes contraction, is called a fedative.

A substance may act on one part as a stimulant, on another as a sedative.

A fubstance may act on one part as a ftimulant or fedative, and have a lefs effect, or none at all, when applied to another, although otherwise equally irritable. Such ftimuli are called specific.

There are some parts upon which stimuli in general produce greater effects than they do upon others.

A greater number of substances act also upon these parts,

The membranes, ligaments, and blood-veffels, excepting the heart, are incapable of being affected by any other ftimulus but differition.

Some of the applications capable of affecting the moving parts, tend to deftroy the fibres by mechanical or chemical effects; fome of them have no mechanical or chemical power of action.

The irritability and mobility of a part may be increafed, diminished, or entirely lost.

CUSTOM and HABIT.

CUSTOM is the frequent repetition of any application to the body, capable of affecting the fenfible or irritable parts, or it is the repetition of any action or motion of the body.

Habit is the effect of fuch repetition.

An application, producing a fenfation, may have its power increafed or diminished by cuftom.

If the mind pays particular attention to any impreffion, its force and diffinctness is increased. Hence arises the improvement of the eye, ear, &c. in diffinguishing objects in painting, tones in music, &c.

If the imprefiions are very ftrong, fo as to excite great attention, their force is increased.

If the impressions are not attended to, their force is diminished. Hence after living for some time near any thing producing a great noise, the noise is hardly heard.

The power of the will, in producing motion, may be increased by custom, and diminished by difuse.

The will, in frequently producing a motion, may not only have its power increafed, but it is alfo capable of producing that motion with greater accuracy, and by frequent attempts may acquire a power over a moving part, upon which it has naturally little or no influence.

A motion may arife from a volition in confequence of cuftom, which was not naturally connected with it; as a man in turning in a loom does not will the motion of his hand, but of the end of the chizel.

Quer. Can a man produce two diffinct motions by his will at once; or, when two diffinct motions are produced, does the will produce them fucceffively? The imprefion arifing from one volition remaining till the mind renews it, after having produced the other, in the fame manner as the imprefion of a flame making a circular motion, remains on the eye, fo as to give an idea of a compleat circle.

The power of producing two diffinct motions, apparently at the fame time, is greatly increased by custom.

From the above circumftances the facility of execution acquired by cuftom arifes.

The power of an idea in exciting motion, may be increased or diminished by custom.

An idea ftrongly impreft on the mind, is for the most part more powerful in exciting a motion, than one weakly imprest.

The power of an application in impressing an idea, may be increased or diminished by custom, as is above described, and of consequence the power of an idea in exciting motion.

Supposing the impression on the mind the fame, if an idea has frequently produced a motion, its power is increased. On the contrary, if an idea has been often excited, and if the motion depending upon it has by any means been prevented, its power is diminished, or loft.

The action of an application producing, diminifhing, or altering the mode of, contraction of a moving part, and which at the fame time has no effect on the mind, may be increased or diminished by custom.

If it be often applied, fo as always to produce its effect, its power, or the certainty of its action, is for the most part increased.

An application of an equal apparent force does not always produce the fame effect. If the fame quantity of ipecacuhan be twice exhibited at the interval of feveral days, it may vomit at the first exhibition, and not at the fecond; or it may produce vomiting at the fecond exhibition, and not at the first.

In applying medicines, which do not act as fimple ftimuli, their particular effect cannot be increased by increasing the dose, they being converted into fimple ftimuli. Thus small doses of faccharum faturni produce costivenes, but a very large dose frequently purges.

An application frequently repeated, fo as to produce its proper effect, often becomes more conftant and uniform in its action, although it may become neceffary that it fhould be applied in a greater degree.

If an evacuating medicine be repeatedly exhibited, it generally requires a larger dole at the fecond, and fome of the fubfequent exhibitions, to produce the fame effect as the first; but if these produce the effect, the power of the medicine is afterwards increased.

The more violent the effect of any application, the more is its power increased by repetition. If an application be made in fo fmall a degree, as not to produce any effect, or if its effects are by any means counteracted, its power is diminished or lost.

The repeated application of fome medicines in any circumftance diminishes their powers.

All the natural powers of action in the body are increafed by frequent exertion.

If two or more fibres have been accustomed to contract together, either by the action of the will, by an idea, or by stimuli; or if the contraction in one of them be produced by the will, while the other is brought into action at the fame time by a stimulus, the producing of a contraction in the one by an application to it alone, will produce a contraction in the other. If they be fibres of the fame muscle, and acted upon by a stimulus, this will happen after the communication with the brain by the nerves is cut off, but not otherwife.

If, after this habit is acquired, one of these fibres is made to contract frequently, while the other is prevented from contracting, the habit is lost or destroyed.

If any motion, or flate of the body, be repeated at a particular period of time, it will often return at that period, although no other caufe be applied but the habit acquired.

A habit may be deftroyed by counteracting and preventing its effects.

Two habits may be fo connected, that preventing the one from taking place, may prevent the effects of the other.

Cuftom has also a powerful influence on the mind.

See .

EXERCISE,

(62)

EXERCISE, REST, SLEEP.

WHEN a moving part is brought into action by the will, an idea, or ftimulus, that action fometimes ceases upon removing the cause, fometimes it continues after the cause is removed. This last frequently happens in the production of diseases.

When it is neceffary for the continuation of an action, that its caufe fhould be continually or repeatedly applied, the original power feems gradually to be exhausted, fo that the motions for the most part become gradually weaker, and at last are not to be produced, as in the cafe of exercise.

There are some actions which are necessary for life; that are continued by the application of stimuli, and nevertheless do not exhaust the original power; such as the action of the heart, the peristaltic motion of the intestines, &c.

If these actions are increased beyond their common pitch, or beyond what can be allowed by the present ftrength of the fystem, they also exhaust the original power.

A great exertion of the faculties of the mind alfo; exhaufts its powers.

Reft reftores both to the body and mind their powers of action

In perfect fleep, both the body and mind are at reft, excepting in those particulars where an exertion is neceffary to life. These exertions are in the alternate contractions of the heart and arteries, the motion of the muscles in respiration, the tone of the muscular fibres, blood-vessels, and other moving parts, the action of the lymphatics and excretory ducts, the peristaltic motion of the intestines, &c. The common exertions of the body and mind, when a man is awake, exhauft to fuch a degree, as to require that reft which is found in fleep to allow the original power to recruit itfelf.

In fleep the mind is often brought into action, fometimes from affections of its own, fometimes from affections of the body. The body alfo exerts other powers befides those necessfary for life. In these cases the original power is less recruited, and that in proportion to the exertion.

Although the original power may be fo far exhaufted as to require to be recruited by fleep, that flate may neverthelefs be prevented by any thing exciting great attention of the mind, by applications to the body producing uneafinefs or pain, or by an increafed action of any of its parts, or by any action or contraction which continues after its caufe is removed.

The fame caufes may render fleep lefs perfect, although not fufficient to prevent it altogether.

Although reft is not compleat at the beginning of fleep, it has a tendency to become fo during this flate of the body. In particular, all actions and contractions remaining after their caufe has been removed, are apt to go off.

During fleep the original power appears to be fo much accumulated, as to give a disposition to action, both to the mind and body, from the flightest cause, and this state of the body goes off of course.

At the beginning of fleep, the reft is generally lefs perfect; it becomes gradually more fo for a certain time afterwards. When the original power is recruited, the mind begins to be put in action, and at laft the whole fystem, at which time fleep goes off.

A continued or firong action of one part of the body, may not only exhauft the original power in that part, but also in all the others.

A great

A great exertion of the powers of the body, may exhauft the powers of the mind, and é contra, a great exertion of the powers of the mind, may exhauft those of the body.

(64)

A frequent exertion of the original power in one part of the body, tends to ftrengthen that part, but to weaken the other.

An exertion of the original power, increases the loss of fluids, and renders a greater quantity of food neceffary. Hence animals that require a confiderable quantity of nourifhment when awake, may fleep for feveral months without any being taken in.

A lofs of fluids generally increases the powers of digestion, excepting when they are difordered by difease.

A moderate exertion of the powers of the body, in proportion to the prefent ftrength, powers of digeftion, food, and fleep, tends to ftrengthen the whole body.

A violent or continued exertion of the original power, if it be not recruited by food and fleep, may weaken to that degree as to kill.

A repeated exertion of the powers of the mind, tends to ftrengthen its faculties; but at the fame time to weaken the original power in the body.

Unless the body be endowed with a certain degree of firength, the mind cannot exert itself powerfully.

Exercise of the powers of the body, tends to weaken the mind, except so far as is necessary to give the body the proper strength.

But a moderate exercise of the body and mind together, tends to ftrengthen the whole system, so that by custom the original power in the whole may be increased.

FINIS.

ELEMENTS OFTHE PRACTICE F -0 HYSIC. P II. PART the CONTAINING The HISTORY and METHODS of Treating FEVERS AND INTERNAL INFLAMMATIONS. By GEORGE FORDYCE, M. D. Member of the Royal College of PHYSCIANS, and Reader on the PRACTICE of PHYSIC, in LONDON. LONDON: Printed for JOSEPH JOHNSON, in Pater-Nofter-Row, MDCCLXVIII. Price Three Shillings Seweds

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THIS ESSAY

ON THE ART OF HEALING,

IN TESTIMONY OF THE AUTHOR'S

GRATITUDI,

IS WITH THE UTMOST RESPECT,

INSCRIBED

TO HIS GRACE

HUGH DUKE OF NORTHUMBERLAND,

A LOVER AND A PROMOTER

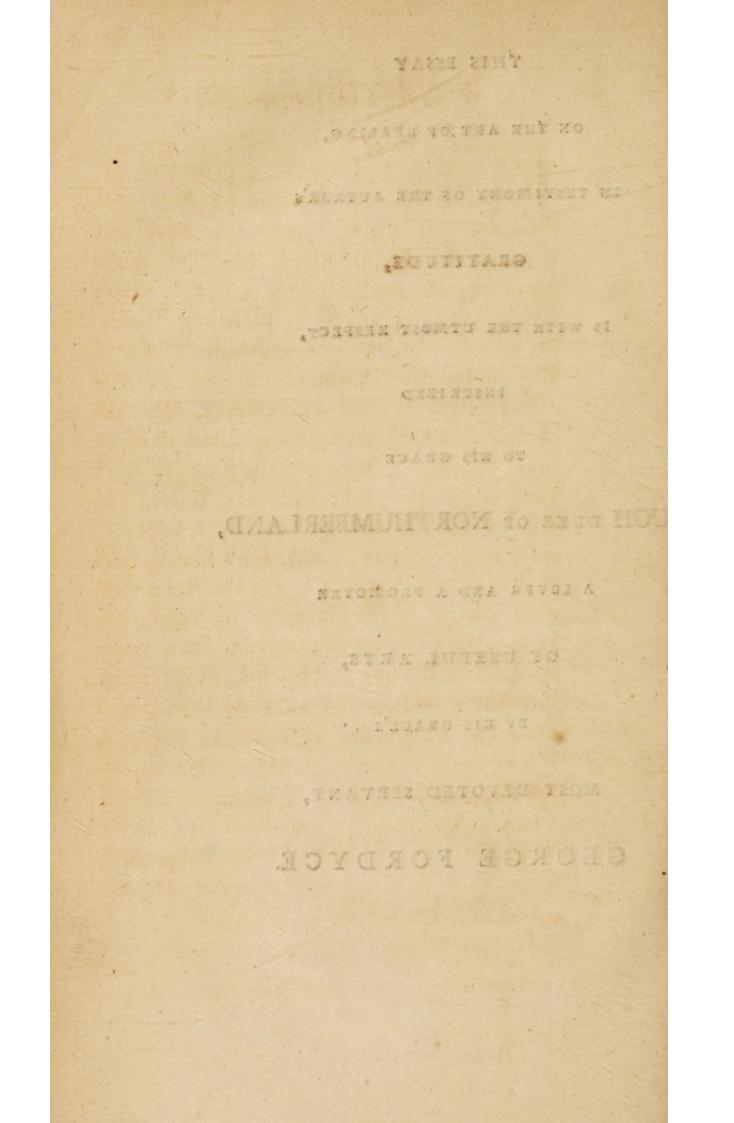
OF USEFUL ARTS,

BY HIS GRACE'S

MOST DEVOTED SERVANT,

GEORGE FORDYCE.

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Advertisement.

ROM an Opinion that a plain Defeription of Difeases, attempted with as much Precifion and as little Theory as poflible, and accompanied with the proper Remedies, might be ufeful; the Author of the following Sheets has been long employed in preparing Materials for fuch a Work, by an attentive Obfervation of Difeases themselves, by an accurate Comparrison of their Appearances, with the Accounts which have been given of them by other Writers, and by a careful Collation of those Accounts: With what Success the PUB-LIC will be able to judge, and has a Right to determine. A Part of this Work having been printed feveral Years ago, and the Notes from his Lectures on the Subject of it, which have been taken by his Pupils, having been handed about from Time to Time; he is apprehenfive they may have fallen into the Poffeffion of fome who are difposed to make an improper Use of them. And as no Man wishes to lose the Fruits of his Labour (efpecially in a Study which he has made the Bufinefs of his Life) the Author has ventured on the prefent Publication, intending to profecute what remains, with the utmost Dispatch and Care.

CONTENTS.	
	Page
THE General Doctrine of Fever —	I
Continued FEVERS.	> 1
The Plague	10
The Violent or Putrid Fever	13
The Inflammatory Fever	17
The Nervous Fever	19
INTERMITTENT FEVERS.	22
The General Doctrine of Inflammation	27
Internal Plegmonous INFLAMMATIC	NS.
The Inflammation of the Brain	36
The Angina	38
The Inflammation of the Lungs	43
The Inflammation of the Intercoftal Mufcles	49
The Inflammation of the Mediaftenum	53 54
the T A	
The Paraphrenites	55 ibid.
The Inflammation of the Inteffines	57
The Inflammation of the Stomach	60 61
The Inflammation of the Subflance of the Liver	62
The Inflammation of the Membranes of the Liver	65
The Inflammation of the Cellular Membrane, lying	- 11 - 18 - 14
under the Pfoas Muscle	66
The Inflammation of the Subflance, and external	68
Coat of the Kidney The Inflammation of the Bladder	72
The Inflammation of the Womb	78
all (ati. Faid to atominute of his Life) the	d'M
Inflammations of the Mucous Membra	ane.
The Catarrh	80
The Erifipelatous fore Throat, or fore Thtoat at-	in the
tended with Ulcers	91
The Cholera Morbus Diarrhæa and Dyfentery The Venereal Difeafe	95 105
The Gronorhza, Benigna, or Gleet,	128

The Symptoms, Distinctions, Prognostics, and Indications of CURE, with the REMEDIES in FEVERS.

(1)

*** ** HE Periods of FEVERS begin with all or most of the following Symptoms; (a) Languor, Wearinefs, Weaknefs, Infenfibility of the Extremities, Cold the Cold Fit, or and Trembling, Pain in the Back.

(b) Palenefs; a dry, foul Tongue, and Thirft; transparent Urine; Coffiveness, and Suppression of other Secretions; palenefs and drynefs in Ulcers; a quick, finall, intermittent Pulfe; Pain in the Limbs, Joints, and Forehead; Blindnefs; Delirium.

(c) Anxiety, Oppression and Swelling about the Precordia; quick and laborious Refpiration, fometimes with Cough; Rigor, and Horror; Flatulencies, Lofs of Appetite, Naufea, and Vomiting.

According to the Violence of these Symptoms at any Time of the Difeafe, th. Fever is violent; and when they are intirely carried off, it is cured.

Thefe are produced by

1st, Certain Paffions of the Mind fuddenly excited, the Principal of which are Fear, Grief, and Anxiety.

2d, Cold apply'd to the Body.

3d, Putrid, variolous, morbillous Matter or Pus, acting upon the fenfible Parts.

4th, Retention of certain Subflances in the prime Vie, as indigeflible Food in the Stomach, Faces in the Inteftines.

Symptoms of firft Stage.

Caufes

sth.

5th, Changing of Cuftoms or Climates, to which the Body has been habituated; at least affisting the other Caufes.

(2)

Thefe Caufes, except variolous, morbillous Matter and Pus, produce Fever immediately, without any previous Alteration.

Any two of them acting together, are more powerful in exciting the Difeafe, than one fingly.

They act more certainly on irritable Habits.

Unlefs when the Symptoms of the first Stage destroy the Patient, they are followed by

RIGOR, and HORROR; Heat rifing from the Przcordia, and diffufed from thence over the Body irregularly, unequally, and fluthing; a ftrong, full, obfructed Pulfe; or a very quick, fmall One; great Pain in the Head, and Joints; Stupor, and Delirium; univerfal Sorenefs; Rednefs arifing in different Parts irregularly; the Urine higher coloured, but perfectly transparent; fweating, in the Head and Breaft, or over the whole Body; partial Secretions; Petechiæ.

The Symptoms of the first Stage are gradually relieved.

At laft the Pulfe becomes free; all the fecretory Organs are relaxed; hence the Skin grows foft and moift, the Tongue likewife is foft and moift, the Belly is open, and the Urine in greater Quantity, not perfectly transparent when discharged, after a little Time becoming turbid and opaque, and at last depositing a copious Sediment: The Secretions are often greatly increased; there arises a copious and universal Sweat, or a Purging, or great flow of Urine.

The quickness of the Pulfe, and all the other Symptoms of the first and second Stage gradually subsiding, the Patient recovers his Health, but is confiderably weaken'd.

Or there arifes an Inflammation or Hæmorhage, in fome

2d Stage or hot Fit

Crifs

(.3)

fome Part of the Body, the Symptoms of the first Stage fuddenly difappearing, or being greatly diminished.

FEVERS are,

The EPHEMERA SIMPLEX, confifting of one Period only.

RECURRENT FEVERS confifting of more than one Period, no fingle one lafting more than 24 Hours, or till the Evening following.

RECURRENT FEVERS are,

The INTERMITTENT, in which the Symptoms of one Period go off intirely before a fecond arifes, or there are only left a flight Pain in the Back, a foul Tongue, fome Contraction and Palenefs on Part of the Skin, with Languor.

The REMITTENT, in which the Patient is greatly relieved; but the Pulfe continues quick, and feveral other Symptoms are not carried off before the fecond Period begins.

The CONTINUED, in which one Period begins before the former is confiderably abated.

In Intermittent Fevers, the Difeafe is more apt to recur at the End of 48 Hours from the beginning of the former Period, than at any other Interval; fuch are called *Tertians*: next to this it is more apt to recur at 24 Hours, when they are called *Quotidians*; or at 72 Hours, when they are called *Quotidians*; but there are Inflances of their recurring at all other Intervals.

QUOTIDIANS are frequently converted into TER-TIANS, and TERTIANS into QUARTANS.

The Symptoms indicating great Strength, often happen in Quotidians; the Symptoms of the first Stage are violent in Tertians; and those indicating Weakness, are frequently found in Quartans.

31.3

Varieties.

Species.

Types.

But

But Symptoms of Strength and Weaknefs occur fometimes in all the Types.

In Fevers recurring at the End of 24 Hours, when every fecond Period is more violent, they are called Double Tertians; when every third, they are called Triple Quartans.

In Continued Fevers the Exacerbations happen commonly in the Evening every Day, and are equable at the Beginning, but gradually increasing; in the Middle every other one is more violent; and at the End every third, when they likewife gradually decrease.

In continued Fevers at the Beginning, for most Part, the Veffels act strongly; at the End weakly.

In all Fevers, the more violent the Attack at any particular Period, the greater Chance there is of the Paroxyfm's running thro' its Stages, and producing a perfect Crifis.

In continued Fevers left to themfelves, more violent Exacerbations oftner happen, on the fourth, fifth, feventh, ninth, eleventh, thirteenth, fourteenth, feventeenth, and twenty-first Days, than on any others.

On those Days the Periods either go thro' all their Stages, and a perfect Freedom from the Diforder is produced, (in which Case for most Part it does not recur;) Or the Difease goes off by the Exacerbations becoming gradually less and less, and being followed by imperfect critical Symptoms.

Prognoffics.

The Danger arifes from the Violence of the Symptoms of the first Stage, and the *Delirium* produced from thence; or from too strong an Action of the Vessels; or from great Weakness in the Patient.

Fiolent Symptoms of the first Stage. The first is indicated by the Diseafe's being preceeded by long continued Languor, Weariness and Weakness: its being attended by great Prostration of Strength; the

the Skin's being rough, dry, and unequal; Ulcers becoming perfectly dry; the Fulfe being much contracted, quick, and intermittent; the Tongue and Mouth's being dry, the Tongue covered with a dry, rough Furr, and the Thirft un-extinguishable ; the Urine's being pale, perfectly transparent, and in finall Quantities; the Nails, Fingers, and Feet, remaining cold and pale; the Nofe fharp, Temples and Eyes hollow; Skin of the Forehead contracted ; Ears cold ; and Face univerfally pale, or of a dufky Colour : The Breathing's being fhort, quick, and laborious, the Patient moving his Noftrils; the Pracordia tenfe, fwelled, and hard ; the Anxiety and reftleffnefs great ; the Patient's picking the Hairs off the Bed Cloaths, and hunting Flies; the Imagination hurried ; the Sleep refilefs and un-refreflying ; the Thirfi's going fuddenly off; violent Delirium, or a total Infenfibility and Convultions appearing.

The Second is indicated by a hard, full, firong Pulfe; a great Rednefs; a full and quick Refpiration; a dry white Tongue; great Pain in the Head and Joints; fweating about the Head and Breaft, or all over the Body; red fwelled Eyes; Stupor; Delirium; Convulfions.

The Third is indicated by, partial, or univerfal, or cold colliquative Sweating; Purging; Tears; great Secretion of Urine; or any other partial Secretion, the Reft not taking Place at the fame Time; Urine with a mucous Cloud or Sediment; Symptoms of putrid Blood, as a black Furr upon the Tongue, thick and black Urine, Petechiæ, putrid Secretions, as putrid Fæces &c. A finall, quick, trembling Pulfe; the Patient lying feemingly flupid, without much Uneafinefs, or on his back with the Legs and Arms extended, flipping out at the Foot of the Bed; fainting when in an ereft Symptoms of Arong Action of the Velleta.

Symptoms of Weaknefs. Poffure, or upon any Evacuation; Delirium; Subfulus tendinum; the Fæces and Urine evacuated without the Knowledge of the Patient; the Pulfe loft in the Arm.

Synptoms Shewing the Mode of Continuance.

When the Symptoms of the first Stage come on with great Violence, the Difeafe is oftener an Ephemæra Simplex or Intermittent, than a Continued Fever.

When the Symptoms (a) of the first Stage attack the Patient more violently in Proportion to (b) (c) the Difcase is apter to be continued, and e contra.

When the Tertian Type is evident on the first Days of a Continued, it is generally changed into an Intermittent.

The more perfect the Crifis, the lefs Danger of a Relapfe, and e contra.

Continued Fevers, whofe Types are changed by Evacuations, are lefs apt to be cured by a Crifis, and have more imperfect Crifes than those running thro' their natural Periods.

Fevers, which in the beginning are neither attended with ftrong Symptoms of the first Stage; nor those indicating great Strength or Weakness generally continue long. Fevers that are continued, and have the Symptoms of the first Stage violent, are, the *Plague*, *Malignant Fevers*.

Continued Fevers, in which the Symptoms of the first Stage are at the Beginning flight, if attended with great Symptoms of Strength, are Inflammatory Fevers; if otherwife, low Nerveus Fevers.

Indications of CURE in FEVERS.

Indications of Cure.

I. INDICATION. All Applications increasing the Difease, rendering the hot Fit irregular, or diffurbing the natural Periods, are to be avoided.

(A) The Food is not to be of difficult Solution or Fermentation; flatulent; producing an adhesive Solution; difagreeable to the Stomach; nor in too great Quantity.

Varieties of Continued Fe-

(7)

Berlog Che

Proper Substances for FOOD are,

(a) Decoction of Rice, Barley, Oats, &c.

(b) Shell'd Barley, Oats, Rice, boiled; or fermented, and baked into Bread, afterwards toafted.

(c) Broths of Pullets, lean Mutton, and Beef.

(d) Pullets about nine Months old, roafted or boiled.

(c) Whitings, Flounders, Soals, Dace, Roach; thefe Fifhes however are feldom to be used.

(B) The Primæ Viæ are to be cleared of any offending Matter, by gentle Emetics and Laxatives, or Glyffers, according to the Strength of the Patient.

(a) Proper Laxatives are, Sal Glauberi verus, Tartar Vitriolatum, Tartar Solubile, Pollychreftum Rupellenfe, Sulphur, Radix Rhei, Manna, Caffia, Tartar, Fructus Tamarindorum.

(b) Laxatives used in Glysters are, Decoctum Commune pro Clysmate, Sal commune, Sal Glauberi, Oleum Lini, Sacharum Rubrum, Electarium Lenitivum.

(C) Great external Heat and Cold are to be avoided, as are likewife fudden Changes from the one to the other, and Air unfit for Refpiration.

The Bed-Chamber is to be large, and the Bed placed fo as to avoid Currents of Air.

Heat is to be generated by Fewel burning in an open Fire-Place; Cold by fprinkling the Floor with Infufions or diftill'd Waters of fome of the Aromatic Herbs, fuch as Thymus, Rofmarinus, Lavendula, Rofarum Flores.

(D) Sleep may be procured by

(a) Attention to an uniform murmuring Noife.

(b) Antifpafmodics and Sedatives, as Oleum Dulce, Oleum æthereum in Spiritu Vini foluta et Aqua Commixta.

(c) Opium, which is feldom useful, frequently prejudicial.

(E) Pu-

(E) Putrid Air, Fear, Grief and Anxiety, are to be avoided.

II. INDICATION. Accidents arifing from too firong Action of the Veffels, ought to be avoided; (A) By Bleeding, according to the Strength of the Patient, and Violence of the Symptoms of the 1fl Stage. (B) The Food is to be fuch as affords little Nourifhment. [Vid. Ind. 1fl. (A) (a)]

(C) By Sedatves given internally, fuch as

Acidum Vitriolicum, Muriaticum, Limonum, Tamarindorum, Berberis, Mororum.

(D) By Laxatives, fo as to procure two or three Stools. Vid. [Ind. 1st. (B) (a)]

III. INDICATION. The Strength is to be fupported, when the Symptoms of Weaknefs come on.

(A) StimulantsandAntifpaſmodics are to be given according to the Weaknefs, fuch as Sack, Madeira, Mountain Port, Claret, Moſchus, Camphora, Caſtor, Alkali Volatile.

It hath been the practice with this View, to give the Spices, and other Subfrances whofe Virtues as Stimulants depend on their effential Oils; but as they generally quicken the Pulfe and greatly increase all the Symptoms of Irritability, I think they ought to be laid afide; Blifters, upon the fame Account, are not fo use ful for this Purpose.

IV. INDICATION. Irritability arifing towards th End, is to be taken off.

(A) By Acids. Vid. [Ind. IId. (C)]

(B) By Cortex Peruvianus, if there are remarkable Re miffions.

V. INDICATION, The Symptoms of the first Stag

31

are to be immediately taken off, or diminished,

 (A) By giving internally Medicines to relax the finall Vefiels throughout the System by their Action on the Stomach, fuch as Nitrum Commune, Ammoniacum Commune, all the other neutral Salts, Radix Ipecacuanhæ, Radix Senecæ, Preparationes Antimonii, Aqua Frigida.
 (B) By external Applications producing Inflammation, fuch as Cantharides, Semina Sinapi.

Cattier.

The gentle Stimulants commonly called Diaphoretics, as Contrayerva &c. have been by many Practitioners used for this Purpose internally; but their Action is extremely doubtful.

VI. INDICATION. The Difeafe is to be prevented from Recurring.

(A) Symptoms of the first Stage remaining after the Crifis, and facilitating the Re-production of the Difease are taken off by Vid. [Ind. V. (A)]

(B) By counter-acting the Cold Fit, before, and at the Time of, the Accession.

(a) Vid [Ind. V. (A)]

(b) By the Application of Stimulants (i) externally, as Allium, Sinapi, Aromata (2) internally, as the Aromata, Alkali Volatile, Vinum, Opium, Moschus, Camphora.

(C) By Medicines preventing any Application from affecting the Syftem, fo powerfully as it would do naturally, (i. e. deftroying Irritability) fuch as Cortex Peruvianus, Vitriolum et Muria ferri, Vitriolum Cupri, Alumen, Cortex fraxini.

The

(10)

The PLAGUE.

Caufes.

I T is always produced by putrid Vapour applied to the Body, fometimes acting as the fole Caufe, fometimes in Conjunction with others; and more or lefs powerfully, according to the Irritability.

Distinctions.

Of all continued FEVERS this attacks the Patient with the moft violent Symptoms of the first Stage: these too increase in it, the fastest at every Exacerbation, and produce the Symptoms of Weakness the quickest, particularly those of putrid Blood.

In cold Climates the Symptoms of Strength often appear at the Beginning with great Violence.

For most Part the Symptoms of the first Stage arife to fo great a Height, as to destroy the Patient before the End of the first Week.

General Prevention.

Prognofis

The putrid Vapour in the Air, may perhaps be deflroyed, by impregnating it with Acids; as by burning great Quantities of Wood, or detaching great Quantities of concentrated Muriatic Acid from Sea Salt by the Vitriolic, and evaporating it.

Fear, Grief and Anxiety, indigestable and flatulent Food, Coffiveness, Cold, and the other Causes of Fever, are to be avoided as much as possible.

Medicines deftroying the Irritability of the Body, may be exhibited (as a Glafs of Wine) when any one is unavoidably exposed to the Infection in Circumstances where it would act more powerfully. The Bark may always be used as a Prefervative, with Advantage, in the following- or a fimilar Form,

(No. 1.) R Vin. Rubr. Lufit. fbij

Cort. Peruv. a a 3 ij

Digere per Horas xlviij Calore 100 Grad. Therm. Faren. et col. Capt. Coch. ilij ter indies.

The

Particular Prevention.

(11)

The Fever is to be put a flop to if poffible, by the most powerful Means of taking off the Symptoms of the first Stage.

(No. 2.) R Pulv. Ipecac. Gr. vi ad xij.

Tart. Emet. Gr. i. ad iij. Ft. Pulv. Emet. Vel. Ft. cum. Syr. Scilit. Q. S. Bolus Emet.

Vel. R Tinft. Ipecae. 3 fs ad 3j.

Tart. Emet. gr. j. ad iij. Ft. Hauft. Emet. Capt. Vefp. Hora ix Superbib. Infus. Cham. vel Card. Benedict. nequaquam tamen ultra modum urgeatur Vomitus; in lecto etiam detineatur æger.

After the Operation of the Emetic, the Patient is to be laid in Cotton or Flannel, his Head bound round, and when warm the following Draught is to be given.

(No. 3.)	R	Aq.	Menth	vulg.	vel	Cinnam.	Ten.
		vel.	Alexit.	fimpl.	lav-	- Zjís	Aut.
bluet r	120	tali	s alteriu	IS.		in Sund	ni.

L. L. _____ gtt x ad xxv. vel Syr. Diacod. _____ zjfs. ad zvi. Aq. Menth Spir. vel. Nuc. Mofch. vel. Cinam. Spir. _____ zij. Aut. T. A. Syr. Moror. _____ zij.

If a Sweat can by these Means be produced, it is to be kept up by Medicines producing equable Circulation.

(No. 4.) R Tart. Einet. gr. ‡ ad gr. j.

Sach. Alb. gr. x m Ft.

Pulv. Capt. om. iv. ta, vel Sexta Hora cum Hauft. fequent.

R Aq. Menth. vulg. Zifs. Nuc. Mofch. zij. Syr. Moror. — zij m Ft. Hauft.

B 2

If

Cure.

If the Vomiting fhould continue, it might perhaps be advifeable to add a few Drops of Laudanum to the Draught.

The Patient is to drink copioufly of any warm watry Fluid at the fame Time.

If by this Means the Fever should be carried off, the following Medicine may be made Ufe of to prevent a Relapfe.

(No 5.) R Pulv. Cort. Peruv. Subt. zfs ad zj.

Ft. Pulvis

Cum. Syr. Croc. Q. S. ft. Bolus. Vel.

R Aq. Alexit. Zifs. Vel.

Pulv. Cort. Peruv. zís ad zi.

Syr. e Cort. aur. a a zij.

Aq. Cort. aur. Spir.

Ft. Hauft.

Capt. om. ivta vel. vita Hora.

If the Symptoms indicating great Strength fhould be very violent, it may be neceffary to take away a little Blood. No folid Food is to be used.

From the Defcriptions given, and Methods of Cure applied by the different Authors, who have treated of the PLAGUE in the cold Climates, the above feems to be the most promising Means of faving Patients, who would otherwife certainly be deftroyed from the Violence of the Difeafe.

An Inflammation of a lymphatic Gland, fometimes arifes at the Beginning, and diminishes or entirely carries off the Fever. This Inflamation is never to be taken off, but always brought to Suppuration.

The

(13)

The VIOLENT FEVER;

Otherwife called the

PUTRID, MALIGNANT, JAIL, CAMP, HOSPITAL, OF PETECHIAL FEVER.

T generally proceeds from the fameCaufes that produce the Plague, only not applied in fo great a Degree.

This Fever attacks the Patient with violent Symptoms of the first Stage; particularly those mark'd (a) The Cold often returns alternately with the Heat, for the 1ft 24 Hours; the Symptoms indicating Strength fometimes appear, but feldom to any great Degree; the Fever increases greatly every Evening, fo that Delirium comes on about the Beginning of the fecond Week; and the other Symptoms of the first Stage encrease with fuch Violence, as to deftroy the Patient: Otherwife each Exacerbation becomes lefs towards the End of the fecond Week and afterwards; the Delirium is converted into a Stupor; the Crifis happens from the Beginning of the fecond, to the End of the third Week; or the Difeafe gradually leaves the Patient, with very imperfect critical Symptoms. From the middle of the fecond Week, and fometimes fooner, the Symptoms of Weaknefs, particularly those indicating Putrid Blood, begin to appear; efpecially if Bleeding and Stimulants have been used, and often arife to fuch a Height as to kill the Patient.

Sometimes, altho' feldom, at the Beginning an Inflammation arifes, alleviating, but hardly ever intirely terminating, the Difeafe.

When Putrid Vapour is applied, it fometimes produces at first, only fome of the Symptoms of the first Stage, which Cau er.

Diffinction S Prognofis. which continue feveral Days, till a fresh Caufe of Fever gives Occasion to a confiderable Increase of them followed by a hot Fit, and the Fever proceeds as above. The Air is frequently to be changed in Places where

it is liable to putrify, and the putrid Matter that has

been generated, is to be deftroyed by Acids converted

General Prevention.

Particular Prevention. Cute.

As in the PLAGUE.

into Vapor.

If fome few Symptoms only arife from putrid Vapor, they are readily carried off by the Emetic (No. 2.) and Draught (No 3.) or by (No. 4.)

No Blood is to be taken away, unlefs the Symptoms indicating great Strength, which are enumerated Page [5] be extremely violent, and even then, with Caution; and the Bleeding hardly ever requires to be repeated.

We are to endeavour to leffen the Fever at the Beginning, by the Emetic (No. 2.) and the Stomach is to be fettled by (No. 3.) but Sweating is not to be attempted.

Untill the fifth Day of the Difeafe, if the Fever continues increasing violently; in the Evenings following that in which the Emetic was given

(No. 6.) R Sach. Alb. gr. xx.

Tart. Emet. gr. fs. ad gr. j. divid. in Pulv. ij. Capt. unum Hora viij alterum Hora xj. Vefpert. cum Hauft. (No. 4.)

At the Beginning, thro' the whole Periods, gentle Sedatives may be ufed, as

(No. 7,) R Aq. Menth, vel Cinnam. ten. vel Alexit.

3ifs Succ. Lemon. vel Mororum, vel Acid. Vitr. vel Mur. Q. S. ad gratam acedin. Syr. Violar. — 3j. Ft. Hauft. om. ivta vel vjta Hora Sumend. If

(15)

If the Belly is not kept fufficiently open, to one of the Draughts may be added

(No. 8.) Add. Hauft. Suprapræscrip.

Sal. Glauber. ver. 3 jad 3 ij vel Tart. Vit. 3 fs ad 3 j vel Tart. Solub. 3 i ad 3 jfs.

Small Dofes of neutral Salts have been exhibited at this Time of the Difeafe, but for the most Part without Advantage, and fometimes with Detriment to the Patient.

If the Symptoms of the first Stage should encrease with great Violence in the second Week, particularly Delirium, Blisters are often applied to the Head and Back, with great Advantage; but blistering the Patient from Head to Foot from this Time to the End of the Disease, exhausts his Strength, quickens the Pulse, produces Petechiæ, and renders the System extremely irritable.

Acids are continued now, and to the End of the Difeafe, with fenfible Advantage.

The Pelly is to be kept open if necessary by Glysters, from this Time to the End of the Difease.

(No. 9.) R Decoc. commun. pro Clyfm. 3 viij ad

z xiv.

Elect. Lenetiv. 3vj ad 3jfs vel Sal Glaub. ver. 3fs ad 3j.

O. Lin. Zjfs.

m Ft. Enem. pro re nata. vefp. injic.

The greater the Weakness the less of the Purgative. is to be apply'd.

As the Symptoms indicating Weaknefs appear, the Strength is to be fupported.

Bibat Æger Vin. 3fs ad 3ij bis ad Sexties Indies. (No. 10.) R Aq; Menth. 3jfs

> Mosch. Chin. gr. ij ad gr. vi, vel Camph. amygd. Solut. gr. ij ad gr. x, vel Alk. volat. mit. gr. x ad xx. Syr.

Syr. e Cort. Aur. Aq; Menth. piper } a a 3ij

m Ft. Haust. cap. vjta quaque hora.

If these Medicines render the Pulse quicker, they are to be changed;

And the fimple Stimulants are, I think, to be avoided: if any is given, the Rad. Serp. Virg. will be the most useful and may be added to (No. 7.)

If in the latter Part of the Difeafe with great Weaknefs, there be confiderable Remiffion without Stupor.

(No. 11.) R Aq. Menth. Vulg. Zjfs

Pulv. Cort. Peruv. gr. xv ad 3fs Syr. e Cort. Aur. 3ij

Aq. Menth. Piper. 3j m F. Hauft.

Vel Loco Pulv. Cort. Peruv. decoct. fequent. 3 fs ad 3j

(No. 12.) & Cort. Peruv. Crafs. Pulv. 3j

Aq. Font fbij.

mark. Macin. Ma te atta veto, inga.

genter the Weakness the Los of the Purgative

Symptoms indicating Weakach appear, the

Ager Vin. 76 ed 71 bis ad Sodies Indie.

YOIRL DR. K. M. A. M.

Match Chin group and real County

states any is it at go and beyone

Coquantur Simul ad Hj. S. A.

O. Lin. Fi

No Crifis is to be attempted to be brought on towards the End, by Medicines producing equable Circulation.

The Food throughout the Difease, is to be of those Articles marked (a) (b)

(17)

The INFLAMMATORY FEVER

S Produced in very firong Habits by all the Caufes of FEVER, frequently by Cold, but feldom by puid Vapour.

The Symptoms of the first Stage are flight, particularly ofe marked (a) but they are followed by a violent hot t, in which all the Symptoms indicating Strength appear a great degree, the whole Fever being often entirely rminated by Topical Inflammation or Hæmorhage, leavgonly the Inflammatory Diathefis; or in a few Periods the atient is deftroyed by the ftrong Action of the Veffels nmediately affecting the Brain, or depriving him inrely of Sleep, and in confequence of that, caufing Deium, violent Convultions, and Death. If none of efe things happen; in the fecond Week the Strength minishes, the Fever goes off with a perfect Crisi; or aperfect critical Symptoms appear after each Exacerbaon, these becoming gradually lefs. The white Cruft wering the Tongue in falling off, leaves fometimes tle Exulcerations behind.

By avoiding the Caufes of Fever.

The Action of the Arteries is to be diminished, Ft. V.S. ad Zviij vel Zvij bis ter quaterve repet. pro re nata.

(No. 13.) R Aq; Alexit. 3jfs.

Sal. nitr. Jjad Jij, vel Sal. Alk. V. Fix. fucc. Limon. Satur. Jj vel Spt. Minder er 3fs.
Syrup Limon. 3ij m Ft. Hauft. om. ivta vel vjta Hora Sumend.

Caufes

Diffinction & Prognofis.

> Prevention, Cure.

The Belly is to be kept open by (No. 8)

The Action of Blifters, if there be no particular In flammation, is extremely uncertain.

If when the Fever is almost entirely gone off, th Delirium from want of Sleep continues, the System be ing greatly weakened, after all Other Means of pre curing Sleep have been tried and have failed, Opiate may be used fometimes with advantage.

If any Exulcerations arife in the Mouth, they ar cured by

(No. 14.) R Træ Rofar. Zviij.

(antes

President of

Mel. Rofar. 3j ad 3 ij m Ft. Gargarifm utatur fæpius.

Reavoiding the Caufes of Fever.

Mino 18.) It Ag: Aimit.

The Food in the Inflammatory State is to be of the Kinds marked (a); when the Strength diminishes; the marked (b) may be used.

When the Fever is entirely removed, Relapfes a prevented by (No 5.)

This Fever after the Inflammatory Diathefis is con quered, ends fometimes as the Violent Fever, and this cafe is to be treated in the Same Manner.

and Action of the Arterics is to be diminified,

Fe. V.S. all fully vel favi his ter quaterve repet.

ad Bit, VallA . ME by . HE bs

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Tł

The Low NERVOUS FFVER.

N this FEVER the Irritability of the Body is very great; in confequence of which, the Periods orought-out the whole Difeafe are often irregular, and ot well marked.

It attacks People of Phlegmatic Temperaments; or ofe weakened by using Food not fufficiently nourishing r their Exercise, by great Evacuations, long contined Use of Stimuli, &c.

It may be produced by all the Caufes of Fever; but arifes most commonly from Affections of the Mind, and from Cold.

For most part at the first Attack, and in some of the llowing Exacerbations, the Symptoms of the first Stage re few, and those not violent, and they are followed by ery flight hot Fits: the Periods however increase gradally; but it is often the End of the first Week efore the Difeafe is compleatly formed, or gives the atient fo much Uneafinefs as to make him apply for elief. From this time it continues to encreafe confierably, and is attended with the Symptoms of Weakefs, particularly those indicating great Irritability, hich often arife to fuch a Height, as of themfelves, or ith the Fever, to deftroy the Patient. The Crifes hapen generally in the third Week, or later; or if there be p compleat Crifis, the Exacerbations become gradualv lefs violent, and more irregular, and at last leave the atient : In this cafe the Difeafe is often drawn out to great Length.

Perfons predisposed to the Disease.

275]

Haltmann .

Caufes

Diffinction & Prognofis.

If

1.21)

If the Patient be very Weak at the first Attack, both the Symptoms of Weakness and Fever are fensibly greater at the Beginning, and the Disease is much thortened.

The Patient is to be firengthened (Vid. Hift. Difeafe) and the Caufes of Fever are to be avoided.

Cure

Provention

The Fever at the Beginning may often be removed, or fo much leffened, as to be of little Confequence; (a) by the Emetic (No. 2) and Draught (No. 3); or (b) by (No 6); or (c) even by (No. 4); or (d) by the neutral Salts with gentle Diaphoretics, as

(No. 15) R Aq; Menth; vulg; 3jfs Alk. V. Fix: Suc: Limon. Satur. 9] Pulv. Contrayer. _____ gr. xv: ad 3fs Syr. Croc. Aq; Menth. Piper. } a a 3ifs m Ft. Hauft. Capt. ivta quaque Hora.

If (c) (d) fail of producing the defired Effect, they frequently encrease the Weakness and Irritability confiderably, towards the End of the Disease.

If the Head fhould be much affected towards the Be ginning, a Blifter applied to it or to the Back, often diminifhes the Fever greatly.

If by any of these Means the Fever is carried off, i is prevented from recurring by (No. 5)

A Stool if neceffary, may be procured by gentle Lax atives at the Beginning.

(No. 16

(No, 16) R Aq; Menth; vulg: žjís Rad. Rhei Pulv: gr: x ad xviij Træ Sen _____} Syr: e Cort: Aurant:] a a zj m Ft. Hauft: Capt. pro re nata,

(21)

Afterwards by Glyfters (No. 9.)

When the Weaknefs begins to appear in any great degree, the Patient is to be fupported in the fame manner as in the violent Fever: But fimple Stimulants are to be given with still greater Caution, on account of the Irritability.

If at this time any confiderable Remission should appear, the Bark as in (No. 11) may be given every three or four Hours, during such Remission, with advantage.

The Food is to be of those Articles marked (a) (b)(c) and even (d) if the Stomach will bear it, and ought likewife to be acidulated.

N. B. It is to be remarked, that these Fevers are all of the same Species, and are only varied by the Violence of the first Stage, and by the Strength or Weakness of the Patient, which as they differ under different Circumstances in a great many Ways, so they produce an almost inconceivable Variety in the Disease.

INTERMITTENT FEVERS.

(No. 16) R Aq: Maath. valg: File

(22)

THEY happen from all the Caufes of FEVER, but generally from Cold.

Caufes

Diffinction & Prognofis. The Periods for moft part, even from the Beginning, are violent in all their Stages; they are fometimes perfectly diffinct at the first, but frequently run more or lefs into one another, and are attended with the Symptoms indicating Strength, especially in the Spring, and in cold Climates: These gradually decrease, the Periods become more diffinct, and the Fever often changes its Type. In many Cafes the Intermistions become perfect, and continue fo for fome time; till the Symptoms of Weakness appearing, the Fits re-double, anticipate, grow irregular, and leave the Patient, or run into one another, and deftroy him.

The Weaknefs occafioned by this Difeafe is great, and often not to be recovered without Difficulty. It renders the Patient fubject to Dropfies, and other Difeafes arifing from it, which are frequently fatal.

If an Intermittent attacks a Weak Patient, the Intermiffions for most part are not perfect even from the first, and they become gradually lefs fo, till at length the Patient finks.

If one Fit of Fever attacks a Patient fo as that the Period is compleated in a few Hours, and no Symptom left, it feldom recurs, and never without a fresh Cause.

When

(23)

When a Spafmodic Contraction of the Ductus Cholidoehus occasions the throwing a Quantity of Bile into the Blood Veffels, from whence it is fecreted into the different Glands, the Intermissions are sometimes rendered lefs perfect.

The Caufes of Fever, particularly Cold, are to be Prevention guarded againft. (Vid. the Catarrh.)

In Habits where there is no great Weaknefs, a perfect Intermiffion is to be procured (1) by cleanfing the Primæ Viæ; for which purpofe the Emetic (No 2) may be given in the Intermission; a gentle Purgative may likewife be ufed.

(No. 17) R Infuf. Sen. 3jfs P. Rad. Rh. 9j ad 3fs Syr. Rof. Træ Sen.] a a zij m

Capt. Intermifs. Temp. ita ut Purgatio ex toto ceffaverit ante Paroxyfmi Acceffionem.

(2) If the Symptoms of Strength are violent, Bleeding will be ufeful for the fame purpofe.

(3) By Medicines producing an equable Circulation:

(No. 18) R Aq; Menth. vulg. 3jfs Tart. Vitr. 3 fs ad Bij vel Sal. Amm. Dij ad 3j vel Tart. Emet. gr. 1 ad gr. j Aq; Menth. Piper. a a 3ij m Syr. Moror.

Capt. om. vta vel vita Hora.

100013

The Emetic as above, will likewife act in the fame manner,

Cure

The

It fometimes happens that a Perfect Intermiffion being procured by these Means, the Disease leaves the Patient.

If notwithflanding fuch Intermission the Fever continues, the Fit is to be prevented

(1) By Medicines removing Irritability.

(No 19) R Cort: Peruv: Opt: Subt: Pulv: gr: xv ad zij Capt: e Cyath: vin: generof: Horze Quadrantis zd hor: iv Intervallo ita ut Æger fumat: zvi ad minimum inter duos Paroxyfmos.

As great a Quantity is to be given at a time as the Patient's Stomach will bear; and the Intervals between the Dofes are to be as long as poffible.

If any S mptom of the Fit recurs, the Bark is to be omitted till the Time of the next Intermifion, and is then to be repeated in the fame Quantity and Manner as before, provided the Paroxyfin has been greatly leffened : The fame Meafures are to be purfued during the time of the third Period, when the Medicine is to be omitted for one or two Periods; and this is to be practifed twice or thrice, (at longer Intervals each Time.)

If there be any Symptoms of Inflammation in the Breaft, they should be removed before the Exhibition of the Eark.

Symptoms of Bile in the Blood Veffels, are not to be attended to any farther than as they render the Intermillions imperfect.

If the Bark has been given imprudently, viz. when the Patient is firong and no perfect Intermission has taken

place,

place, we are to omit it till fuch Intermission is procured by the above Means; but even then it acts less powerfully, than it would otherwise have done.

(25)

If the Bark purges, from five to ten Drops of Laudanum may be given three or four times a Day.

If the Patient continues long Bound, a Stool may be procured by a finall Dofe of Rhubarb or Aloes.

If the Stomach will not bear the Powder, the Decoction or Extract may ufed; or it may be applied in a Glyfter, or even externally, though these Methods are never fo fure of Success.

If the Difeafe attacks a Weak Patient, or has continued till a firong Habit is much weakened, the Bark is to be given at the Time of the best Remission; it commonly brings on a fevere but regular Fit, and upon continuing its Ufe the Fever leaves the Patient.

(2) By counteracting the cold Fit at the Time of its coming on.

(No. 20) R Aq; Cinnam: Spirit: 3j ad 3ij Menth: vulg: 3j Tart: emet: gr: fs ad gr: jfs L: L: gtt: xx ad xl Syr: Croc: 3ij m

Capt: ante Paroxyfmi Accessionem; Æger quoque in Lecto detineatur.

When

When the Difeafe is cured, or the Fits become flight and irregular, the Patient is to be firengthened (Vid. Hyfteric Difeafe.) bluew si nans . wants

much may be given which or four times a liby.

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(No. 20) R Ac. Caman Spirite 11 ad

air bag

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stril 41

(27)

The Symptoms, Diffinctions, Prognostics, and Indications of CURE, with the **REMEDIES** in INFLAMMATIONS.

TN every INFLAMMATION, the Pulfation of the Symptoms Arteries is increased; there arise a greater Degree and Senfe of Heat; a greater Rednefs; an Itching, foon converted to an acute and often a throbbing Pain, augmented on the Part's being firetched; a Swelling produced by a Differtion of the Capillary Veffels and the Veins, and fometimes by an Extravafation of Fluids; alfo a Contraction, and In-ability of Motion, in the mufcular Fibres.

More Fluids circulate thro' the Part, and more are fecreted in it when inflamed, than when in its natural State,

The Senfibility and Irritability are encreased by Inflammation, and are produced by it in Parts where they they did not fubfift before.

INFLAMMATION is produced by

Caufes

1. External Stimuli, (Mechanical, Chemical, or Medical.)

2. Diffention.

3. Division of an irritable Part.

4. Mucus thrown out of the Follicles of the mucous Blands, before the neutral Salts are abforbed.

These Causes operate more powerfully on Habits in which the Veffels have great Strength or are acting strongly; and on Parts that are very irritable or fenfible.

INFLAMMATION (a) fometimes has no Effect on the System in general, (b) sometimes it produces Inflamma- flammation tory Diathfu; (c) fometimes Symptoms of Irritation.

Effects of Inthe Syftem.

(a) In

D 2

(a) In Habits not very flrong, if the Inflammation is fmall, and the Pain net violent, or if the Part is eafily diffended, the Syftem is not affected.

Inflammatory (b) In firong Habits, or where the Pain is great, and the Patient not very weak, it produces Inflammatory Diathefis Diathefis, by fome called Inflammatory Fever; the Symptomsof which are, a hard, and for most Part, a firong, full and quick Pulfe; Elood when taken from the Arm more fluid, fo that the red Globules fall to the Bottom, the coagulable Lymph coagulating afterwards firongly, and adhereing to them, fo as partly to form a Cruft on the Top, called by fome the Buff; a full and frequent Refpiration, attended fometimes with a Cough; &

dry white Tongue and Thirft; Reftleffnefs; Urine becoming turbid when Cold, and fometimes depositing a lateritious Sediment; univerfal rednefs, Heat, and Swelling; Watchfulnefs and Delirium; Stupor, with red, fwelled, protuberant, and often dull Eyes, fometimes converted into a violent, fometimes into a low, muttering Delirium, often at last terminating in Convulfions and Death.

Inflammatory Diathefs differs effentially from Fever, in as much as the Symptoms of the first Stage do not neceffarily proceed, or accompany it, and as it does no encrease by Exacerbations followed with Relaxations.

It is excited by many Caufes, befides Inflammation, (Vid. Pulmonary Confumption.)

Symptoms of great Irritation.

(c) Where the Pain is very great, or the Habit very weak and irritable, the Symptoms of Irritation take Place, viz. a very small, quick Pulse; Faintings, coldnefs of the Extremitles, especially when an internal Part is affected ; Delirium ; Convultions, or long continued Spafmodic Contraction of the Mufcles, fometimes terminating in Death. 188-4-(e) -4010e2111

Befides

Befides thefe, various other Symptoms are often produced, when particular Parts are inflamed, and their Functions thereby deftroyed or hurt.

If the Caufe of an Inflammation is removed, it fometimes goes off foon ; fometimes continues for a long Termination. Time, or terminates in another Difeafe.

Progress and

(A) It goes off by

(a) Simple Refolution, when upon removing the Caufe. the Symptoms diminish gradually, and at last leave the Patient, and of publicant patel to

(b) Refolution by Evacuation, (1) when the Mucous Glands of the Part inflamed, or near it, do in Confequence of the Inflammation fecrete a confiderable Quantity of Mucus, at first thin, and transparent, afterwards becoming vifcid, and changing its Colour to white, greenifh, or yellow, often fireaked with Blood; (2) when an Hæmorhage arifes in the Part affected; (3) when a large or long continued Evacuation happens from fome Part of the Body.

(c) Refolution in Confequence of Fever, when a cold Fit of Fever is produced and carries off the Infammation.

(d) Metaftafts; when an Inflammation arifes in another Part, and carries off the Primary one.

N. B. In all thefe Cafes Callofuies are fometimes left.

(B) The Inflammation continues for fome Time without Alteration, or terminates foon in Suppuration, Gangrene, or Scirrhus.

(a) The Inflammation continues for a confiderable. Time without greatly encreasing or diminishing, and without terminating in another Difeafe.

(b) Suppyration; (1) when a Quantity of Blood is thrown 206 2

thrown out into any Cavity (the Inflammation continuing) it ferments, and is converted into Pur, which afterwards acts as a Ferment on the folid Parts, and gives occafion for the Conversion of the Whole into a Matter, fimilar to itself, the Symptoms of the first Disease going off. Sometimes a Membrane is formed round the Pus, which prevents it from acting upon the circumjacentParts; but more frequently it likewise ferments with them, till it has made itself an Opening by which it is evacuated. This happens somer or later according to the Distance of the Inflammation from the Skin, or the Surface of a Cavity opening externally. While it is taking Place, the Pur sometimes separates the Muscles and other Parts from one another, by destroying the Cellular Membrane.

After the Pus is evacuated, a fresh Inflammation arifes; more Matter is formed on the Surface of the Cavity; a Quantity of Flesh grows up and fills it; afterwards a Scarf Skin covers the Whole, and the Part is restored.

Sometimes the Surface of the Cavity continues to be deftroyed; the Ulcer is enlarged; a Portion of the Matter is abforbed, and producing Hectic Fever, the Patient dies. (Vid. Pulmonary Confumption)

(b) (2) When a Quantity of Fluid remains on the Surface of an Inflamed Membrane or other Part, it is converted into Pur, which fometimes ferments with the folid Parts underneath, and defiroys them.

(c) Gangrene and Mortification: In this Cafe the Symptoms of Inflammation go off, and the Part becomes paler or of a brown Colour, Flaccid, and at laft Black; the Scarf Skin is raifed up in large Puflules, when which contain a femi putrid Ichor: At last the whole Part putrifies; and the Gangrene and Mortification spread, until they destroy the Patient, by affecting a Part necessary to Life, or else by producing a Fever attended with the Symptoms of Irritation.

(31)

This Difease arises without any previous Inflammation, from Preffure, Ligatures on the Veins, Weakness, Extravasation of great Quantities of Blood, and the Application of Sedatives.

(d) Scirrhus and Cancer. When the Inflammation is carried off, but a Quantity of Matter is left in the Secretory Veffels of fome Gland, occafioning a Hardnefs and Swelling This often continues for a confiderable Time without Alteration; but upon the Application of any Stimulus, the Matter deposited ferments, and is converted into a peculiar Fluid inflaming the Part, and producing an Ill-conditionedUlcer called an open Cancer. In this Ulcer Good Pus is never formed; but the Patient is exhausted and destroyed by the Pain, the Evacuation and the Stimulus arising from the Cancerous Matter absorbed.

Scierhus arifes without any previous Inflammation from the proper Fluid flagnating in the Gland, or Extravafation from Contufion or Venous Pletkora.

Prognofis

Simple Refolution takes place when the System is not Strong, when the Inflammation is but fmall; when it affects the Skin only, or a fost Part, or one not very fensible.

Refolution by Evacuation is produced (1) when the Mucous Membrane is primarily or fecondarily inflamed, or when in confequence of the Inflammation, the Musous Glands near the Part affected, are flimulated to a greater greater Secretion; (2) when the Capillary Veffels of the inflamed Part are fpread on a Membrane confrantly moiftened, and in a Cavity opening externally; (3) is accidental.

Refolution in confequence of Fever, happens principally when the Inflammation arofe at the beginning of the hot Fit, diminishing but not entirely carrying off the Fever: A Febrile Exacerbation, arifes in the Evening naturally, or from fome new Cause, and takes off the Inflammation.

Metaftafis is accidental. The nearer the fecond Inflammation is to the original One, the more violent it is, or the greater the Senfibility of the Part it affects; the more certainly it carries off the first Difease.

(B) (a) Happens if the Skin be the Part affected, the Difease not violent, and the Cause be frequently repeated.

Suppuration happens (1) when the Cellular Membrane or Parts covered with it, are affected: It takes Place more readily when the Patient is young, or of a Sanguineous Temperament, or of a Strong Habit, or when the Difeafe happens in the Spring; (2) when the Skin is inflamed fo as that the Scarf Skin is raifed from it; or when a Mucous Membrane is affected and the Inflammation continues, notwithftanding the encreafed Secretion of Mucus; or in Wounds.

Gangrene and Mortification happens when the Skin is the Seat of the Difease, or when the Inflammation is violent fo that the Part is greatly compressed, or when any confiderable external Pressure is applied.

Scirrhus

(33)

Scirrhus happens when a Gland is the Seat of the Difeafe, and the Inflammation terminates without coming to Suppuration.

Indications of Cure in Inflammations.

Cure

R ESOLUTION is to be procured if poffible. **I**. INDICATION. The Caufes first producing the Inflammation, and those which afterwards continue it, are to be removed.

The Method of removing many of the Caufes is obvious. Peculiar Means of taking off fome of them, are thefe that follow.

(A) Stimulating Fluids, formed or fecreted on the Surface of an irritable Membrane, are prevented from acting.

(a) By covering the Membrane fo as that they cannot touch it, (1) with expressed Oils, such as Sperma Cati, Oleum Amygdalarum, Oleum Olivarum, Sevum Ovillum, Axungia Porcina, Butyrum; or (2) with Vegetable Mucilages, as, Infusum Seminum Lini vel Cydoniorum, Decoctum Radicis Altheæ, Sacharum.

(b) By deftroying them with Preparationes Mercurii, &c.
(c) By taking off the Irritability of the Membrane, with Cortex Peruvianus, Præparationes Plumbi, Stanni, &c.

(B) Differition of the Internal Veffels, is removed by reftoring the Circulation on the External Surface of the Body. (Vid. Fevers Ind. v.)

(C) The Endeavour to diftend the Capillary Veffels beyond their Tone, is avoided by relaxing them with E Aqua

Aqua tepida scilicet ad Caloris Corporis Humani Gradum, Olea Expressa pura. (vid. A. a. j.)

II. INDICATION. The ftrong Action of the Arteries is taken off.

(A) By emptying them. The Methods are (a) Venæ Alicujus majoris in Brachio, vel Corporis alia aliqua parte Sectio ita ut quam eitiffime magna Sanguinis Copia eximatur; (b) Venæ vel Arteriæ Sectio, vel Hirudinum Applicatio ad Partem affectam; (c) Purging with Salia Neutra, Tartarus, Manna, Caffia Fiftularis, Fructus Tamarinderum, Radix Jalappæ.

(B) By the Application of Sedatives to the Stomach, as, Acidum Vitriolicum, Muriaticum, Limonum; Infufum Theæ, Sarse; Aqua Calida.

(C) By the Application of Sedatives to the Part, as (a) Herbum Absinthii, Matricariæ; Radix Bryoniæ albæ. Flores Rosarum rubrarum (b) Acidum Vitriolicum, Muriaticum, Acetosum; Alcohol; vel Farina Avenæ; Aqua soluta vel Commixta. (c) Prosparationes Cupri, Plumbi, Zinci; Alumen.

(D) By raifing an Inflammation on the Skin near the Part originally affected, (except when the Skin itfelf is inflamed) by Means of Cantharides, Semina Sinapi, Cauterium actuale, Acida, Alkali Vola ile, Frictio.

III. INDICATION. Is the Management of Refolution by Evacuation from the mucous Glands.

(A) The Evacuation is produced or affifted by Stimulants, as Radix Scillæ, Gum Ammoniacum, Balfamum Tolutanum, Radix Alii, Acidum Muriaticum, Limonum.

B (Vid. Ind. 1ft. A, a,)

(C) The Secretion of the Mucus is to be flopped, after the Inflammation is carried off, (a) by flrengthening the Syftem; (b) by applying Aftringents, as (1) Salia et Calces Metalorum, (2) Balfamum Copaibæ, Peruvianum, Canadenfe, Terebinthini. Where

(35)

Where the Inflammation cannot be cured by Refolution; or when an external Inflammation has arifen in the hot Fit of a Fever, and has diminished or entirely carried it off; and fometimes in Inflammations occupying Glands, Suppuration is to be produced, in Order to which;

IV INDICATION. The Inflammation is to be kept in a proper Degree.

(A) If it is too violent and tending to Gangrene, it is to be diminished. (Vid. Ind. 2.) (A. a. c.) (C. a.) (Ind. Iff. C.)

(B) If it is too flight, it is to be encreafed by Stimulants, (a) applied to the Stomach, as (1) Cortex Peruvianus, (2) (Vid. Ind. 3. C. b. 2) (3) Belladona, Solanum Cicuta,

(b) Applied to the Part, (1) Farina Lini, Fænugreci; Oleum Lini. (2) Galbanum, Terebinthinum, Thus. Thefe, though fometimes used, are generally too powerful.

V. INDICATION. If a Gangrene is come on, it is to be prevented from fpreading.

(A) By Vinum, Moschus, Camphora, &c.

(B) By Cortex Peruvianus.

(C) By flimulating the Part with Oleum Terebinthini, Scarificatio, &c

VI. INDICATION. The Management of a Scirrhui. (A) It is prevented by producing Suppuration.

(B) If it be already formed, and (1) is large, encreafing, and detached, it is to be cut out; or (2) if it is fmall, and continues of the fame Size, nothing is to be done; Difcutients are dangerous,

VII. INDICATION. The Management of a Cancer. (A) Good Pus is produced by (Vid. Ind. 4, B. a. 3.) Arfenicum.

(B) The Pain is relieved by deftroying the Senfibility of the Part with Præparationes Plumbi, Stanni.

(36)

The INFLAMMATION of the BRAIN.

Caufes.

I T arifes, from an encreafed Action of the Veffels in the Syftem, produced by hard Drinking, Anger, and indigeflible or vifcid Food in the Stomach; from an exposure of the Head to the Sun; or from Inflammatory Diathefis happening at the Beginning of a Fever, or in any other Difeafe.

Symptoms and Caufes of Delirium. Delirium comes on with Watchfulnefs, or reftlefs and un-refrefhing Sleep with Dreams, lofs of Memory, the Patient's picking Hairs from the Bed-Cloaths; Infenfibility to external Objects; the Functions of the Body are diffurbed; the Imagination hurried, and Difcourfe incoherent.

It may happen from Fever, Inflammatory Diathefis, great Irritability, and Mania, without any Topical Inflammation of the Brain.

Symptoms

There arifes a throbbing Pain in the internal Parts of the Head, which, if the Meninges are affected, is acute; if the Substance only, obtufe, and fometimes but just fenfible. The Eyes for the most Part are red, and fwelled, Tears frequently flow from them, and fometimes a watery Mucus, or Blood drops from the Nofe: The Face is often flushed. These Symptoms are attended with more or lefs of the Inflammatory Diathefis, according as the Meninges or Subftance of the Brain are affected. They are followed by Stupor and Delirium, which fometimes becomes violent, and is attended by Convulfions; and in any Cafe, unlefs fome natural or artificial , Means of Refolution are applied, the Patient for most Part is cut off. Sometimes however, the Inflammation goes on to Suppuration, efpecially if the Subflance of the Brain is affected : In that Cafe, the Symptoms abate, a Stupor

Stupor only being left: But in process of Time, unless the Pus be abforbed, the whole Brain is deftroyed.

(37)

It is prevented by avoiding or counteracting the Caufes. Prevention.

The most powerful Means of Rejolution are immediate- Cure. ly to be employed.

Fiat V. S. e Brachio ad 3xij, xx, vel xxx pro Diathefi Inflammatoria aut Corporis Viribus et repetatur pro re nata.

After the Strength of the System or I. D. are diminished.

Fiat Venæ Sectio e Vena Jugulare, vel Arteria Temporale; vel Temporibus applicentur Hirudines.

At the fame Time Evacuations from the Inteffines may likewife be performed with Advantage.

(No 21) R Infus. Tamarind. 3iv.

Sal. Glaub. ver. 3 fs ad 3 ifs. vel. Tart. Solub. 3 ij 3 vj vel. Polychreft. Rupell. 3 fs ad 3 j

Syr. Rofar. 3ij

m Ft. Hauft. Purgans Capt. Post V. S. et repet. pro re nata.

When the Purgative is not operating (No. 4.) or (No. 13.) may be given.

After having diminished the Strength of the Vessels, Applicet. Emplast. Epispast. Capite rafo.

The Food throughout the Difeafe is to confift only of Decoctions of Farinaceous Seeds in Water, acidulated.

N. B. When an Inflammation arifes at the Beginning of a Fever, and It as well as the Inflammatory Diathefis continues, fuch Fever is also to be at ended to in the Cure of the Inflammation, and the Treatment varied according to the Violence of the Fever.

Prevention. Cure.

(38)

The ANGINA.

(Commonly called the Inflammatory Angina.)

Definition,

Caufes.

I T is an Inflammation of any of the Parts about the Throat, excepting the Skin and mucous Membrane; It arifes from Cold, Diffention of the Parts; Stimuli applied to them, and the other Caufes of Inflammation.

These act more powerfully in People of Sanguineous Temperaments, in the Spring, and in those affected with Inflammatory Diathesis, especially at the beginning of an Inflammatory Fever.

Symptoms.

The Symptoms are those common to Inflammation; or those arising from the Passage of the Air into the Lungs, of the Food or Drink into the Stomach, of the Blood in the Jugular Veins, or the Serum in the Lymph. atics of the Neck's, being obstructed.

The common Symptoms of Inflammation are, (according to the Part affected) either external Swelling, with Rednefs and Pain, gradually encreasing and becoming harder; or Swelling with Rednefs, and Pain in the Tonfills, Fauces, Velum pendulum Palati, about the Root of the Tongue, or Pharynx, gradually encreasing; or lastly, a very acute Pain in the Region of the Larynx, without any external Appearance.

If the mucous Membrane is affected, a larger Quantity of thick, viscid Mucous is secreted.

More or lefs of the Inflammatoay Diathefts, is produced according to the Part affected, or the Strength of the Patient.

When an Angina arifes at the Beginning of a Fever, the Fever is fometimes entirely terminated, fometimes only diminished; in which Cafe, its Symptoms continue along with those of the Inflammation. If If the Larynx, Trachea, or Parts adjacent, are inflamed, the Paflage of the Air into the Lungs is obstructed, and there arife, a Difficulty of Breathing, Anxiety about the Præcordia, swelling of the Veins of the Neck, swelling of the Face, Stupor, Lividness about the Eyes and in the whole Face, Delirium, a very Quick Irregular Pulfe, and at length the Patient is fuffocated.

If the Mufcles ferving for Deglutition, the Tonfils, *Pharynx*, or Parts adjacent are affected, there arife, 2 Pain in attempting to fwallow, with a Senfe of Swelling in the Throat; a Difficulty in fwallowing; *Naufea*; the Food and Drink return by the Noftrils, or getting into the *Larynx* produce violent Fits of coughing; at laft the Paffage of the Food and Drink into the Stomach, is totally flopt up, and the Patient is deflroyed.

If the Lymphatics of the Neck are compressed, there arise *Ædematous* Swellings of the Face, and other Parts of the Head.

If the jugular Veins are obstructed, *Ædematous* and livid Swellings arife in the Face, Tongue, Throat, and Parts adjacent, the Eyes become red and protuberant, the Patient is affected with *Stupor* and *Delirium*, and at last is fuffocated.

Swellings about the Throat, arife from Scirrhus, Scrophula, and Dropfy, as well as from Inflammation, as do likewife Pain, and Difficulty of Swallowing and Breathing from Catarrh, Exulceration, fpafmodic Contraction of the Mufcles, and Paralyfus.

If the Patient is not deftroyed by the Refpiration, Deglutition, or Brain's being affected, the Angina terminates, as other Inflammations, but principally in Suppuration, Gangrene and Mortification.

Difeases to be distinguished from the Angina.

Termination of the Inflammation.

When

When Suppuration takes Place, the Swelling diminifhes, and the Symptoms are fomewhat relieved; the *Pus* opens itfelf a Way externally, or internally, and generally produces an Ulcer eafily cured, but it fometimes is apt to form *Sinus's*, or fall into the Lungs and bring on Exulcerations in them.

Gangrene and Mortification in most Parts of the Throat are fatal.

N.B. As Inflammations of these Parts about the Throat may arise independant of one another, as their Symptoms, Progress, and Termination, are various, they ought to be confidered as different Diseases.

The CURE is best performed by Resolution, for this Purpose 1st, Evacuations are to be produced, viz.

(a) By Bleeding from the Arm in Quantity according to the inflammatory Diathefis, and repeatedly, until it is greatly diminished;

(b) By Bleeding from the Part by opening the jugular Veins, or those under the Tongue, or applying Leaches.
(c) By Purgatives, as (No. 21.) repeated every Day for the first two or three Days of the Disease.

2d, By producing Inflammation externally upon the Skin.

(No. 22.) R Ol. Olivar. 3j.

Alkal. Volat. Cauft. 3ij ad 3j.

Camph. Gr. xxx.

m Ft. Liniment. inunq; Fauces externe fepius.

Cure.

The Andla come

(41)

After the Inflammatory Diathefis is confiderably diminifhed by Evacuation, Blifters are to be applied as near the Part as poffible, provided the Skin itfelf be not inflamed.

3d, If the external Inflammation be confiderable, Fomentations and Poultices are to be applied.

(No. 23.) R Flor. Cham.: vel Summit. Abfynth.: vel Summit. Centaur. Minor.: Manip. ij. Rad. Bryon. Alb. recent. 3j. Folior. Malv.: vel. Alth. Man. j. contunde et leviter coque in Aq. Font. ff iiij. Colatura utatur pro Fotu ter indies. Add. Herbis Coctis. Unguent Simpl. 3j
Ft. Cataplafma Part. affect. applicandum.

4th, When we are not exhibiting Purgatives, or in the Intervals of their Operation, (No 4) or (No 13) are used with great Advantage.

5th, The Inflammation may fometimes be diminished, by augmenting the Secretion from the mucous Glands of the Mouth and Throat, and we are to endeavour to prevent the Mucous Membrane from being affected by the Salts of the thin Mucus.

(No 24.) R Aq; Cinnam. Ten. Zviij Oxymel. Scillit. Zfs m

Ft. Gargarifma utatur fæpius.

(No 25.) R Syr. ex Alth. Ol. Amygd.] aa 3j. Conferv. Cynofb. 3fs.

m Ft. Linctus Capt. Coch. unum parvum frequenter.

F

6th.

(42)

6th, Sedatives are applied to the Part generally with greater Advantage.

(No 26,) R T^{ræ} Rofar. Zviij. Mel. Rofar. Zifs.

Lavantur Fauces, et Os leniter fed fæpius.

The Air of the Room should be moderately warm, and the Patient ought to avoid speaking, and for Food to make use of the Barley Water only.

If the Paffage of the Air into the Lungs, be fo much obstructed as to threaten immediate Suffocation, Bronchotomy is to be performed.

If no Fluid can be got into the Stomach, the Blood Veffels may be fupplied in fome Meafure by Glyfters.

(No 27.) R Aq; Font. $\exists vj$ Amyl. Alb. $\exists iij.$ folve.

Ft. Enema Injic. om. ivtâ. vel vjtâ Horâ.

If the Blood be prevented from returning from the Brain, fo as to endanger immediate Suffocation, the Patient is to be bled in the Jugular Veins.

If the inflamed Parts fuppurate, the Mouth and Throat are to be kept moift with Infufion of Lintfeed, or Decoction of Althæa Root; and as foon as there is any Fluctuation of Matter felt, an Opening is to be made inte the Abcefs

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(43)

The INFLAMMATION of the LUNGS,

OF PERIPNEUMONY.

I T is produced by Cold applied to the Skin, Mouth, Carfor. or Stomach; by Inflammatory Diathefis; by an over Diffention of the Lungs; or by Catarrh.

Any folid Substance falling into the Lungs by the Trachea, or a Wound penetrating into them, produce the Inflammation, but with different Symptoms.

These Causes act more powerfully in People subject to Inflammation in general; in those who have narrow Chefts; or who have been formerly affected with Peripneumony, Afthma, or frequent Catarrhs; where the Lungs adhere to the Pleura, fo as at any Time to prevent a free Refpiration; or where external Inflammations that were become habitual, are taken off.

The Inflammation begins with an obtufe Pain in the Breast, sometimes occupying one Side, sometimes both, and Progress. accompanied with a difficulty of breathing and Cough, the Air from the Lungs being peculiarly hot. There arife a Senfe of Fulnefs in the Thorax, Anxiety about the Præcordia, with Reftleffnefs, a Lofs of Appetite and Sleep; a quick Pulfe, fometimes hard, but feldom strong, or regularly full; and often turbid Urine The Difficulty of breathing and Senfe of Fulnefs increase; and a Quantity of thick Mucus being secreted ccafions a Sound, as the Air paffes thro' the Branches of he Trachea. The Patient is not able to lie down, and the Paffage of the Blood thro' the Lungs is obstructed, fo that the Veins of the Neck begin to fwell, the Pulfe bes comes every Way irregular. The face fwells and of a F 2 dark

Symptoms,

dark red Colour, efpecially about the Eyelids and Cheeks. The Tongue likewife fwells, and becomes of a dark red; The Eyes are dull; Stupor and a low Delirium fucceed, and at length the Patient is fuffocated.

If the Symptoms do not rife to fo great a Height, and at the fame Time no Means of Refolution have been applied before the fourth Day, or if thefe Means are not fufficiently powerful, or if they are not continued until the Difeafe is totally carried off, a Suppuration takes place, and is indicated by flight and frequent Shiverings, the Pain at the fame Time going off gradually ; the Senfe of Fulnefs and Cough, with the other Symptoms diminifhing, and the Patient being only able to lie on that Side which was moft affected.

SUPPURATION, unlefs the Abcefs breaks foon into Lungs, or the *Pus* is abforbed into the Veffels, is generally fatal, producing Hectic Fever and Pulmonary Confumption, (Vid. the Pulmonary Confumption)

If the Inflammation be very violent, Gangrene and Mortification fometimes, tho' feldom, arife: In this Cafe the Breathing is fomewhat relieved; but the Pulfe becomes extremely quick and weak; the Patient fpits up a blackifh foetid Ichor, and is foon carried off.

The Inflammation of the LUNGS is a Difease of the Bronchial Artery only.

They who are deftroyed by acute Difeafes, are by no Means cut off at laft by an Inflammation of the Lungs, s has been fuppofed.

It should be diftinguished from Difficulty of breathing in Fever, from other Inflammations of the Breast, from Catarrh, Affina, and those Difficulties of breathing which happen in chronical Difeases.

It admits of a natural Cure,

Ift, By

If, By a Secretion of *Mucus* from the Lungs, fpit up at firft thin and with uneafinefs, becoming gradually thicker, and of a greenish or yellow Colour, often mixed with Blood, relieving and gradually diminishing the Symptoms, fo as to carry off the Difease before the fourteenth Day.

If there be a great *Hemorrhage* from the Lungs, it happens for most Part, that either the Patient is immediately fuffocated, or an Ulcer is produced.

If the Matter fpit up contains hard Maffes, or is of different Colours from what has been defcribed, altho' the Symptoms are relieved, there is Danger of an Ulcer.

If the Secretion continues watry, the Difease is fometimes encreased by it.

2d, By an Inflammation or Hemorrhage arifing in fome other Part of the Body.

If the *Peripneumony* takes place after a cold Fit of Fever, and the Fever continues along with the Inflammation, which has been relieved either naturally or artificially, a Crifis in the fecond Week fometimes carries off both Difeafes.

The Cure is performed (1) by fimple Refolution, or (2) by Evacuation from the Mucous Glands.

The first is obtained

(A) By emptying the Veffels of the Lungs.

(a) By Bleeding. We are to be ruled as to the Quantity of Blood taken away, by the Strength of the Patient. For when from the Violence of the Inflammation the Pulfe is fmall, very frequent and irregular, it often rifes and becomes regular after the Operation. From the Difeafe's encreafing or recurring, it is frequently neceffary to repeat this Evacuation two or three Times. Cures

(b) By producing a free Circulation in the other Parts, by (N° 4) or (N° 13).

(c) By keeping the Patient in an Air moderately warm,
 (d) With this view the Antients applied Ligatures on the
 Arms and Thighs, to confine the Blood in the Veins-

(e) The warm Bath has been used for the fame Purpose in other internal Inflammations.

(B) By inflaming another Part; (a) by rubbing $(N^{\circ} 22)$ on the Side, (b) by Blifters which are applied with greater Advantage to the Side and Back, than to the Extremities..

(C) By exhibiting Medicines which relax the Cappillary Veffels throughout the Syftem, and thereby diminifhing the Quantity of Blood in the Lungs. (Vid. N°s 13, 4.)

To thefe have been added flimulating Medicines (as Volatile Alkali) to produce Sweating: but they often do more Hurt by their Stimulus, than Good in any other Way.

For the Management with Regard to the Food (Vide the Phrenitis.)

The fecond Method of Cure is performed,

(A) By encreasing the Secretion from the Mucous Glands, by Stimulants.

(No. 28.) R Aq; Puleg: 3jfs

Oxymel: Scillit. 3ij ad 3vi Aq; Menth: Piper. 3j

m Ft. Hauft. Capt: om: ivtâ Horâ.

(No. 29.) R Aq; Puleg: Zjfs Gum: Ammon: gr. x ad xv Syr: Limon: Zij m Ft. Hauft. Capt: ut fupra.

By inhaling the Vapour produced from the Infution of pectoral Herbs. (B) By

(47)

(B) By defending the Mucous Membrane from the Salts contained in the Mucus fo fecreted, with Mucilaginous or Oily Medicines.

(No 30.)	R Amygd: decort: 3j
	Gum: Arabic Zjfs
	Mel 3iv
	Aq; Font fbij
m Et C	A Emultio hibet poculus

m Ft. S. A. Emulfio bibat poculum frequenter.

Or No 25, may be given.

Opiates have fometimes been used, when the Mucus fpit up was thin, and the Cough troublefome: But as for most part they greatly encrease the Difficulty of Respiration, they are commonly hurtful.

(C) If notwithflanding the Spitting, the Inflammation encreases, moderate Bleeding is useful to prevent the Suppuration; but the taking away a great Quantity, diminister or flops the Secretion.

The fame Remedy is to be used, if much pure Blood is fpit up.

During the first Days especially where the Patient is ftrong, the Food ought to be the Farinaceous Decoctions acidulated. To these should be afterwards joined Preparations of the Farinaceous Seeds, with preserved Juices of Fruits, (as Currant Jelly &c.)

The Remedies in the first Method, except the plentiful and repeated Bleeding, may be also used in this; and on the other Hand, those recommended under this Head, may be used along with the first: So that the only Question is, whether the Cure is to be principally trusted to the Bleeding, or Evacuation from the Lungs by Spitting.

The

The first Method is to be followed in strong; the fecond in weak Patients, and when the Difease is accompanied with the Symptoms of first Stage of Fever.

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[49]

The PLEURISY,

Or INFLAMMATION of the PLEURA.

T T has been much difputed, whether this Difease be an Inflammation of the Pleura, or of the external Coat of the Lungs. It appears most probable, that the Inflammation arifes in the Pleura, and fpreads from thence to the Lungs.

Its Caufes are, Cold applied to the Skin; fudden and great Diffention of the Pleura in Infpiration; drinking cold Liquors after being heated by violent Exercife. The Pleurify, and most other Inflammations arife frequently in the hot Fit of Fever, most commonly in the first Period, fometimes in the fecond, and lefs frequently in the third; either from the Inflammatory Diathefis alone, or from a Stimulus, too flight to affect People in perfect Health.

Adhesions of the Pleura to the Lungs affecting the Breath, and the Caufes which render People liable to Peripneumony, have the fame Effect with Regard to the Pleurify.

When a Pleurify, or other Inflammation, arifes in the hot Fit of Fever, it is preceeded by Horror and Rigor, in which In-Cold, Quicknefs of the Pulfe, and feveral of the other flammation a-Symptoms of the first Stage (V. Page 1) These are fol- rifes in Fever. lowed by the Symptoms of the fecond Stage, (V. Page 2) together with those of the Inflammatory Diathefis; (Vide Page 28,) after which, the Pain and other Symptoms of the Inflammation in the Side or Part affected, take Place, and the Symptoms of the first Stage of Fever commonly leave the Patient; those of the Inflammatory Diathefis con-G tinuing

The Manner

Caufes.

tinuing. Sometimes the Symptoms of the first Stage of Fever are relieved; in this Cafe, Anxiety about the *Precordia*, transparent Urine, particular Evening *Paroxifms*, &c. continue along with the Inflammation, produce a different Progress and Termination of the Difease, and require a Variety in the Treatment.

Symptoms and Progrefs of the Pleurify.

mainning:

When the Inflammation of the *Pleura* comes on, whether it be the original Difeafe, or preceeded by the Symptoms of Fever; it begins with an acute Pain in the Side, above the fhort Ribs, fometimes towards the Back (when it is lefs violent,) encreafing greatly on Infpiration, diminishing on Expiration, and from thence producing a Difficulty of Breathing: The Inspirations are fhort, the Ribs kept as much at Reft as poffible, and the Diaphragm and Mufcles of the *Abdomen* move confiderably.

In all Difficulties of Refpiration carried to a Height, the Patient is obliged to have his Body more or lefs in an erect Pofture: the Shoulders and Clavicles are raifed: the Noffrils move, and the Mouth is opened.

The Difficulty of Breathing in a Pleurify produces a Cough, which is fhort, fupprefied, and fome-times dry; but at others attended with a fpitting of Mucus from the Lungs, at first thin, and proceeding afterwards exactly as in the Peripneumony, and relieving or curing the Difease in the fame Manner.

If the Patient be not affected with Inflammatory Diathefis before the Inflammation, it is always brought on in a few Hours; and its Symptoms (Vid. P. 28) are fometimes fo violent as to defiroy the Patient: The Difficulty

culty of Refpiration alfo encreases, fometimes to fo great a Degree, as to prevent the Blood from paffing through the Lungs; the Brain is compressed, and he is fuffocated with the fame Symptoms as in the Peripneumony (Vide Page 43, 44.)

If Gangrene and Mortification take Place, the Pain ceafes fuddenly, without any apparent Caufe; the Pulfe is very frequent, quick, finall, weak, and often irregular; Delirium with Convultions come on, and the Patient is certainly deftroyed.

2.4 If he does not die in any of these Ways, and if the Difeafe be not relieved by the Spitting, or fome other natural or artificial Method, Matter is form'd; which is thown by irregular Coldnefs and Shiverings, the Pain going off, or becoming flight and obtufe. If it points externally a Fluctuation is felt on the Part affected; if the Pus is contained in the Cavity of the Thorax, it is felt between the lower Ribbs, and the Patient cannot lie on the oppofite Side. If any Means of Refolution have been applied, fo as to diminish the Inflammation, and a Suppuration neverthelefs comes on, it often does not begin till much later in the Difeafe, fome-times not before the fourteenth Day.

This Termination is most commonly fatal. (Vide the Pulmonary Confumption.)

It is cured naturally by a Spitting, & the other Means enumerated in the Peripneumony. (Vide P. 45)

If this or any other Inflammation begin with the Symp- Progress of an toms of the first Stage of Fever, and they remain after Inflammation the Pain has arisen, when the Inflammation is diminished attended with

Fever.

by

If the Inflammation go off by Refolution, the Pleura and external Membrane of the Lungs generally adhere.

Diffinctions

It fhould be diffinguished from other Inflammations of the Breaft, *Diaphragm*, intercoftal Muscles, Inteffines and Liver; from spafmodic Pain in the Side or Inteflines; and from Rheumatism of the Side.

Cure of the Pleurify. As in the Pleurify, the Inflammatory Diathefis or general Inflammation, is greater than in moft topical One's; it yields better to Evacuations, efpecially to Bleeding. To this therefore in general we truft principally for the Cure; and in the Cafe of a ftrong Habit, take away from twenty to thirty Ounces of Blood at once; repeating the Flood-letting, if the Difeafe continues, to twelve, ten, eight Ounces, or lefs, according to the Circumflances, as long as the Pulfe is hard, unlefs the Symptoms of the firft Stage of Fever have continued: in this Cafe, fuch a Quantity of Blood muft not be taken aways nor the Bleeding fo often repeated.

All the other Remedies recommended in the Peripneumony, are equally applicable in the Inflammation of the *Pleura*; and are to be used in Aid of the Bleeding from the System in General.

Cupping Glaffes, with and without Scarification, have been applied in both Difeafes, fometimes with Advantage; but the cold Air to which the Skin is exposed during the Operation, often over-ballances the good Effect of it. The

(53)

The Belly is to be kept open by Antiphlogiftic Laxatives; (Vide N° 8.) but firong Purgatives are not to be given in any Inflammation of the Breaft, where the Mucous Membrane of the Lungs is not the principle Part affected.

The Food is to be the fame as in the Peripneumony.

When the Symptoms of the first Stage of Fever, preceed this or any other Inflammation, and remain after it takes Place, Bleeding often carries off the Inflammatory Diathefis; but the Inflammation and Fever continue: In this Cafe, further Evacuation is of no ufe, and therefore we must proceed in the Cure by the other Methods recommended in each Inflammation; in this for Example by Expectorants, Relaxants, Blifters, \mathfrak{C}_c . If the Fever thould continue, and the Symptoms of Weaknefs come on, the Strength must be fupported, as has been scome in the End of Fevers, notwithflanding fome little Pain remaining in the inflamed Part.

The INFLAMMATION of the INTERCOSTAL MUSCLES.

THIS Difeafe has been called the Spurious Pleurify, The Spurious It arifes nearly from the fame Caufes, is attended Pleurify. almost with the fame Symptoms, and is to be cured in the fame Manner.

Its Difference from the Pleurify just now defcribed, appears in these Particulars; it is produced by external Causes; a Swelling appears externally, with Pain on the Part's being touched; there is less Pain on Inspiration, and of Consequence not fo great a Difficulty of Breathing;

Treatment of an Inflammation attended with Fever. Breathing; the Cough is for the moft Part dry; the general Inflammation does not arife in fo great a Degree; the Lungs are not fo apt to be affected; Gangrene and Mortification feldomer take Place; the Patient is never fuffocated; and there is but little Danger from Suppuration.

It is feldom or never cured by a Spitting; but on the other Hand Fomentations and Poultices are applied to the Part, with much greater Effect than in the Pleurify. Purgatives may also be used with greater Freedom.

The INFLAMMATION of the

MEDIASTINUM.

Inflammation of the Mediaftinum. THIS Difeafe is also in many Things fimilar to the Pleurify: its Caufes are the fame. The Pain strikes obliquely from the Sternum through the Breaft to the Back: there is a Difficulty of Breathing, and Cough, attended fometimes with a Spitting. These Symptoms however, are not fo violent as in the Pleurify; nor is the Pain on Infpiration fo much increased, or the Inflammatory Diathesis fo great: Suppuration is with greater Difficulty avoided; and, when it happens, is commonly fatal.

It is to be cured in the fame Manner as the Pleurify.

Conservence not to great a Difficulty o

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(55)

The INFLAMMATION of the

PERICARDIUM.

THIS alfo has many Things in common with the Inflammation of the *Pleura*; but the Pain is deeper feated, and is not fo much encreafed upon Infpiration.

If the Heart is affected, the Pulfe becomes fmall, irregular, and intermittent, with immenfe Anxiety. The Patient falls into Syncope's, and is foon deftroyed.

It is to be treated alfo as the Pleurify.

The PARAPHRENITIS,

INFLAMMATION of the DIAPHRAGM.

I T arifes from the fame Caufes as the Inflammation of the *Pleura*. The Pain is very violent and deep feated in the lower Part of the Breaft, or under the fhort Ribs; or firiking between them and the Back: The Belly is drawn up and kept as much at reft as poffible; the Refpiration is exceffively quick, fmall, and difficult, and performed principally by the Mufcles of the Breaft; the Patient is frequently affected with Sicknefs and Hiccup; the Pulfe is for the moft Part very frequent, fmall, hard, and often irregular; there is great Anxiety; the other Symptoms of Irritation (Vide P. 28,) come on, and Death frequently enfues. If this does not happen, the Progrefs, Termination, and Manner of Treatment are nearly the fame as in the Pleurify.

The Paraphrenitis.

Inflammation

of the Peri-

cardium.

Of these Inflammations in the Breaft, that of the *Pleura* near the fore Part of the Ribs, and that of the Lungs are the most frequent.

The Inflammation of the *Pleura* is almost always attended with fome Degree of the Inflammation of the Lungs; fometimes all these Parts are inflamed together; but more commonly only one takes Place in the fame Patient.

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The INFLAMMATION of the INTESTINES.

THE Inflammation of the exterior Coats of the INTESTINES (of which the Symptoms and Manner of Treatment are here laid down) differs greatly from that of the Interior, Villous, or Mucous Membrane; this laft being attended with Dyfentery or Apthæ. (Vid. the Dyfentery.)

It is brought on by external Cold, indurated Faces heavy or hard Bodies lying in the Inteffines, Introfufceptions, Adhefive Stimulants, Hernias, and Wounds. It takes Place alfo, as other Inflammations in the Beginning of a Fever. (Vid. the Pleutify.)

The Symptoms are a Pain in the Belly, occupying different Parts according to the Inteffine affected ; but fixt to the Place in which it arofe at first. It is always extremely acute; fometimes however it encreafes a little by Fits, and fometimes is a little eafier. For the moft Part the whole Belly is affected, at the fame Time, with fpafmodic Pains & Flatulency. The Pulfe becomes fmall, hard, frequent, quick, and often at laft irregular and intermittent. Coldness of the Extremities together with a fudden and great Profiration of Strength take place. The Mufcular Fibres of the inflamed Part contract fo that nothing can pais through; and fometimes the Sphinster Ani in fuch a Manner that a fmall Pipe can with Difficulty be introduced into the Rectum. Flatulencies in the Stomach, Sicknefs, violent Reachings, and Vomiting are frequently produced. The Tongue is dry, with great Thirft, and the Urine often pale, fometimes in finall Quantity and difcharged with Difficulty. The Breathing is quick, the Patient bending forward, and compreffing his Belly, the abdominal Muscles being fomeThe Difeafo

The Caufes

Symptoms and Progress.

fometimes fpafmodically contracted. At last Delirium and Convulsions come on from the Irritation, and the Patient is destroyed.

This Inflammation frequently terminates in Gangrene and Mortification, in which Cafe the Pain goes off, and the Patient appears to himfelf for a little relieved; but the Pulfe continues frequent, fmall, and often irregular, and the Extremities cold; *Delirium* and Convulfions foon come on, and he is cut off.

If it is left to itfelf, this Difeafe kills fometimes in ten or twelve Hours, and almost always before the End of the third Day; fo that there is feldom any Suppuration: but if the Inteffines fuppurate, the Pain diminishes, and is converted rather into a Senfe of Diffention; irregular, cold Fits, with the other Symptoms of Internal Suppuration arife; and the Contraction of the Muscular Fibres of the Inteffines, the great Frequency of the Pulfe, and other Symptoms go off.

The Abcefs may break either into the Cavity of the *Abdomen*, or into the inteffinal Canal; In the first Cafe it is generally fatal, producing a Hectic Fever: (Vid. the Pulmonary Confumption.) In the fecond the Pus is evacuated by the *Anus*, fometimes at first pure, afterwards mixt with the Faces, gradually diminishing if the Ulcer heals, and the Patient is reftored; or a confiderable Quantity of Matter continues to be discharged, a Hectic Fever is produced and he finks.

At the Beginning of the Difeafe, after the Pain has continued for a few Hours, fometimes a great Secretion takes Place in the Inteffines, the Villous Membrane is alfo affected with Inflammation, and it is converted into a Dyfentery: On the other Hand, when in an Inflammatory Dyfentery the Secretion is imprudently checked

(59)

checked by Aftringents, this kind of Inflammation often arifes.

It should be diffinguished from the Stone in the Kidneys or Ureters, from Inflammation of the Kidneys, and other abdominal Viscera; from the Pleurify and other Inflammations of the Thorax ; and particularly from fpafmodic Pains in the Inteffines, and Obstruction where there is no Inflammation.

It is to be cured by the immediate Application of the most powerful Means of Resolution; we are therefore to bleed to the Quantity of 12 or 16 Ounces, notwithflanding the fmallnefs of the Pulfe, and feeming Weaknefs; for the Pulfe becomes fuller, and the Proftration of Strength goes off, when the Inflammation is diminished; as on the other Hand they are encreased by Stimulants; the Bleeding is to be repeated at fhort Intervals till the Pulfe becomes foft.

Purgatives are contraindicated by the Contraction of the inflamed Part, and when they have been given, & have not purged, they have often evidently encreafed the Pain, and other Symptoms : But Evacuations from the Inteffines by Means of Glyffers, are made with Advantage, (N° 9,) may be thrown in every two or three Hours, till a Stool is procured. Relaxants have not fo frequently been exhibited internally, as in other Inflammations; neverthelefs when ufed, they are of great Service. (Vid. Nº 13, 4.)

The Circulation is to be brought to the Surface of the Body by the warm Bath, or Fomentations applied to the Belly: but great Care is to be taken, leaft Cold from the Air or Moisture in coming out of the Bath, or changing the Fomentations, should do more Mischief than H 2 the

Cure.

the Remedy does good : These are also useful when the *Anus* is much contracted, fo that Glysters cannot be given.

Some Degree of Inflammation of the Skin of the Belly has been raifed by Cupping-Glaffes with Benefit: but Bliffers have not been commonly employed.

If these Means should fail of Success, Opiates fometimes Cure by taking off the Contraction, especially when joined with Relaxants.

(Nº 31.) R	Aq:	Menth:	Vulg.	Zifs	
m, manufake, m		Diacod:			
it and here i	Tart.	Emet	-	gr. 1/3	ad gr. fs.
	m l	Fiat Hay	iftus.		

The Food both during the Inflammation, and for fome Days after it is cured, ought to be Farinaceous Decoctions, or moift Preparations of the Farinaceous Seeds, as Panada, &c.

The INFLAMMATION of the STOMACH.

Caufes.

I T arifes nearly from the fame Caufes as that of the Inteffines, excepting Introfusception, hardened Faces and Hernia; and it is more liable to be produced by Acrid Subflances.

Symptoms and Progrest.

The Symptoms are for the moft Part the fame in both Difeafes, excepting the Situation. In this Cafe the Pain occupies the Region of the Stomach; and even the mildeft Things thrown down encreafe it greatly, and at the fame Time bring on the Sicknefs and Vomiting: The Difeafe is altogether more acute, and unlefs the moft powerful Means of Relief be immediately employed, proves fatal,

(61)

It is cured by the fame Method as the Inflammation of the Inteffines; excepting only that we can feldom exhibit any internal Medicines, on Account of the great Irritability of the Stomach.

Difference of the Difease when arifing

The

Cure

If either of these Inflammations are occasioned by Wounds, there is frequently little or no Pain, although from Wounds. all the other Symptoms take Place and the Patient is cut off

The INFLAMMATION of the RECTUM.

T is feldom fo acute as that of the Duodenum, Jejunum or Ilium, nor fo apt to produce finalnefs of the Pulfe, or Coldnefs of the Extremities, or to affect the Stomach, neither is there fuch a Stricture as to render the Inteffine impervious.

The Cure is the fame, except that Purgatives are ufed with Advantage, and Laxatives ought always to be employed.

The INFLAMMATION of the SUBSTANCE

Of the LIVER.

Caufes

I T is produced by the common Caufes of Internal Inflammation, and by Obstruction of the Hepatic Ducts, or *Ductus Communis Cholidochus*, and is more common in warm Climates.

It arifes fometimes at the Beginning of a Fever, as other Internal Inflammations. In this Cafe it is preceeded by the Symptoms of the first Stage, and the Fever for the most Part continues. (Vid. the Pleurify.)

Symptoms and Progress.

The Inflammation begins with an obtufe Pain in the Region of the Liver, which is often but just fensible. This Pain gradually encreases, but is never very acute, if the Membranes are not affected; nor is it accompanyed by any great degree of General Inflammation. The Pulfe therefore at the Beginning is not at all altered, when the Patient is free from Fever; and frequently but very little till the Time of Suppuration. The Swelling when large, or when the Convex Part is affected, is externally visible, and occasions a Difficulty of breathing with a Cough, but feldom any confiderable fpitting; when the Concave Part is inflamed, if near the Stomach, it brings on Sicknefs, Thirft, Hiccup, Vomiting; or if near any confiderable Hepatic Duct, or the Ductus communis Cholidochus, it prevents the Paffage of the Bile into the Duodenum, and a Jaundice takes Place. But in all other Cafes of Inflammation of the Liver, the Quantity of Bile thrown into the Duodenum is encreased, and the Evacuations become bilious.

Terminations

All the Terminations of Inflammation may poffibly happen

(63)

happen in this Diffemper; but by much the moft common is Suppuration, which is attended by the ordinary Signs of internal Ones, together with a Fluctuation which is fometimes felt when any Part of the Liver immediately under the Integuments is affected: the preceeding Symptoms of the Difeafe at the fame Time diminith or go off entirely.

When the Abcefs is confiderable, a fufficient Quantity of Matter is abforbed to produce a Hectic Fever. (Vid. the Pulmonary Confumption.)

The Pus opens to itfelf a Way (1) into the Inteffines, by deftroying the Coats of an Hepatic Duct, or a Part of the Duodenum, or (2) into the Cavity of the Belly, or (3) laftly, if the Liver adheres to the Peritoneum, through the Integuments of the Abdomen.

(1) In the first Cafe feveral Purulent or Ichorous Stools are immediately brought on, and the Matter afterwards continues to come away with the Faces.

(2) In the fecond, the Senfe of Weight, and the Swelling (if any there were) diminifh or go entirely off; the Inteffines are ulcerated; Pains in the Belly and Dropfical Symptoms come on, and, together with the Hectic Fever, kill the Patient. When the Pus is contained in the Abdomen, it fometimes gets through the external Integuments, particularly at the Rings of the Mufcles.

(3) In the laft Cafe, there is an Ulcer opening externally.

In whatever Way the Pus is evacuated, unlefs the Patient is affifted by Medicine, a Hectic Fever is produced, and he dies,

Some-

Sometimes after Inflammations of the Liver, and other Internal Parts, on opening the Body, Collections of Water without any Appearance of Pus have been found.

Distinctions

It fhould be diffinguished from Inflammation of Pleura, Diaphragm, Muscles of the Abdomen, and Spasmodic Pain.

Cure.

The Cure is performed by Bleeding, Blifters, Relaxants &c. as in other Internal Inflammations; but the Symptoms at the Beginning not alarming the Patient, it is often too late before the Remedies are employed; and from the Slightnefs of the General Inflammation, Evacuations having lefs Effect, this Difeafe frequently terminates in Suppuration, which however is to be avoided if poffible.

For this Purpofe we are to bleed to twelve or fourteen Ounces any Time before the fifth Day; efpecially if there is any *Inflammatory Diathefis*: and the Bleeding is to be repeated, if the General Inflammation continues, or the Patient is relieved, but not cured.

If there is a free Paffage for the Bile into the Duodenum, Purgatives are also useful (Vid. N° 21.)

In other Cafes Relaxants (Vid. Nº 13. 4.) and Blisters applied to the Part are principally to be depended on, and in all are ufeful.

If it be too late for the Application of these Remedies, or if they fail and a Suppuration takes Place; as soon as we know this from the Symptoms (N° 11) is to be taken four or five Times a Day, encreasing the Quantity of the Bark, so that the Patient shall take from three Drachms to half an Ounce every 24 Hours.

If the Abcefs points externally, we are to open it as foon

foon as poffible; provided their appears from its Immobility that there is an Adhefion of the Liver to the *Peritoneum*, and the Dofe of the Bark is to be encreafed to 3 i ad 3 ij. every 24 Hours, 'till a good Suppuration and Granulation comès on. The Medicine is to be ufed in the fame Manner, if from the Purulent or Ichorbus Stools we judge that the Abcefs has broke into the *Duodenum*.

Mercury has been given with the fame Intention, in as great Quantity as could be taken without Salivating the Patient: but the Bark appears to me to be preferable.

When any Abcels breaks into the Cavity of the Abdomen, the fame Means may be used, but the Difease is commonly fatal.

The INFLAMMATION of the MEMBRANES of the LIVER.

IT arifes from the fame Caufes as Inflammation of the Subflance, but the Symptoms differ as follows, the Pain is more acute, it is attended with Inflammatory Diathefis, refembles more a Pleurify of the Right Side when the Convex Part is affected, and is to be treated nearly in the fame Manner as that Difeafe.

I

The INFLAMMATION of the CELLULAR MEMBRANE, lying under the *PSOAS* Muscle.

T is produced by the common Caufes of Internal Inflammation, and alfo by Strains, and Bruifes.

It agrees very much, excepting for the Situation, in its Symptoms, Progrefs, and Termination, with the Inflammation of the Liver: i. e. the Pain is fituated in the Back, for the moft Part rather lower than the Region of the Kidneys; both it, and the other Symptoms of the Inflammation, are flight, and feldom attended with any great Degree of Inflammatory Diathefts: The Difeafe likewife terminates commonly in Suppuration, notwithflanding which, the Pain fometimes continues, falling gradually lower; in other refpects the ufual Symptoms of Internal Suppuration arife, fuch as Irregular Coldnefs, Hectic Fever, $\mathfrak{C}c$.

The Pus makes its Way through the Cellular Membrane, fometimes into the Cavity of the Abdomen, when it is fatal, (Vid. Inflammation of the Liver); fometimes externally in the Thigh, a little on the out-fide of the Lymphatic Glands in the Groin; fometimes it appears in the Loins; or diffects along the Attachments of the Abdominal Mufcles to the Spine of the Ilium, and forms a Tumor, with Fluctuation in the Hip; or it paffes down into the Pelvis, and gets to the Perineum, or refembles the Hemmorhoides; often producing Caries in the Bones of these different Parts, and Pain on moving, or Inability of Motion in the Muscles,

When

(66)

When the Tumor and Fluctuation appear, the Matter may on Preffure be most commonly forced back; and when the Abcefs is opened, a large Quantity of it runs out; it is likewise afterwards preffed out by moving the Muscles of the Parts affected.

(67)

It thould be diffinguished from Inflammation, and Stone in the Kidneys, or Ureters; Bubos; Hemmorhoides; and Inflammation, and Suppuration of those Parts where the Pus in this Difease makes it's Appearance externally.

It is to be treated in the fame Manner as Inflammation of the Liver, (except for the Situation), both in the State of Inflammation and Suppuration.

I 2

The

(68)

The INFLAMMATION of the SUBSTANCE, And External COAT of the KIDNEY.

HIS Difeafe is not common, as a Determination of Fluids to the Kidneys, occasions an encreafed Secretion of Urine, fometimes mixed with Blood, which prevents the Inflammation.

It arifes from the common Caufes of Internal Inflammations, or from external Injury.

A Stone in the Kidney produces Inflammation, but most commonly of the Internal Membrane and Tubuli Uriniferi.

The Inflammation begins with a Pain in the Region of the Kidney, (i. e. in the Back, near the Articulatiop of the fhort Ribs, higher up on the Left Side than on the Right) often fhooting down by the Ureter to the Bladder, and by the Spermatic Chord to the Tefficle. The Urine is pale, its Evacuation frequent, in fmall, Quantities at a Time, and perform'd with Difficulty, a Senfe of Heat and Pain: there is fometimes external Rednefs. The Leg of the Side affected is feized with Stupor ; and the Pain is encreafed upon flanding, walking, coughing, lying on the oppofite Side, or in any other Cafe where the Kidney is moved, or the furrounding Parts extended. The Pulfe is hard and frequent, and as the Pain encreases, often becomes fmall, quick? and fometimes intermittent, with Coldness of the Extremities, cold Sweats, Sicknefs, Vomiting, Fainting, Delirium, Convultions, &c. as in the Inflammation of the Inteffines, although not in fo great a Degree, nor arifing fo foon in the Difeafe.

It admits of a natural Cure, viz. the Urine grows higher coloured, is fecreted in greater Quantity, and at laft is copious, thick, and mixed with Mucus, relieving and gradually diminifhing the Pain and other Symptoms, till the Patient's Health is reftored.

It may also go off by *Metaftafis*, $\mathfrak{G}c$. as other Internal Inflammations: Or it may terminate in Gangrene and Mortification, which in the Interior Parts of the Body are almost constantly fatal, and nearly with the fame Symptoms, (Vide the Pleurify.) In this Cafe there is likewife an Alteration of the Colour of the Urine, accompanied with Factor; or the Inflammation may go off and leave a Schirrus, which is known from the Patient's being relieved, although the natural Cure has not taken Place, nor any Symptom of Suppuration appear'd; from a fensible Hardness fometimes continuing in the Part; a Stupor in the lower Extremities on the Side affected; and a Diminution of the Secretion of Urine.

Or the Kidney may fuppurate, which is indicated by the common Symptoms of Internal Suppuration.

It is to be remarked, that, although Inflammations often fuppurate on the fourth Day, yet if any natural or artificial Method of Cure be applied, or even when a Membrane is the Part affected, the Suppuration is retarded, but neverthelefs if the Remedy fhould not be fufficiently powerful, comes on at laft, fometimes fo late as the fourteenth.

The Abcefs breaks (1) into the Pelvis, (2) into the Cavity of the Abdomen, (3) or laftly, externally.

(1) In the first Cafe, the Sense of Weight and Diftention of the Kidney, if any there were, fuddenly goes off, goes off, and at the fame Time the Urine is mixed with **Pus**, which fubfides to the Bottom, at first in great Quantity, and continues afterwards to come away in lefs.

If the Matter is white, thick, and not foctid, the Ulcer fometimes heals; otherwife a Hectic Fever comes on, and the Patient is cut off; or laftly, the Ulcer may oontinue a long Time, without proving fatal.

The Ulcer generally heals foon, or not at all.

(2) if it break into the Cavity of the Abdomen, it kills, (Vide the Inflammation of the Liver.)

(3) If it open externally, the Urine comes away with the Pus, and an Ulcer is formed of very difficult Cure.

Inflammation of the Kidney should be diffinguished from a Stone obstructing the Ureter, from Inflammation of the *Pfoas Muscle*, and other adjacent Parts, and from Inflammation and spasmodic or other Pains in the Intestines.

The Cure is to be performed by the Medicines commonly used in Internal Inflammations; to which may be added the following

(1) Gentle Diuretics.

R. Sem. Lin. 3fs Sem. Petrofel. 3fs Aq. Font. Bullient. 15j Infundantur fimul per Hor. fs. et cola. Collatur. Adde.

Succ: Limonum et Sach. Alb. Q. S. ad gratam Acedinem Dulcedinemque bibat Poculum frequenter.

A moderately warm Semicupium may also be used to promote the Secretion of Urine,

(71)

(2) Mild Laxatives and Glyfters. (Vide 9, 8.)

(3) If there should be any External Symptoms, Fomentations and Poultices may be used. (Vide N^o 23.)

Lying on the Back, as it prevents the Paffage of the Urine into the Bladder, is to be avoided.

If the Kidney fhould fuppurate, the Treatment is to be nearly the fame as in Suppurations of the Liver, (Vid. Infl. of the Liver.) and the Patient is alfo to take Infufion of Linfeed, or Decoction of Althea Root for his common Drink after the Abcefs is broke, in order to dilute the Urine, and prevent it from flimulating the Surface of the Ulcer, which would hinder the Cure.

Some have proposed the Exhibition of the Balfams of Trees, to promote the Granulation; but the Bark appears to me to be preferable.

The Management of the Food &c. in these Suppurarations, is to be the fame as in the Pulmonary Confumption.

Palata TTO IS -

The

The INFLAMMATION of the BLADDER.

THE Inflammation of the Exterior Coats of the Bladder differs alfo from the Abrafion, Exulceration, or Inflammation of the Internal or Mucous Membrane.

It is produced by the Caufes of Internal Inflammation, by the Rubbing or Preffure of a Stone, and external Hurts.

The Neck of the Bladder is thicker than the Fandus, and more exposed to Injury from the Stone and Bruifes.

The Stone in the Bladder more commonly produces an Inflammation or Abrafion of the Mucous Membrane than this Difeafe.

The Inflammation begins with a violent Pain in the Region of the Bladder, i. e. in the Perineum, or in the Belly, immediately above the Os Pubus, deep feated, and fometimes attended by a Rednefs in thefe Parts. If the Neck be the Part affected, there is a Retention of Urine together with a conftant Stimulus to its Evacuation; if the Bottom be the Part difeafed, there is a continual dribbling, with great Efforts to throw out a largerQuantity at a Time which the Patient conceives to be contained in the Blad der. Thefe Symptoms are accompanied with frequent Attempts to expel the Faces with which the Rectum appears to the Patient to be always loaded; thefe encreafe the Pain very much, particularly when any Faces are actually contained, and especially if they are hard. The Pulse is frequent and hard, the Extremities become cold; there is immenfe Anxiety and Reftleffnefs, with Sicknefs, Vomiting, Delirium, and the other Symptoms of Irritation, as in the Inflammation of the Inteffines, and the Patient for the most Part is cut off in a short Time.

(73)

It also frequently terminates in Gangrene and Mortification, the Pain goes off, but the other Symptoms continue, and the Patient dies foon after.

Or it may be carried off by an encreafed Secretion of Mucus from the internal Membrane, gradually relieving the Symptoms ; or by a Metastafis.

Or if the Difease should not be fo violent, especially when the Neck of the Bladder is the Part affected, it may proceed to Suppuration, most of the Symptoms going off; uncertain Rigours and Coldnefs taking Place; and a difficulty in making Water, or a total Retention, with a conftant Irritation to its Evacuation, or a Tenefmus, with a Senfe of Weight, (as the Abcefs occupies the Neck or Fundus,) remaining till the Pus is Evacuated.

The Matter may make its way into the Bladder, & come away with the Urine, leaving an Ulcer there; or into the cellular Membrane, and from thence externally by the Perinæum, after deftroying the circumjacent Parts in its Paffage, and producing a Sinous Ulcer; or it may get through the Peritoneum into the Abdomen, when it generally brings on fatal Symptoms. The Ulcers in the Bladder and Perinæum, are of difficult Cure.

It should be diffuinguished from Inflammations of the Diffinctions. circumjacent Parts, and from Retention of Urine produced by other Caufes.

It is to be cured by the common Means of Refolution Cure. in internal Inflammations; as Bleeding, Relaxants, &c.

Thefe are to be employed immediately on the Appearance of the Difeafe, and profecuted with Vigour or it will foon be fatal. There should be added gentle Laxatives, or Glyffers to keep the Belly open, efpecial-

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(74)

ly the first, as Glysters by pressing on the Bladder, when a Part near the *Rectum* is inflamed, may be detrimental, and should therefore, only be used when there are indurated *Faces*.

(N° 9.) but in fmaller Quantity is proper in this Cafe, otherwife (N° 8) may be exhibited twice a Day, or oftner, as there may be Occafion.

If there fhould be External Symptoms, Fomentations and Poultices are to be applied, taking Care that they do no Hurt by their Preffure, and that the Cloaths or Herbs, be not too moift, left the Water fhould run upon the Linen and Bed Cloaths.

(N° 33) R Flor. Cham. Manip. ij. Folior. Rut. vel. Matricar. Manip. j. Capit. Papaver. Alb. fem. dempt. 3j Rad. Alth. recent. 3j
Optime contundantur et coquantur in Aq; Font. q. f. per Minut. v. Decocto Utatur pro fotu et Herb. Coct. pro cataplafmate addendunguent. fimpl. 3j.

If there should be none, the Skin of the Belly, and Perinaum, is to be rubbed with N° 22, which is preferable to Blifters, on Account of the Inconvenience of their Application.

The Drink fhould be mucilaginous Decoctions; and, if the Urine be retained from a Stricture in the Neck of the Bladder, only in fmall Quantities.

In this Cafe too, it is neceffary to evacuate the Urine by Art, to avoid Gangrene and Marzification, but this should be done with great Caution

(75)

If notwithflanding the ufe of these Remedies, and after fufficient Evacuation, a spafmodic Contraction, and Pain should continue; Opiates, as in Inflammations of the Intestines, may sometimes be useful.

If the Bladder fuppurate the Pus is to be evacuated as foon as possible, and the Remedies already recommended in Ulcers of the Kidneys, are to be employed.

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The

The INFLAMMATION of the WOMB.

Caufes.

T arifes from the common Caufes of internal Inflammations, Tearing, Bruifes, external Stimuli and Obftructions of the Menftrua, or Lochia.

It happens frequently after Abortions, and Child Birth, efpecially when the Lochia are prevented from coming on, or are flopt by Cold, or any other Caufe and is then attended with Symptoms different from those, which appear when an Uterus not lately impregnated, is inflamed.

Symptoms and Progress.

In the first Case there is a Pain at the Bottom of the Belly, more diffended, and for the most Part, neither throbbing, nor conftantly very acute; the Pulfe is frequent, especially after Child-Birth, often fmall, fometimes irregular, and in Strong Habits, and after early Abortions hard; the Patient is affected with Delirium, Subfultus Tendinum, and the other Symptoms of Irritation; the Womb gangrenes, and mortifies, & the Patient finks. In the fecond the Pain is more conflant, bounded, and throbbing, the Pulfe Hard, Full, and Strong, with the other Symptoms of General Inflammation; or if the Difeafe rifes to a greater Height, it is fmall, and very frequent, with the other Symptoms of Irritation; Suppuration is also more liable to happen : in both, as different Parts of the Womb are affected, there is Strangury; or Suppression of Urine; or Tenesmus, and Pain in going to Stool; or Pain in moving the lower Extremities; or Swelling with Heat, to be felt upon introducing the Finger into the Vagina, the Os Tineæ being fhut : Univerfal Reftleffnefs, thick Urine, Pain from external Preffure take Place; and, if it flould happen in an impregnated Uterus, an Abortion follows,

It may

It may be naturally cured by the Menfirua, or Lochia, breaking out plentifully; or after Child-Birth, or Abortion, by the Patients falling into a conftant, equal, gentle, long continued Sweat. Or it may terminate in Gangrene and Mortification, with the ufual Symptoms of Internal ones, and kill.

Or it may Suppurate, with the common Symptoms, and the Abcefs formed may break into the Cavity of the Uterus, Bladder, Rectum, externally by the Perineum, or into the Cavity of the Abdomen.

In this laft Cafe it is fatal, and in the others, leaves Ulcers difficult of Cure.

Or it may be cured by Metastafis.

Or it may leave a Scirrhus behind.

Inflammation of the Womb in delicate, or weak Wo- Cure. men, after Child-Birth, where there is no Hardnefs, but great frequency of the Pulfe, is for the most Part fatal. The only Remedies we can employ in this Cafe, are the keeping the Patient in Bed, moderately warm, exciting if poffible a gentle, conflant Sweat, by farinacious Decoctions in fmall Quantities at a Time, but frequently repeated: and applying Antifpafmodic Fomentations, and Poultices, (as Nº 33) to the lower Region of the Belly, and external Parts of Generation; Bleeding encreafes the Weaknefs without diminishing the Inflammation: Relaxants produce great Sweating or Purging, without Relief; and all very confiderable Evacuations are hurtful. The Belly not having hitherto been rubbed with Stimulants and Antifpafmodics, it is worth while to try them, and (Nº 22) may be used : But Blifters, befides the Inconveniency

conveniency of their Application, are apt to render the Pulfe more frequent. In Abortions, and Labours where the Patient has not been fo much weakened, when the Pulfe is hard and not very frequent, it is ufeful to take away Blood, but this Evacuation cannot in general be often repeated with Advantage; and therefore the Cure is afterwards to be committed to Relaxants (N° 4) and antifpafinodic Fomentations and Poultices, (N° 33) taking Care that the first produce no purging, and keeping the Patient in Bed, moderately warm. When the Lochia have stopped, stimulating Emenagogues have fometimes been used, in many Cafes with manifest difadvantage, and feldom with good effect.

If the Pain continue in these Cases, notwithstanding the above Treatment, Opiates may fometimes be given with Success, as in Inflammations of the Intestines.

When the Inflammation attacks a Womb not lately impregnated, the common Remedies used in internal Inflammations are to be employed, according as the Difease is attended with Inflammatory Diathesis, or the Symptoms of Irritation.

We are always to guard against Preffure on the Part affected, whither that Preffure be external, or arife from Urine contained in the Bladder, or from Faces in the Rectum; In the fecond Cafe by the Catheter, and in the third by Glysters, which after Labours, where the Patient is weak, should confist almost folely of watery Fluids.

The Food, when the Patient is much reduced after Labours, must be Animal Broths; otherwise farinaceous Decoctions. If the Uterus fhould fuppurate, we are to endeavour to procure an Exit to the Pus as foon as poffible; which however can hardly be done, except when it points in the Perinæum, where Poultices of Bread, Milk and Oil, are in this Cafe to be applied; and as foon as any Fluctuation is felt, the Abcefs is to be opened.

N. E. Inflammations also fometimes arise in the other Abdominal Viscera; but, being attended with Symptoms fimilar to those already treated of, excepting for the Situation requiring a fimilar Treatment, and happening but feldom, they are not here enumerated.

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(80)

The CATARRH.

T is an Inflammation of, or greater Secretion from the Mucous Membrane of the Nofe, Eyes, Throat, Mouth, or Lungs, and properly should be divided into different Difeafes.

It arifes generally from Cold, fometimes from the Taffons of the Mind, perhaps also from Stimuli.

The Effects of Cold, according to it's different Application are various, viz.

When the Skin is expofed to it gradually, and not to fuch a Degree, as to kill by it's fedative Power, it produces a Contraction of the External Veffels, an Increafe of the Internal Circulation, and Secretions, and checks the cutaneous Perfpiration, but for the moft Part no Difeafe enfues; on the Contrary, greater Strength of the whole Habit: Sometimes however, Scaley Eruptions on the Skin; troublefome Ulcers in the Extremities; difficulty of Breathing with Cough, and a great Secretion of Mucus in the Lungs, where they have been weakened by frequent or long Catarrhs, efpecially where the Cheft is narrow; and in very irritable Parts, (as the Skin in Children) Erifepelatous Inflammations, enfue.

When the Change from Heat to Cold is fudden, it is often followed by Rheumatifus, Catarrhs, Diarrhæas, & Dyfenterys, Inflammations, particularly Internal ones, Fevers, &c. and frequently fuch Changes are attended with no bad Confequences.

Cold has fometimes these Effects, when applyed for a few Minutes; at other Times it fails, unless it be continued longer. The

Caufes.

The Effects of Cold on the Body.

(81)

The Danger is often as great, and fometimes even greater, when a Part only of the Body is cooled.

It is not the abfolute, but relative Degree of Cold, that brings on these Diseases; for whatever the present Heat be, a fudden Diminution is dangerous, and more fo when the Thermometer is high; and Cæteris paribus, the greater the Change, the greater the Effect.

More People are affected by it in Spring, and Autumn, than in Winter, or Summer, on account of the greater Difference, at thefe Seafons, of the Temperature of the Air, in the Day and Night, in Places exposed to the Sun, or in the Shade, and in Subftances, more or lefs compacted.

Cold may be comunicated by the Air, or any folid, or fluid Matter, or it may be generated on the Surface of the Body; but it does not act, in all Cafes with equal Power.

The more readily any Subftance communicates it's Heat the greater are it's Effects, and *e contra*: Hence cold Metals, Stones, and moift Cloaths, effectially of a firm Texture &c. are dangerous.

The Vapours furrounding the Body, defend it from the External Atmosphere; hence Cold Air in Streams, does more Mischief, than when at Rest.

Cold is generated.

(1) By Evaporation; hence Moifture on the Skin, and Cloaths, is extremely hurtful, and efpecially when the Water is pure; as fome Subfrances united with it, Neutral Salts for example in Sea Water, diminish it's Volatility, and confequently it's bad Effects; and others as effential Oils, ftimulate and counteract it,

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(2) By the Solution of Water in Air; hence Winds that have paffed over large Continents, or high Hills, having but little Water Chemically combined, diffolve readily the Matter of the Infenfible Perfpiration, and any Moifture that may be on the Skin, and are apt to produce Difeafes; neither are People thoroughly defended from this Air in Houfes, efpecially thofe who have been much affected with Rheumatic Pains; hence alfo if Water be Mechanically mixed with Air (which in this Cafe is commonly faid to be moift,) the Heat of the Body makes a Solution take Place immediately upon it's Surface, which again generates Cold, an Atmosphere therefore containing it in this State is alfo dangerous.

Air Chemically dry, blown over any moift Place, diffolves the Water, and becomes Cold; hence the Eaft Wind here, and fimilar ones in other Countries are by much the coldeft.

Air into which Water has just evaporated, (as for example in a Chamber of which the Floor or Walls are moist) is cooled both by the Solution and Evaporation of the Water, and also by the Solution of it on the Surface of the Body, and is from these Circumstances extremely apt to bring on Difeases.

An equal Exposure to Cold affects fome Perfons much more than others, and the fame Man at one Time more than at another.

Those of more irritable Habits are more fubject to be injured by it; hence if any one has been furrounded by warm Bodies for a confiderable Time, as in warm Climates in the Summer, especially when long or very warm in Bed, or where cover'd every where with warm Cloaths, Gc. Discases, and those of the worft kinds, kinds, as Fèvers and Dyfentery, are very apt to arife, even from flight Applications of Cold.

If the Circulation be greatly increafed in the external Parts, and the Caufe of this Encreafe have ceafed and Cold be applied, it is feldom that a Man efcapes; and if any cold Fluid, efpecially without Stimulus, be taken into the Stomach, it has the fame Effect, as if it were applied to the Skin : Hence drinking cold Water, or bathing after being heated with Exercife but now at reft, or any other Exposure to Cold, in the fame Circumftances, or going from a Room heated to a great Degree, into the open Air & c. is extremely dangerous.

A Man runs a great risk of catching Cold, when the Powers of Circulation are weak; as after Evacuations, when the Stomach is empty, when the Strength has been reduced by Difease, $\mathfrak{G}c$.

Those un-accustomed to Changes in the Temperature of the Air, and those in whom Cold hath already produced Diseases, are more liable to be affected.

Exposure of a Part of the Eody un-accustomed to Cold, is very apt to do Hurt.

Coldnefs acts more powerfully when joined with Anxiety, Fear, and the other Paffions of the Mind, in which the Force of the Circulation is diminished, or the external Veffels contracted; and also with putrid Vapour, or Air partly unfit for Refpiration.

Cold contracts the external Veffels, throws a greater Quantity of Blood on the internal, and obftructs the cuticular Perfpiration; but its Effects are not in proportion to the Contraction, or Obftruction, but to the Quicknefs of the change of the Circulation, the Irratibility of the Habit and Univerfallity of the Contraction.

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We may prevent it from having any bad Effect by avoiding or counteracting it.

It may be avoided, by covering the Body with Cloaths of a loofe Texture, as Flannels, Callicoes, &c. and wearing them next the Skin, where there is great Danger, and by taking Care not to expose it, in those Circumftances where Cold is most liable to affect it.

It may be counteracted

(1) By encreasing the Force of the Circulation by Stimulants, as Wine, $\mathfrak{C}c$. or Exercise; hence when actuated by any of those Passions which increase the Circulation, as Courage, Enthusias $\mathfrak{C}c$. any Degree of Cold almost can be born without Detriment.

(2) By firengthening the System.

(3) By diminishing the Irritabillity by Opium, Bark, living in a colder Atmosphere, &c.

(4) By gradually accuftoming the Body to bear changes from Heat to Cold, which ought never to be fuch a_s will bring on any Difeafe.

Predisponent Causes of the Catarrh. C A T A R R H S are apter to arife from Cold in the Spring and Winter in variable and cold Climates, and in variable Weather ; and they happen more readily to People who have narrow Cheffs or long Necks, or fuch as have formerly been affected with them, efpecially if Tubercles are left in the Lungs; or to those of lax Habits, or whose Parents were fubject to this Diseafe.

Symptoms

Sometimes the inflammatory Symptoms preceed the encreafed Secretion, in which Cafe it has been called a *Hot Catarrh*; fometimes the Secretion of the *Mucus* is encreafed at the Beginning, the Inflammation coming on afterwards, but feldom in fo great a Degree; when it is faid to be a *Cold Catarrh*.

In the first Cafe the Symptoms, according as the different Parts are affected, are

A Rednefs, Heat, Sorenefs and Senfe of Diffention in the Eyes and Eye-Lids, there being at the fame time a great Secretion of Tears, and watery Mucui, containing neutral Salts, which running down the Cheeks fometimes flimulates and inflames them. When the Nofe is affected, there is a Senfe of fluffing and fwelling in the Noffrils, an Alteration of the Voice, a Lofs. of Smell; and if the Inflammation runs high, there is fecreted a thin Mucus which produces Heat, Sorenefs in the Noffrils, Sneezing, and fometimes Inflammation with Excoriation of the upper Lip; or falling backwards into the Throat, Tirachea, or Lungs inflames them. Thefe are now and then attended by a fwelling of the Nofe, or of the whole Face, with a Degree of Langour and Stupor, and a Deafnefs, Sorenefs of the Ears, and Running from them. When the Throat is the Part difeafed, the Tonfils and other Parts are Red. Sore, and hot; accompanied with a Secretion of watery Mucus, which Stimulates and occasions a constant troublefome tickling Cough, fometimes the whole Mouth is Sore; there are little Excoriations of the Tongue, and a conftant flow of Saliva, with Sorenefs of the Salivary Glands, and the Lips are inflamed and excoriated. When the Larynx or Trachea are affected, a Sorenefs is felt in them, attended with Hoarfnefs, and for the most Part with a troublefome tickling Cough. In the Lungs this Difeafe produces a Sorenefs, Tightnefs, and Senfe of Stuffing in the Breaft, with difficulty of Breathing, and violent Cough, with which either nothing, or only a watery Mucus is at first spit up, and which produces Soreness under the Sternum, and in the Sides, and fometimes Head-Ach, Sicknefs, and Reaching.

Sometimes

It is attended with more or lefs of General Inflammation, according to the Strength of the Patient, or Violence of the Difeafe, the natural Evening Paroxyfm of Fever is alfo encreafed, and with it all the Symptoms; and this together with the Cough, often deprives the Patient of Sleep, efpecially in the fore-part of the Night, going off in the Morning with a gentle Moifture on the Skin.

In Weak or Scorbutic Habits (as they have been called) the Pulfe becomes frequent, but not often hard; the Appetite is loft; and their is great encreafe of the Evening *Paroxyfm* of Fever, and fometimes the Difeafe is preceded by or accompanied with a Fever.

In the Cold Catarrh, the Secretion of the Mucus comes on Firft, there is therefore a Running from the Nofe; but the Matter is not Watery, but Vifcid, tho Thin, & not veryStimulating, or the fame kind of Mucus, in the Throat produces a Cough, by which it is thrown off, and fometimes Naufca, or in the Lungs a Cough with Spitting, (which is much more confiderable after Sleeping) but no great Sorenefs, or Senfe of Stuffing. Thefe are followed in a Day or two by the Inflammatory Symptoms, but not in a great Degree; nor is the whole Syftem often much affected.

There are in this Difeafe all the Varieties imaginable, from the most partial, to the most universal, from the flightefl to the most Violent, from the most Inflammatory to the least Inflammatory, from the whole System being not at all, to it's being very much affected, according ing to the Caufe producing the Diftemper or the Habit of the Patient.

The Symptoms already enumerated, are followed by a Secretion of Mucus in greater Quantity, becoming vifeid, if it was not fo at the Beginning, and lofing it's Stimulus; & if the Inflammation is great, fometimes growing White or Yellow, and being now and then tinged with Blood; as this goes on, or as the other Symptoms gradually abate, the Secretion diminifhing, and the Mucus returning to its natural Colour and Confiftence, till the Difeafe is cured.

When the Patient is in a Cold Atmosphere, the Cough is for the most Part more troublefome; the other Symptoms alfo are prevented from being carried off, and the Difease is prolonged; and if he is fuddenly exposed, a fresh Exacerbation ensues, and it runs through the fame Course: By either of these it may be continued during the Winter, and going off in the Summer, recur upon the Return of the Cold Weather, and from the flightest Cause becomes habitual, and now and then the Secretion is so considerable, that it greatly weakens, and fometimes cuts him off.

If the Inflammation be great, it fometimes runs deeper than the Mucus Membrane, and Angina or Peripneumony come on; and if there be Inflammatory Diathefic, and the Cough be very violent, a pleurify may be produced.

Or an Hemoptoe may arife (vid. Pulmonary Confumption.)

Or an Excoriation, and Exulceration of the Lungs; and of Confequence Pulmonary Confumption, may take place, effectially where there are Tubercles. Or it may be cured by Metaftafis, especially by Eruptions about the Mouth.

It is much apter to terminate ill, in those naturally disposed to be affected; and when cured it often leaves Adhesions of the Lungs to the *Pleura* or *Tubercles*.

Diffinctions It is to be diffinguished from Angina, Peripneumony, the ulcerous Sore Throat, Veneral, and other Exulcerations in the Throat, Pulmonary Confumption, hooping Cough, Afthma and other Difficulties of Breathing, and Inflammation of the Mucous Membrane preceeding or accompanying the Small Pox or Measles.

The Cure is performed, first by weakening the System, by Evacuation according to the General Inflammation, or the Strength of the Patient.

If therefore there fhould be confiderable Inflammatory Diathefis and efpecially, if the Breaft be the Part affected, we are to Bleed to $\frac{3}{5}$ xii vel xvi, & repeat the Operation if the Hardnefs of the Pulfe &c. continue; but if the Inflammatory Symptoms be not great, and do not affect the whole Habit, it is unneceffary, and when the Patient is weak, and the Secretion thin, and in great Quantity, it is even fometimes hurtful.

Purging also diminishes the Inflammation, and may be also used when the Secretion is too great.

(N°34) R Tamarind. Ziij. coque in Aq. Font. Zvj per v Minutos colatur. adde Sal, Cathart. Glaub. zvj. ad x. vel Pollychreft. Rupell. ziiij ad vj. Mann.______Zfs Træ Senn. ziij. ft Potio Purgans capt. mane ij vicibus, Intervallo Horæfs.

Cure

(89)

When the Inflammatory Diathefis is not very confiderable, or where it has been diminished by bleeding, after the Purgative in the Evening, an Opiate may be used.

(N° 35,) R Aq. Cinam. Ten. 3jfs. Aq. Cinnam. Spir. 3iij.
Syr. Diacod. — 3fs ad. 3j. Tart. Emet. gr. — 1/3 ad gr. fs.
Ft. Hauft. capt. H. S.

If the Inflammatory Symptoms flould continue, or the Secretion be ftill too great, the Purgative, and when proper, the Opiate, may be repeated after a Day's Interval.

2dly, By taking off the Inflammation when it occupies the Breaft, effectially if there be any acute Pain, by Blifters applied as near to the Part principally affected as poffible; or when the Throat is fore, or there is Hoarfenefs, by using (N° 22.)

(3dly) By promoting the Secretion, where it is not fufficient, (vid. the Peripneumony and Angina.)

(4thly) By giving Mucilaginous Medicines to cover the Mucous Membrane, and allay the Cough.

10

per

(N° 36,) R Sem. Lin. 3 fs.
Aq. Font. Bull. Ziv.
Infundfimul per Hor. dein adde
Aq. Font. Bull. 3xx.
Syr. Limon. — 3ij.
Colaturæ bibat cyath. calid. frequenter.
(N° 37.) R Aq. Puleg. Zjfs
Sperm. Cœt. 3 fs
Vitell. Ov. Q S.
Syr. Pect. ziij
The hand any inte Hard fumend or (NOL as

Ft. hauft. om: ivta Horâ fumend, or (N° 25, 30,) may be ufed. M When When the Complaint is flight, these Mucilaginous Medicines are often fufficient for the Cure.

(5thly) By reftoring the Circulation to the Skin by Relaxants (N^{os} 4, 13,) which are useful in all Cafes, and where the Inflammatory Symptoms are much diminiscatter field, or have not come on, Opiates are added to them with Advantage.

(N° 38,) R Extract. Thebaic.	gr. if
Amygd: Decort: gr. x	auun die
Tart: Emet. gr. ij	
Ft: Pill: vj capt. juam ter indie	5.

When the Inflammation is great, the Patient fhould be confined to vegetable Farinaceous Food, and the Drink fhould be Mucilaginous warm Infufions, or Decoctions, acidulated; & he ought to be confined to a Room moderately warm; but in flighter Cafes this is not neceffary.

Nothing contributes more to the Cure, than avoiding Exposure to Cold, especially in those Circumstances where it has the greatest Effects on the System, and this Precaution is particularly necessary in those naturally liable to the Disease, or where it hath continued long, or when there have been frequent Relapses.

If it be drawn out to a great Length, and the Secretion hath weakened the Patient, firengthening Remedies are to be employed, and riding on Horfeback in a pure dry Air is frequently of Service, but thefe are only to be practifed when there is little or no Inflammation: Refinous pectoral Medicines have fometimes been given here alfe with Succefs.

insuft, one installors functed, as fare ar.

The

(91) T HE

ERISEPELATOUS SORE THROAT,

SORE THROAT attended with ULCERS.

OR

T is more frequent in the latter Part of the Autumn, than at any other Time of the Year, and it generally attacks Children, and People of lax Habits.

It is often, but not always produced by Exposure to Infectious Vapour; when it is not, it most probably arifes from Cold, in Habits predifposed to the Difease.

It begins fometimes with Rigor and Horror and Coldnefs, but these Symptoms, as well as those affecting the and Progress. whole Syftem, during the Progrefs of it, feem rather to arife from Irritation than from a Regular Fever. The Symptoms of Inflammation in the Throat, are at first a fiery Rednefs, fometimes without much Swelling, fometimes with a pretty confiderable but puffy One, which does not prevent the fwallowing, or breathing in any great Degree, & is attended with a Stiffnefs of the Neck; this is foon followed by whitifh Sloughs, not rifing above the Surface of the Membrane, often furrounded by a Rednefs, which according to the Difeafe is in all the Degrees from a very Florid Colour to almost a Black; the Sloughs change gradually to an Afh Colour, and fometimes to a Blackish one, giving an offensive Smell to the Breath, fpreading and running deeper till the Patient is cut off. In this Cafe, the Parts on Diffection have rather the Appearance of Rottennefs than of an animal putrid Mafs; or the Sloughs fall off, leaving Ulcers, which either fill up and Skin over, or are covered with frefh M 2

Caufes.

Predisponent

Caufes.

Symptoms

fresh Ones; fometimes also the Patient recovers without any fensible Separation.

At the fame Time if the Difeafe be violent, the Mucous Membrane of the other Parts of the Body is affected, and Sicknefs, Vomiting, and fometimes Purging, come on at the Beginning; these generally leave the Patient in about 24 Hours, but if they continue, they add very much to the Danger: the Eyes are also Red and Watery, the Membrane of the Noftrils is inflamed, a watery flimulating Fluid runs from it, and fometimes Hemorhages enfue, which are often fatal if they arife in the third, or fourth Day, or afterwards : there are alfo Inflances of the Vagina's being inflamed, and exulcerated, and of the Menftrua's coming on, although it be not their ufual Period. After a Day or two, the Skin of the Extremities and of the Throat externally, is often affected with Erifepelatous Inflammation, and little Eruptions take place, relieving the Sicknefs, Purging and other Symptoms arifing from the Mucous Membrane of the Inteffines being difeafed,

Predi Donent

. Walkins

Conter.

Sumptony?

and Prografi.

Thefe are accompanied by Symptoms of Irritation, in a greater or lefs Degree according to the Difeafe; when fevere, it moftly begins with *Rigor* and *Horror*, Coldnefs followed by Heat, Frequency of the Pulfe, Reft. leffnefs, Anxiety, Heavinefs of the Head, and Pain in the Forehead; to thefe fucceed the Symptoms of the Inflammation, moft of the others continuing; the Pulfe feldom becomes hard, full and flrong, but often exceffively frequent and fmall: the Evening Paroxyfm of Fever is very confiderable, and is often attended by *Delirium*, even fometimes the firft Night after the Attact; in the Morning the Patient falls into a moderate Sweating, and is fomewhat relieved, but the Symptoms in general general encreasing, he is in many Cafes carried off on the fourth or fifth Day, a remarkable Obfcurity of the Eyes coming on fome Hours before his Death; otherwife the Throat begins gradually to put on a better Appearance, and all the Symptoms diminishing, he is cured. When the Difeafe is very flight, the Syftem is hardly affected.

It is to be diffinguished from the Catarrh, Angina, other Exulcerations, and Aphthæ.

As this Inflammation arifes in lax and irritable Habits, and is not accompanied with general Inflammation, but with the Symptons of Irritation; Evacuations, efpecially by Eleeding or Purging, are not only ufelefs but detrimental.

It is also to be observed in the Treatment, that for the most Part, the Sloughs, which are a Species of Gangrene, appear before any Medicines are applied.

At the beginning a gentle Emetic may be exhibited with Advantage, efpecially if there be Vomiting and Purging.

(N° 39) R Infuf. Flor. Cham. Ziv

Tart. Emet. ---- gr: fs ad gr. j

Solution. bibat calidam fuperbibendo Infus. Flor. Cham.

The Patient is alfo to be kept in Bed moderately warm, If the Purging continues, it is neceffary to check it by Stimulants, or Opiates.

The Action of the Veffels is to be kept up by Stimulants.

(Nº 40) R Aq; Cinnam. ten. Zjís Aq; Nuc. Mofch. 3ij Pulv. Contr. fimpl. gr. viij ad 3) Syr. Limon. ----311

m ft. Hauft. om. tertia vel ivta Hora fumend,

Diffinctions.

Cure.

And if the Ulcers be foreading faft, the Bark in Decoction, to the Quantity of an Ounce, or even more, in 24 Hours, has been exhibited with Succefs, taking Care in cafe the Anxiety and Reffleffnefs are encreafed by it, to omit it.

Wine, as old Hock, may be given along with the Drink, which ought to be acidulated, if it does not produce a Purging.

The volatile Linement may also be applied externally to the Throat with good Effect; and Blifters have been fometimes employed.

In the mean Time the Throat is to be washed with Acid, and Aftringent Gargles; which may also be thrown in by a Syringe, when the Patient cannot use them himself.

(N° 41) R Træ Rofar: Zviij Acid: Vitriol. gutt. x Alumin. — 3fs Træ Myrrhæ 3j m ft: Gargarifma utatur fepius.

The Food may confift of the Substances marked (Fevers Ind. 18. A. a. b. c.)

The

(95)

THE

CHOLERA MORBUS,

DIARRHÆA and DYSSENTERY.

THOSE Purgings, which are attended with a Degree of Inflammation in the Inteffines. are here to be treated of.

A Purging may be brought on by Purgatives, Acidity, or Putreffency, of the Subfrances contained in the *Primæ Viæ*; too great a Quantity of Bile; *Pus* either from an Abcefs, or fecreted from the Blood Veffels; Laxity of the Glands of the Inteffines; general Weaknefs; the Periftaltic Motion of the Inteffines, going on too quickly; and no Inflammation of the Mucous Membrane taking Place, it may go off without any bad Confequences; or weaken the Patient, and cut him off, without terminating in Dyffentery.

Those who have been rendered weak, or irritable by a hot, or long continued Summer, or by living in a warm Climate, or in Putrid Vapour are peculiarly liable to this Difease.

It is produced by Cold, or Putrid Vapour, or arifes as a partial Evacuation in Fever, or from a Purging from any Caufe if it has either continued long, or happened in a Habit predifpofed; or it begins with Phlegmonous Inflammation of the Inteffines.

When the whole Primos Viæ are confiderably affected at the Beginning, Sicknefs, Pain, Flatulency, and Diftention Symptoms of the Cholera Morbus.

Definition

Caufes

tention of the Belly come on, and are accompanied by frequent Vomitings and painful Purging of Bile, and all the other Fluids fecreted into the Inteffines, together with the Symptoms of Irritation, viz. a frequent & fometimes fmall and unequal Pulfe, Heat, great Anxiety and Thirft, and after fometime Cold Sweats, and Spafmodic Contractions of the Extremities; & the Patient finks fometimes in twenty four Hours, and it is called the Cholera Morbus.

of the Diarrhæa.

Definitions

If on the other Hand the Difeafe be very flight, & not attended with much Inflammation, there is a copious Purging of all the Fluids fecreted into theInteffines, with little Pain, Sicknefs, or even lofs of Appetite, or Alteration in the Pulfe, and if the Patient avoid fresh Exposure to the Caufes, these Symptoms leave him in two or three Days, the Faces acquiring their former Confistence, and the Evacuations becoming less frequent.

of the Dy-Sentery.

the Cholera Morbus, If it be in a middle Degree, and does not take place as a partial Evacuation in Fever, it comes on with External Coldnefs, lofs of Appetite, and fometimes Sicknefs and Vomiting; thefe are attended by Flatulency, frequent, copious, thin Evacuation of Bile, and all the other Fluids fecreted into the Inteffines; drynefs of the Tongue and Thirft, a frequent, but not a hard and full Pulfe, and there is generally at first but little Pain; in a Day or two however, the Stools begin to be lefs copious, become frothy, and are preceeded by confiderable Pain, and no Bilious Matter or Faces are evacuated, (excepting now and then,) but they become flimy, often fireaked, or mixed with Blood, and Fætid; and there is the Appearance of Fat, and often hard Maffes, and fometimes Concretions of coagulable Lymph, refembling the internal Coates of the Inteffines, and it appears tention

from Diffection, that the Difeafe has left the upper Part of them, and that it now occupies the Colon, Rectum, and the End of the Ileon: to thefe Symptoms are added Tenefmus, (that is, a frequent, but fruitlefs Attempt to Evacuation) & now and then a Sorenefs about the Anus, & an Appearance of Pus in the Stools: there is also in fome Cafes Strangury; and in others Aphthæ, fpreading through the whole inteffinal Canal to the Throat, especially after the Difeafe has continued fome Time,

The Symptoms of Irritation, together with the Evacuation, fometimes weaken and cut off the Patient in a Week or two, and that even when they were flight at the firft; fometimes again, they diminifh, and the Difeafe runs out to a much greater Length; Swellings of the Belly, dropfical Symptoms, and those commonly attending Weakness, coming on before his Death; but now and then the Purging gradually goes off, and he is naturally cured.

The lower Part of the Colon, and Rectum, alfo fometimes gangrene, and mortify, the Pain is relieved, but the other Symptoms continue and encreafe, the Matter evacuated becomes blackifh, ichorous, and exceedingly fortid, and Death foon follows,

Although the Difeafe at first hath nearly the Violence of the Cholera Morbus, it may end in a Dyfentery; which may alfo be brought on by Purgings arifing from any Caufe, the Stools growing frothy, and the other Symptoms following; in the first Cafe it is more acute, and foon terminates fatally; in the last it often runs out to a great Length, and fometimes goes off.

When a Dyfentery comes on in the Spring, or in cold Climates, there is often a tendency to phlegmonous Inflammation, and it begins with an acute Pain in the N Belly Belly, which is foon followed by a Purging, and attended with Hardnefs, Frequency, and Fullnefs of the Pulfe, and the other Symptoms of general Inflammation; thefe continue for fome Days, and the Difeafe afterwards proceeds as before.

If it takes Place as a partial Evacuation in Fever, it is preceeded by the common Symptoms of Fever, generally thole of a violent one, (Vide P. 13.) the Purging coming on (as already defcribed) in the firft, fecond, or third, and fometimes on any other Day, and the Patient being exhausted by both Difeases, is foon carried off. Sometimes the Fever has the Appearance of an Intermittent, or Remittent, the Purging being more frequent in the Remissions, and either stopping or diminishing in the Exacerbations. Sometimes also the Fever is relieved, and if the Patient be not exhausted, gradually goes off.

Diarrhæas often come on in the Crifes of Fevers, the Fever leaving the Patient, and the Diarrhæa ftopping in a Day or two of itfelf; and fometimes Purgings, without any Dyfenterick Symptoms, happening towards the End of Fever, weaken and kill the Patient.

Exulcerations have been found on Diffection in the Inteffines of those who were long afflicted with the Difease, but only Inflammation in recent Cases.

Prevention.

In the Autumn after hot or long Summers, and in warm Climates, care is to be taken to avoid Cold in those Circumstances in which it is most liable to affect the System; and in Camps, the Vapour from putrid Faces; and if there be great Danger, the Bark may be used, (Vide N° 1.)

A moderate Use of four Fruits in warm Summers, and hot Climates, tends alfo to prevent the Difeafe.

In the Cholera Morbus, if the Vomiting, Purging, and other Symptoms be very fevere, Chicken Broth without Salt, Decoction of Barley, Solution of Gum Cholera Mor-Arabic, or any other mucilaginous Fluid, are to be bus. drank plentifully, to prevent the Inflammation from being increased by the Efforts, or by the Neutral Salts in the Matter fecreted, until the Patient be fufficiently reduced to render the Exhibition of Opium fafe. If they be not in fo great a Degree, a fmall Quantity of Emetic Tartar (gr. 1 ad gr. fs.) or fome other Relaxant, may be given diffolved in Part of the Liquor, and repeated in three or four Hours: Or if the Vomiting be not very troublefome, from 20 to 30 grains of Rhubarb may be taken with Advantage, the Patient drinking fome of the above-mentioned Liquors.

When the Strength is reduced by the Evacuation, and the Primæ Viæ cleared of Feculent Matter by this Treatment, the Vomiting and Purging are to be flopt by Opiates, (and Nos 3, 13.) may be used; but if the Patient fhould be fo much weakened by the Evacuation, and Irritation, before any Affiftance is called in, as to be in Danger of finking, they are to be exhibited immediately. In both Cafes the Opiate is to be repeated in a fmaller Dofe at fix or eight Hours Interval, for two or three Times.

Diarrhæas when un-attended by Sicknefs, Fever, Irritation, or Pain, and when they have not continued Of the Dilong, only require the Primæ Viæ to be cleared by a arhæa. Purgative encreasing the periftaltic Motion, fuch as

(No

Cure of the

(100)

(N° 42.) R Aq; Menth. Vulg. 3ifs Aq; Nuc. Mofch. 3iij Pulv. Rhei — — Эj ad 3fs Syr. e Cort. Aur. 3ij

m ft Hauftus. Capt. ante Meridiem vel Hora Somnia and that the Patient fhould ufe Food of eafy Digeftion, and avoid Exposure to Cold.

If they be attended with any of the above Symptoms, or continue above two or three Days, they are to be treated in the fame Manner as Dyfenteries.

Of the Dy-Sentery. If in a Dyfentery the Pulfe be hard, full, and ftrong, as it often is in cold Climates, in the Spring, and in ftrong Habits, we fhould endeavour firft of all to take off thefe Inflammatory Symptoms by Bleeding, which fometimes requires to be repeated; but where they are not prefent, as they feldom are in the Autumn, in warm Climates, or irritable Habits, this Evacuation is ufelefs and frequently detrimental.

After the Bleeding, where it is proper, or otherwife without performing that Operation, the Primæ Viæ are to be cleared of both the Feculent Matters, and Fluids fecreted into them; thefe as in all other Cafes of increafed Secretion where the Glands are inflamed, being very apt to flimulate and putrefy.

When the Stomach is much affected, an Emetic is to be exhibited, and it ought to be managed in the fame Manner as has been directed in Fevers, as we wifh it here alfo to exert its Relaxing Power, and throw the Circulation on the Skin.

A Purgative is alfo to be given, and we fhould chufe those which act principally by encreasing the Peristaltic Motion

(101)

Motion of the Inteffines, as it is not a greater Secretion which is required, but an Evacuation of the Matters already contained. Although Rhubarb does not purge fo copioufly, yet as it clears the the Primæ Viæ better, it is preferable to moft others. We rather chufe therefore to continue to employ it with the older Phyficians, than give it up as fome late Practitioners have done, not confidering the above Intention, nor the Progrefs of the Difeafe after its Operation, but merely the Copioufnefs of the Evacuation. It may be given as in $(N^{\circ} 42.)$

While the Difeafe continues it is to be repeated frequently for the fame Purpofe, and alfo to prevent any things being retained in the upper Part of the Inteffines, where the Periftaltic Motion is now going on too flowly.

After the Operation of the Purgative, we are to endeavour to throw the Circulation on the exterior Parts of the Body by Relaxants.

(N° 43) R Pulv. Ipecac. gr. ij ad gr. v. vel. R Sacchar. Alb. gr. v. Tartar. Emetic. gr. ¼ ad gr. fs ft. Pulv.
vel. R Aq; Menth: Vulg: 3ifs Pollychreft. Rupell. Эij ad 3i Aq; Nuc. Mofch. 3ij Syr. e Cort. Aur. 3ij m ft Hauft. Capt. Omn. ivta horâ.

The Inteffines are at the fame Time to be defended by mucilaginous Medicines, and the Secretion checked by gentle Aftringents,

(102)

(N° 44) & Gum Arabic. 3ijSolv. in Aq; Hord. 15ijadde Syr. Limon — 3ijBibat pro potu.

(Nº 45) R Aq; Font — fbij Corn. Cerv. Calc. et Prep. 3ij Gum. Arab. — 3ij Coque ut Gum. Solvatur. Bibat Poculum frequenter.

and if the Tenefmus be troublefome, Mucilaginous Glyfters are to be exhibited, as (N° 27.)

It is also of confiderable use to avoid as much as poffible, any Attempt to go to Stool: and if there be Soreness about the Anus, it should be rubbed with Unguent Simplex, or any other expressed Oil that is just fluid in the Heat of the Body.—Or if the other Symptoms are greatly diminished, and this continues, an Opiate may be added to the Mucilage in the Glyster.

Stimulants applied externally to the Belly, have been found ufeful in relieving the Pain.

(N° 46) R Spt. Vin. Rectif. 3viijOl. Menth. — 3iSapon. Venet. 3fs

Solve Ventr. applicentur lintea calida Linimento hocce madefacta ter quaterve indies.

At the fame Time the Patient should be kept in as pure Air as possible, providing that it be always moderately warm, and that he be not exposed at any Time to Cold, especially in those Circumstances in which it is most liable to affect the System.

The

(103)

The Food ought to confift of Preparations of Farinaceous Vegetable Subflances.

If notwithflanding the Treatment already propofed, the Purging fhould go on, fo that there is Danger to be apprehended from the Weaknefs, or Irritation, Affringents, and particularly Opium may be given along with the other Medicines, and from $\frac{1}{3}$ to half a Grain of it, may be taken every eight Hours: but when they are employed at the Beginning, efpecially alone, they flop the Secretion, but leave the Inflammation, and Death enfues either from the Symptoms of Irritation, or now and then from Gangrene and Mortification of the Inteffines.

If the Difeafe ftill continues, and the Symptoms of Irritation are not very violent, the Opium is to be exhibited alone, or Spices are to be joined to it, or other Aftringents may be employed, fuch as,

(N° 47) R Cort. Semaraubæ 3fs Coque in Aq. Font. Hifs ad Hi Colaturæ Capt. 3ij om. trihorio.

> Vel R Extract. Lign. Campeach. 3ij ft Pill. xx capt. iij vel iv fextâ quâque horâ.

Or Aftringents, Spices, and Opium may be given together.

Or Opiates or Aftringents may be added to the Mucilaginous Glyfters. But it is to be obferved that it is the Secretion we wifh to ftop by thefe Aftringents, and and not the Evacuation of the Matters already contained in the Inteffines; for this Reafon the Purgatives ought to be repeated, even during the use of them.

(104)

In recent Cafes we may expect the Cure to fucceed quickly, but in those of longer Continuance, a Perfeverance in the proper Remedies is necessary, especially if the Intestines should be exulcerated, and then indeed the Difease is frequently fatal.

A Dyfentery accompanying a Fever, is alfo very dangerous, as either Difeafe being cured, the other may continue, and as both together may foon weaken and kill; we are to endeavour to take off the Fever, by the Remedies already pointed out at the Beginning of a Violent one, and afterwards to treat the Difeafe as a fimple Dyfentery, being more cautious in employing Aftringents.

After the Purging is flopt, the Patient often becomes coffive, and if he be fuffered to continue in that State for two or three Days, he is apt to relapfe; the Belly is therefore to be opened by bitter Purgatives.

After the Difeafe is cured, the Bark may be employed to reftore the Strength, and it is alfo fometimes of ufe during the Purging when it has continued long, and the ordinary Symptoms of Weaknefs appear.

The

(105)

THE

VENEREAL DISEASE.

LTHOUGH it be not confined to the Mucous **Membrane**, yet as the principal Symptoms at the Beginning depend on Inflammation or Exulceration of this Part of the Body, it is to be treated of here.

It is always propagated by an Infection, which first Caufe, made its Appearance in Europe, in Spain, and was carfrom thence to Naples in 1494, from which it fpread almost instantaneously over France, Germany, Great-Britain, Gc.

The Venereal Matter must be applied in a fluid State; ift either to fome Part of the Body where the Mucus is foft, as it is in the Parts of Generation, (which are generally first infected) or about the Nipples, Lips, Anus, Sc. or 2dly to a Wound or Ulcer; or 3dly, it may pafs from a Mother to a Child, although commonly in this Cafe, it adheres to the Skin, in the Paffage thorough the Vagina.

It almost always occasions a Conversion of the Mucus of the Part, or of the Fluids of the Ulcer, or Wound, into a Matter fimilar to itfelf; and when a fufficient Quantity has been thus produced, it brings on an Inflammation in the Mucous Membrane or Glands, or in the Wound or Ulcer, and it is afterwards fometimes abforbed into the general Syftem of Veffels, but very feldom before; the first Symptoms therefore appear in the Part where the Infection was received.

When it is mixed with the foft Mucus it produces; Gonnorhæs, ift, An Inflammation, and greater Secretion from the

(106)

the Mucous Glands, when it is not often abforbed into the general Syftem, & the Difeafe is called a Gonnorhæa.

Lues Venerea

Courte.

Or 2dly, One, or more little Erifpelatous Inflammations, followed by fmall Watery Puflules, which break, and Ulcers called Chancres are formed, and it is commonly abforbed in two or three Days, as it alfo generally is, when a Wound or Ulcer are at first infected, and fometimes even in a Gonnorhæa, and always when a Child receives it from its Mother, and the Distemper is called the Lues Venerea.

The Urethra and Vagina are for the most Part affected with Gonnorhæa, and the Glans, Prepuce, Labia Pudendi, Perineum, Anus, Nipples, Lips, &c. with Chancres; although either may take Place in any of those Parts.

Moft People are infected by the Venereal Matter mixing with, and being retained in the Mucus of the Urethra or Vagina, or upon the Glans, Prepuce, or Labia Pudendi, from which it cannot be washed by the Urine, on Account of the Infolubility of the Mucus in Water, and the Symptoms do not appear 'till after 24 Hours, nay fometimes not 'till after three Weeks from the Time of receiving the Infection, but most commonly. they arife in four, five, or fix Days.

Gonnorhæa from the Urethra in Men.

Sonnonase

A Gonnorhæa from the Urethra in a Man begins with an Uneafinefs about the Parts of Generation, together with an appearance of a little whitilh Matter, about the Orifice of the Urethra, and a little Swelling, and fometimes Rednefs there, and a flight Pungency upon the Evacuation of Urine. The whitilh Matter foon encreafes in Quantity, the Inflammation about the End of the Urethra becomes more evident, and for the moft

(107)

Part there is now a Tenfion, and Hardnefs thorough the whole of it, a Swelling of the Lacunæ, and a fenfation of Stricture in the Penis, particularly on Erection. The Matter still increases, flows out, and grows thinner, lofes its Adhefivenefs, and is of a yellow, or greenish Colour. There is now always a Rednefs about the End of the Canal, often a Pain from the Diffention of the Urethra during the Evacuation of Urine, and a much feverer one towards the Orifice from its Stimulus, with an Increase of the Redness, just after it is evacuated. The Inflammation prevents the Extension of the Urethra in Erection, fo that the Penis is at that Time curved downwards with great Pain, which is increased if it be raifed towards the Belly, and the Stimulus occasions it often to be erected, efpecially when warm in Bed, and fometimes prevents the Sleep, or awakens the Patient, and now and then produces Involuntary Emiffions of the Semen.

Sometimes the Matter is very thin, or freaked with Hæmorhage. Blood, all the Inflammatory Symptoms are more violent, and the Patient is affected with Strangury. The Prepuce alfo fometimes is inflamed about the End, and cannot be drawn back, which is called Phymofis; or being drawn behind the Glans cannot be returned, called a Paraphymofis, when the Inflammation is increased by the Stricture, and now and then Gangrene and mofis. Mortification are produced; or the whole of it is affected withOEdematousSwelling alfo called Phymofis. In all thefe Cafes Ulcers are apt to arife, efpecially in the two laft, Phymofis.

Thus the Inflammation continues to increase, generally for about a Week or two; but it admits of a Natural Cure, for the Mucus washes off the Venereal Matter faf-0 2 ter

Chordee.

Strangury.

Phymofis

Paraphy-

OEdematous

ter than it is formed, until at last the Infection is totally carried off. While this is taking Place, the Symptoms continue nearly the fame for fome Time; they afterwards begin gradually to decrease, the Erections are not fo frequent, nor with fo much Pain, there is not fo much Inflammation, nor Pain from the Evacuation of Urine, the Matter becomes thicker, whiter, and adhefive, gradually diminishes in Quantity, becomes irregular often towards the laft, pieces of Mucus having a fibrous Appearance being mixed with the Urine; at laft the Running ceafes, and the Inflammatory Symptoms, at the fame Time gradually decreafing, leave the Patient. Or the Infection being carried off, the Secretion continues but in a fmaller Quantity, thicker and whiter, and with much lefs Inflammation for Months or fometimes for Years, for most Part going off at laft; or not being carried off, the Symptoms continue, although commonly with lefs Inflammation than at the Beginning. Or Exulcerations may be produced, the Matter abforbed, and the Lues Venerea brought on, particularly when any fresh Caufe of Inflammation is applied, when the Difeafe continues long, or the infected Mucus is fuffered to remain between the Glans, and Prepuce. Or an Abforption may fometimes, although feldom happen without Exulceration, and be attended with the fame Confequence.

In Women.

A Gonnorhæa from the Vagina and Urethra in Women, begins with a Heat, Itching, and Uneafinefs about the Parts of Generation, followed by a Rednefs about the Orifice of the Urethra extending to the Mouth of the Vagina, a Running fimilar to that already defcribed, with Pain for the most Part upon the Evacuation of Urine, and alfo in fitting when the Parts are pressed upon, and in Walking

(109)

Walking, or upon the Vagina's being diffended. It has otherwife the fame Progrefs and Terminations as in Men, except that the Symptoms are fometimes increafed after Menstruation. But if the Disease affect the Vagina only, the Inflammatory Symptoms are often very triffling, or if they make their Appearance at the Beginning, go off, fo that the Patient is hardly fenfible of any other Inconvenience but the Running.

A Gonnorhæa from any of the External Parts, very feldom happens, when it does, (as from the Glans for Inftance,) it begins with Rednefs and Swelling, the Surface is fometimes covered with a whitifh Cruft. fimilar to Apthæ, and there is afterwards an ouzing of a Matter like that from the Urethra, the Inflammation at first increasing; the Infection however is gradually washed off, and the Progress and Terminations are nearly the fame as before defcribed.

Gonnorhæas may alfo arife in the Eyes, and Noffrils, with Symptoms fimilar to those above-mentioned, except Eyes and Noffor the Part affected.

When a Gonnorhæa continues long, it fometimes produces a Stricture in the Part, particularly in the Urethra thra in Men. in Men, fo as to occafion a Difficulty in the Evacuation of the Urine, often attended with great Pain; the Water flowing out in a fmall Stream, or only by Drops : and now and then it also produces a Degree of Inflammation and a Difposition to Contraction in the Bladder, and the Urethra alfo contracting, the Stoppage is increased; this generally goes off with a Secretion of Mucus from thefe Parts, but it may have the other Progreffes and Terminations of an Inflammation of the Bladder; and often no fuch Affection takes place, or if it does, goes off, and the Stoppage and Pain continues for Years. The

From External Parts.

From the trils. Strictures. In the UreIn the Urethra in Women and Vagina & ths Perpuce. A fimilar Stricture takes Place in the Ursthra in Women, but not near fo frequently, and also in the End of the Prepuce, preventing it from being drawn back after all the other Symptoms are gone off, and in the Vagina preventing its Differition.

Phlegmonous Inflammation. The neighbouring Parts particularly the Tefficles, Glands in the Groin, and fometimes the Perineum are alfo fubject to phlegmonous Inflammation from flight Stimuli, fuch as Motion in Exercife, Preffure, &c.

Inflammation in the Tefficles.

The Tefficle inflames with the common Symptoms of Swelling, Pain, Heat, Hardnefs, Rednefs, &c. the Running for the most Part at the fame Time diminishing or ceasing.

The Progrefs to Suppuration, Gangrene and Mortification and Scirrhus, is alfo the fame as in other Inflammations of thefe Glands; and it admits alfo of a natural Cure, for the Running begins to increase again, the Pain, Swelling, &c. decrease, and at length leave the Patient, the Swelling and Hardness often continuing for a confiderable Time.

Bubos with_ out Infection. The Lymphatic Glands in the Groin likewife fometimes inflame, even when there is no Abforption of the Matter, but this Cafe can only be diffinguished from those where there is by the Event, which is not to be waited for.

Inflammation of the Perineum. The Inflammation of the Perineum is attended with the common Symptoms of that Difeafe.

Diftinctions.

The Venereal Gonnorhæa thould be diftinguished from that in which there is no Infection; from the Fluor Albus, and other increased Secretions from the different Parts, subject to this Diffemper; from Involuntary Emissions of the Somen; Ulcers in the Urinary Passages; and increased

(111)

creafed Secretions from their Mucous Membrane, from a Stone or any other Caufe.

When the Lues Venerea begins with a Chancre, there is at first a little Erifipelatous Inflammation, with itching on the Glans, Prepuce, Labia Pudendi, Ge. followed by one, or more fmall Puffules, filled with a tranfparent Fluid, becoming fometimes white; thefe break, and a fmall but fpreading Ulcer is formed, fometimes painful, generally inflamed, fore, and unequal at the Bottom, often with hard, protuberant, afh-coloured Edges, covered with whitifh Sloughs, and of difficult Cure.

They should be diffinguished from little Excoriations or Ulcers produced, either by rubbing the Parts; or by the Matter which fometimes is accumulated about them, when they are not kept clean ; or by the Fluor Albus, on the Labia Pudendi, or Thighs in Women, or on the Glans and, Prepuce in Men: thefe when they arife from Coition appear immediately, and are of eafy Cure, or go off of themfelves in a few Days.

If the Difeafe begins with an Ulcer in the Urethra without Gonnorhæa, which it very feldom does, there is a Urethra. Sorenefs, and Difpofition to the Evacuation of Urine, with Pain on its being evacuated, and an ouzing of a fmall Quantity of a thin, watery Fluid; and fometimes a Gonnorhæa follows.

If an Ulcer or Wound are infected, they inflame, and fpread with Sorenefs, or Pain, and Inequality of their sers. urface; they are often covered with whitish Sloughs and have afh-coloured Edges,

Sympioms of the Lues Venerea.

Chancres.

Ulcer in the

Venereal UL-

Firft Symptoms in Children. If Children receive the Infection from their Mothers, they now and then are born with Symptoms of the Difeafe, as Inflammations of the Skin, Gonnorhæa, &c. but for the moft Part there is no Appearance for feveral Days, but, in about a Week, Eruptions with brownifh Scabs degenerating into Ulcers, arife about the An-

Scabs degenerating into Ulcers, arife about the Angles of the Mouth or other Parts of the Head, or over the whole Body.

Abforption in Gonnorhaz. It is not certainly known if there be at any Time an Abforption in a Gonnorhæa without Exulceration, but fometimes in long continued ones the infectious Matter gets into the Syftem, perhaps from an Ulcer in the Urethra.

Inflammation of the Lymphatics. From the Ulcers, wherever they are, the Matter is abforbed by the Lymphatics, and fometimes, as it paffes along, inflames them, and there is a Rednefs, Hardnefs, and Sorenefs in their Courfe to the first Lymphatic Glands; often however there is no Appearance of this kind.

Bubo.

Whether there be or not, an Inflammation of the first Glands they pass thorough, called a Bubo, is often produced, which as the Parts of Generation are most commonly first infected, is generally in the Groin, it begins with Soreness to the Touch, Hardness and Swelling of the Glands, these Symptoms increase and are attended with Pain, especially on moving, Redness of the Skin, and the others common to Inflammation. It fometimes terminates quickly in Suppuration, fometimes like other Inflammations of Glands it fuppurates very flowly, fometimes terminates in fchirrosity, very feldom in Gangrene; if it fuppurates, when the Abcess, formed from it breaks, or is opened, the Ulcer is generally - rally Venereal, I believe always fo. The Ulcer is fometimes dangerous from its Difpofition to fpread and form Sinuffes, and its Vicinity to large Veffels, and it is generally cured with Difficulty.

It fhould be diffinguished from other Inflammations of thefe Glands brought on by external Stimuli, as rubbing, Ec. or by flimulating Fluids, as Pus, cancerous Matter, Ec. paffing thorough them; and from an Abcefs following Inflammations of the cellular Membrane below the Pfoas Muscle, and from Ruptures.

Whether a Bubo arifes or not, the Matter continues its Courfe thorough the Lymphatics into the Blood Veffels. the Matter in

When the Venereal Matter gets into the Syftem, it generally produces Inflammations and Ulcers in fome Part of the Body, most commonly in the Mucous Membrane, or Skin; but fometimes it may continue for many Years before it has any Effect; now and then it never makes its Appearance; and for most Part it has been abforbed for fometime before any Symptoms take Place.

If it be fecreted in the Glands of the Mouth or Throat, it inflames the Membrane and occafions Ulcers, attended with the common Symptoms of Exulceration in thefe Parts, fuch as Hoarfenefs, Pain and Difficulty in fwallow_ ing, &c. and fimilar to the other Venereal ones already defcribed; thefe Ulcers fpreading the Bones become carious, and Openings are made from the Mouth to the Nofe, the Palate being deftroyed; and the Nofe itfelf finks, its Cartilages and Bones alfo being eat away.

If fecreted on the Skin it produces reddifh, or purplifh Spots; or an Eruption covered with brownifh Scabs, often degenerating into Venereal Ulcers, which, if they P happen

Symptoms of the System.

(114)

happen in the Palms of the Hands, Soles of the Feet, or about the Anus, have often the Appearance of Fiffures in the Scarf Skin, ouzing out a thin Matter with great Sorenefs and Pain.

If fecreted in the Eyes, Inflammation and Exulceration arife there, with Lofs of Sight; if in the Ears the like Inflammatory Symptoms are brought on, (although feldomer,) with Deafnefs and *Caries* of their Bones.

Although the Parts of Generation were not the first infected, the Distemper fometimes appears there and about the Anus, but not always.

Ulcers of the Lungs are now and then the Confequence, and Pulmonary Confumption. Sometimes too there is fwelling of the Lymphatics and other Glands.

Or it affects the *Perioftium* and Bones, and brings on Pains in them; efpecially on the Body's being heated, and during the natural Evening Paroxyfm of Fever which they render more evident, going off with it in the Morning with Sweat; the *Perioftium* fwells, and becomes hard with an Appearance of fwelling of the Bones, and fometimes they do fwell, at others become foft or carious.

Sometimes before the Matter gets into the System, or at any other Time of the Difease, Excressences arise on the Glans, Prepuce, Labia Pudendi, Anus, &c. either where there have been Ulcers, or without any previous Exulceration; they are of various Figures, are called Warts or by other Names, and are generally red and soft, sometimes hard and callous, feldom painful.

Various other anomalous Symptoms are also brought on by the Infection or Irritation; but these if the Distemper is

(115)

is not cured are at leaff for the moft Part prevented, from the general Knowledge of the Ufe of Mercury, and are not fo often feen now, although the Infection has loft none of its Virulence, as has been fuppofed.

There are Habits which will bear up against the Difeafe for many Years; whilst, in others, the Appetite is lost, the Pulfe rendered more frequent, the Evening Paroxysm of Fever increased and continued thorough the Day Time, Dropfical Swellings of the Legs, swelling of the *Abdomen*, and other Symptoms of Weakness and Irritation come on, and the Patient finks.

Venereal Ulcers, Eruptions, Pains, &c. fhould be diffinguished from those arising from other Causes.

When the Infection is communicated by the Matter's being mixed with the Mucus of the Urelhra, Vagina, Glans, Prepuce, &c. if no Running, Ulcer, or Puffule have as yet appeared, it may washed off, and the Difease for the most Part prevented by

(N° 48) R Cauffic Com. Fort. Pharm. Lond. 3j Solv. in Aquæ Fountanæ — fbj et cola per Chartam.

Some of the above Soluion is to be mixed by a little at a Time, with a Cup full of Water, till it be firong enough to wafh the *Mucus* from the Mouth without giving much Pain. Fill a Syringe with this Liquor, and inject it into the *Urethra*, or *Vagina*, retaining it there for about a Minute; then add to the Remainder of the Liquor a Tea-fpoonful of the Solution, and wafh the *Glans*, Prepuce, *Labia Pudendi*, &c. laftly inject, and wafh with a little pure Water Milk warm.

The

Prevention.

Distinctions

(116)

Cure of the Gonnorhæa.

The Gonnorhæa may be cured 1ft, By affifting the natural Cure. 2dly, By Injections.

3dly, By Mercury alone: or the Success of the two first Methods may be ensured by it.

The Natural Cure is affifted,

ift, By diminithing the Inflammation by Bleeding if the Patient be Strong or Plethoric, the Pulfe Full and Hard, and the Chordee Frequent and Painfull; from 3xij to 3xx of Blood may be taken away, but the Operation feldom requires to be repeated, and the Frequency, and Pain of Erection are the only Symptoms we can hope to relieve by it, and that too in the Cafes now deferibed, for (the Inflammation being kept up by the Stimulus of the Matter and the Urine) it either has no Effect in others, or is detrimental, efpecially if the Habit be irritable.

2dly, By drinking plentifully of Mucilaginous Watery Fluids Acidulated (as N° 32 without the Sem. Petrofel.), to dilute the Urine and prevent its Neutral Salts from fimulating, and increasing the Inflammation.

3dly, By the Application of Emolient Fomentations, and Poultices.

4thly, By injecting Oily or Mucilaginous Fluids into the Urethra or Vagina, and by rubbing them on the Glans Prepuce, Labia Pudendi, &c. as

(N° 49.) R Sev. Ovil. curat : 3i. Ol. Olivar. — 3ii. m Liquefcant leni calore Tempore Ufus.

F L

5hlty,

5thly, By increafing the Secretion a little by fuch gentle Purgatives, as procure only two or three Evacuations a Day. Severe Purging often augments all the Inflammatory Symptoms, brings on Strangury ^and Exulcerations, gives occafion to Inflammation of of the Tefficles, and other Neighbouring Parts; or it ftops the Running before the Infection is wafhed off, and the Gonnorhæa either returns in a few Days, or Exulcerations take Place. Long continued Purging is apt to weaken the Stomach and Inteffines, to hurt the Digeftion, to produce obftinate Gleets, and leave Hypochondriacal Symptoms, particularly in Irritable or Melancholick Habits.

6thly, By avoiding Exercife, Salt, Spices, and too much Animal Food, efpecially at the Beginning, when there is a great deal of Inflammation.

If with the above Treatment the Inflammatory Symptoms diminith, the Running becomes thicker, and at the End of four or five Weeks leaves the Patient, there is then no Reafon to fulpect the Syftem to be infected.

If any of the Preparations of Mercury defcribed below, be used with the above Remedies, their Effects are rendered more certain.

2dly, The Substances to be used in the Cure by Injections are

(N° 50) a. R Aq. Font. Zviij.

Gum. Arab. 3vj.

Calomel 6^{ties} fublimati (Mercurii crudi **3**i. fingulis Libris fingulis Vicibus additâ) et in pulverem tenuissimum triti. 3 fs. m.

(b) R

(118)

(b) R Aq. Rofar. Zi. Merc. Subl. corros. gr. j. folve

> R Solution. præscript, gtt xxx ad Lx. Aq. Rosar. Zi. m

If this Injection be employed we are to begin with it weak, and gradually increafe its Strength, fo that the Patient fuffer but little Pain after it is evacuated: a Piece of foft Linen Rag is to be kept between the Glans and Prepuce during its Ufe.

- (c) R Aq. Rofar. Zij. Sacchar. Saturn. gr. x ad xx. folve
- (d) R Ol. Olivar. 3ij. Mercurii, Saliva vel Mucilagine Gum. Arab. extinct. 3i ad 3iij. m

Preparations of Copper, Zinc, and Vegetable Aftringents have also been employed by fome People.

A little of one of these Injections is to be thrown into the Urethra or Vagina at first four Times, afterwards three Times, and at last once in 24 Hours, and kept there for about a Minute.

The fooner they are used the better.

No previous Treatment is required except Bleeding: (vide the firft Method, in the Natural Cure.)

We should always exhibit Mercury at the fame time, in the Manner recommended in the Lues Venerea.

If a great Senfe of Stricture towards the Bulbous Part of of the Urethra flould be felt, or if the Running flould not flop in a Fortnight, notwithftanding the Ufe of the Injection, it should be left off; but the Mercury should be continued, the Inflammatory Symptoms being kept off by the Bark : If the Gonnorhæa does not ftop in a Fortnight more, Recourfe must be had to the Injection The Mercury is to be exhibited for a Week or two longer if the Symptoms do not go off in that Time. Bark may alfo be given at the Beginning, to the Quantity of an Ounce in 24 Hours for a Day or two, & afterwards to zij; having first bled the Patient, if his Habit be Plethoric, or Pulfe hard. Should the Difease be carried off by the Injection in a few Days, it is neverthelefs fafer to perfift in the Ufe of the Mercury for a Month, but it is not always abfolutely neaeffary.

Omitting the Injection once or twice will often make it fail of curing when it would have otherwife produced that Effect.

The ift, 2d, and 4th Remedies recommended in the Natural Method are to be used in this.

This Method for the moft Part cures fooner, with much lefs Pain, and with as great Safety, provided Mercury be ufed, as the former; and there is lefs Danger of Inflammation of the Tefficles, or the Glands of the Groin; or of Chancres or Strictures.

3dly, The Cure by Mercury is performed,

1st, By Bleeding, if the Patient be Plethoric.

2dly, By the 1st, 2d, 3d, 4th and 6th Remedies recommended in the Natural Method of Cure.

3dly, If at the Beginning, the Inflammation be trou-

blefome an Ounce of Bark is to be given every 24 Hours, till it abates, and aftewards three Drachms.

4thly, Mercury is to be employed internally as in the Lues Venerea.

Cure of the Lues Venerea

When there is any Ulcer, or any Symptom of the Matter's having been abforbed, the Patient cannot be cured with Safety and Certainty, unlefs Mercury be exhibited.

The Preparations of Mercury to be used are,

(N° 51.) R Terebinth. Venet. 3ij

Mercur. Crud. - 3j

Terantur fimul quamdiu Guttula vel minima apparit, dein adde Unguent. fimpl. 3xiv.

Turpentine is here prefcribed, becaufe we are more certain of extinguishing the Mercury with it, than with any other Substance; although it is fometimes apt to produce little Pimples on the Skin, which are however of no material Confequence.

From one Drachm to three of this Ointment is to be rubbed thoroughly into the Thighs, Arms, or Legs, every other Night, begining, if a Salivation is not intended, with 3j the first Time; and, if the Mouth is not at all affected, encreasing it to 3j Jij the Second; and gradually afterwards by gr. x at a Time as long as the Mouth will bear it. If it be, we begin with 3ij every other Night, and increase or diminish the Dose, fo that the Patient shall fpit from thij to this every 24 Hours.

(N^o 52.) R Mercur. crud. — 3j

Tercbinth. Venet. zifs

Terantur fimul quamdiu guttulla Mercurii aparit addendo Guttas aliquot Olei Terebinthini fi opus fit dein cum Q. S. Pulv. Glycir. Fiant Pillulæ Lxxx Capt. j vel ij mane et Vefp eri. (9)

(121)

(b) R Merc. calcinat. gr. j ad iij Extract. Gentian. Q. S.

ft. Pill. capt. Vefp.

If either of the above Preparations, should purge the Patient

(N° 53) R Opii gr. 1 ad gr. j

Tart emet. g_r . $\frac{1}{3}$ ad gr. fs m ft. Pillula capt. mane et Vefper.

The Compounds of Mercury and Acids are much more uncertain Remedies than the above, and ought never to be used, unless the Patient be in a Situation where he runs the greatest Rifque of catching Cold: when they are given, it may be in the following Form,

> R Spt. Vin. dilut. (Angl. Proof dicti) 3fs Merc. Sub. Coros. — — gr. fs. ad gr. j folve. Capt. mane et Vesper.

Whatever Preparation we employ, we fhould give it in fuch Manner, and in fuch a Dofe, as to produce Hard, nefs, Fulnefs, and moderate Frequency of the Pulfe, with as little fenfible Evacuation as polfible; for the Mercury cures fooner, and with greater Certainty, when the Strength is but little, than when it is much reduced by it. Therefore, unlefs the Cate be very urgent, we are to begin with fmall Dofes at firft, and afterwards gradually to increafe them; giving Opium and Antimony, and now and then a fmall Dofe of Rhubarb, if the Inteffines are affected; and omitting the Medicine for two or three Days, if there be Symptoms of Salivation, till thefe be gone off.

The Symptoms of approaching Salivation, are a difagreeable Tafte in the Mouth, and Sorenefs of the Gums or Salivary Glands.

The Ointment fhould always be employed in bad Cafes, but in flighter ones, in Gonorrhæas, and where there is great Rifque of catching Cold, the Mercury may be ufed Internally. Q It It is never neceffary to fallivate a Patient, unlefs he be fo irritable that the fmalleft Dofe of Mercury immeditely affects his Mouth, or unlefs the Difeafe be proceeding fo faft, that it would be Hazardous to wait till it was checked by the Remedy given in fuch a Manner as to avoid Salivation; or excepting when we cannot truft to his ufing it regularly. On the contrary, Salivation renders the Effects of the Medicine uncertain.

The Precautions neceffary to avoid Salivation, are, 1ft, exhibiting the Mercury as has just been defcribed; zdly, taking Care not to flimulate the Salivary Glands, either by rubbing the Skin over them, and keeping it too warm with Flannel, or by any Stimulus in the Mouth; 3dly, Avoiding fudden Exposure to Cold. It is to be observed, that the Patient is rendered irritable by the Use of the Mercury; hence Cold applied in the Circum. flances in which it is apt to produce Difeafes, (Vide the Catarrh,) brings on Salivation, Dyfentery, or Rheumatifm; and the Stimulus of the Mercury being directed to the Salivary Glands, or Inteffines, produces in them greater Inflammation, than that which takes place in a Salivation from Mercury alone, or in a Dyfentery from Cold alone. It is by no Means neceffary however to confine him to a clofe, warm Room, except in a Salivation ; it is fufficient if he wear Flannel or Cotton next his Skin, and carefully avoid a moift Atmosphere, or Rain, and the Evening Air; on the contrary the Air of a close Room often, nay fometimes that of a large Town, prevents the healing of Venereal Ulcers, or even the Destruction of the infectious Matter by the Mercury, and the Patient cannot be cured, unlefs he be removed into a freer Air, or into the Country.

If notwithstanding these Precautions, a Salivation should should come on, we know of no Remedy which will remove it with any Degree of Certainty, although Sulphur, Camphire, and Purgatives, have been recommended for this Purpofe; if therefore the Cafe be urgent, the beft way is to let it go on, ufing the Mercurial Ointment as before defcribed; and we fhould confine the Patient to a Room where there are no Streams of Air, but which is not too warm; fhould clothe him with Flannel, and give him Food of eafy Digeftion and good Nourithment. If the Symptoms are increasing flowly, the Mercury fhould be omitted till the Salivation goes off, and afterwards recurred to.

The Mercury whether we falivate or not, should be continued four or five Weeks, even if the Symptoms should leave the Patient before that Time.

It should be continued till all the Symptoms are gone off, except

Ift, When a Gonorrhæa remains with little Inflammation (Vide the Gonorrhæa benigna)

2dly, When the Patient is much reduced by it, and there are Ulcers which do not put on the Appearance of Healing. In this Cafe it is to be left off, and the Patient ftrengthened, (Vide the Hyfterical Difeafe) and the common Means of curing Ulcers not Venereal, are to be employed; if thefe do not fucceed, he is to return to the Ufe of the Mercury.

3dly, When Ulcers covered with fortid Sloughs appear, and fpread exceedingly faft. In this Cafe Bark, and the other Remedies for Gangrene and Mortification, are to be made use of.

4thly, When only Rheumatic Pains remain, these often arising from the Mercury itself, are to be cured by Preparations of Antimony, and Sarsaperilla. If If by the imprudent Ufe of Mercury, or Expofure to Cold, a Salivation with great Inflammation of the Salivary Glands and Mouth is brought on, it is to be omitted, and the common Antiphlogiflic Remedies ufed, till these Symptoms are carried off. If Dysentery should be brought on, we are to take away from 3xij to 3xvj of Blood, afterwards to give a Dose of Rhubarb; lastly to shop the Purging by (N° 53) leaving off the Mercury for a Day or two.

If Rheumatism is produced, it is to be treated in the Manner directed in that Difease.

If the Mercury should occasion General Inflammation to a Degree which may be dangerous, 3xij ad 3xvj of Blood are to be taken away.

If there be Venereal Ulcers of any kind, Bark may be given with Advantage along with the Mercury, to the Quantity of 3 fs every 24 Hours; but we are to bleed first if the Patient be of an Inflammatory Habit, or Plethoric. The fame Medicine may also be used in all Cafes where the Patient's Strength is reduced by the Mercury.

If there be Eruptions, or Pains in the Bones, Decoctions of Woods containing refinous Subfances, and Relaxants are of coufiderable Ufe.

(Nº 53) R Rafur. Lig. Guaiac. Ziij

Coque in Aq. Font. Hiv ad Hi. Colaturæ adde Tart. Emet gr $\frac{2}{3}$ ad gr. 1fs divid. in Partes iij. Capt. unam mane, alteram post pranffum, tertiam H. S. quotidie.

Guaiacum, Sarfaperilla, and fome other Remedies, have

have fometimes cured the Difeafe without Mercury, particularly in warm Climates, but they are never to be truffed to alone.

If the Patient be not falivated by the Mercury, he may use fuch animal Food as is of easy Digestion, but he is to avoid Salt, Spices, and Wine.

The Treatment of particular Symptoms.

If there be an OEdematous Phymofis, from 3j to 3ifs of Bark is to be given every 24 Hours, until the Inflammation abate, and afterwards 3fs; Mercury likewife is always to be exhibited in this Cafe. Phymofis from Stricture alone, frequently goes off with the other Symptoms. In every kind of Phymofis Milk and Water is to be injected between the Glans and the Prepuce, three or four times a Day: and, if a very painful Ulcer fhould be formed there, and fhould not give way to Bark and Mercury, the Prepuce thould be flit open, or if that be not fufficient, entirely cut off.

In the Paraphymofis the Prepuce should be cut, emolient Fomentations and Poultices applied, and the other Antiphlogistic Remedies employed: and Mercury is always to be exhibited.

Inflammation of the Tefficle is to be treated as any other external Phlegmonous Inflammation; the Tefficle is to be fufpended by proper Bandages; Fomentations and Poultices (N° 33) are to be applied: Purgatives as Evacuants are ufeful if they re-produce the Gonorrhæa; and ftrong Vomits, where the Conflitution will bear them, fometimes, carry off the Inflammatory Symptoms immediately,

(126)

(N° 54) R Turpeth. Mineral. gr. iij ad v Pulv. Glycyr. gr. xx m Vel. Tart. Emet. gr. iij ad v ft. Pulv. Emet. Capt. Vefper. Superbibend. Aq. Calid.

When the Inflammatory Symptoms are gone off, Mercury fhould always be ufed, and, if a Hardnefs remain, the Poultices are to be continued, and the Skin of the Scrotum rubbed with Volatile Liniment two or three Times a Day; and no other Means are to be ufed to ftop the Running.

If a Stricture should remain in the Urethra, and produce Inflammatory Symptoms, these are first to be taken off by the common Antiplogistic Remedies; after they are taken off, or where they are not present, the Stricture is to be removed by Bougies; and if the Infection has not been destroyed, Mercury is to be used. If after all these other Symptoms are gone off, the End of the Prepuce remain for several Weeks so contracted as to prevent Coition, it is to be cut open.

If Recent Chancres be the Symptoms of the Lues Venerea, they may often be cured by cutting off the Surface, or deftroying it by Cauftics, but the Mercury should neverthelefs be continued for a Month. The fame External Applications are to be used to Venereal Ulcers, as to others of difficult Cure.

A Bubo, if it be juft beginning, may fometimes be prevented from Suppurating; [1ft, By Bleeding when the Habit is Plethoric or Inflammatory. 2dly, By immediately rubbing as much Mercurial Ointment on the Patients Thighs as he can bear without Salivation; 3dly, By the Application of Fomentations and Poultices. $(N^{\circ} 33)$ 4thly, 4thly, By the Application of Mercurial Plaisters. 5thly, by Sacharum Saturni according to fome Practitioners; but I am always afraid of any Salt of Lead when it lies long upon a Part.

If the Bubo be already large, with a good deal of Inflammation, it is better to promote its Suppuration by the Application of Poultices of Bread and Milk; and fome Practitioners fuppofing that it prevents the Matters paffing into the Syflem, have thought, that it is better to do this always, but I think, as the Infection is now to be deftroyed by Mercury, that it is better to prevent a Patient from fuffering unneceffary Pain. When the Suppuration is compleated the Skin covering the Ab. cefs, is to be altogether taken off either by the Knife or Cauffic, and the Ulcer is to be treated as other Venereal ones.

If there be Excreffences any where, the Infection is first to be got rid of by a long Course of Mercury, and, towards the End, they are to be cut off, and the Part below destroyed by Caustics, as far as it is of the Texture of the Excreffence, and when the Sloughs have separated, the Ulcer is to be treated as a common one.

Eruptions, and Pains in the Bones which cannot be cured by Mercury, Antimony, Sarfaperilla, or Guaiacum, fometimes give way to the warm Bath.

GON-

(128)

THE

GONORRHÆA, BENIGNA, OF GLEET,

I is an increased Secretion from the Mucous Glands of the Urethra without Infection.

It may remain after the Venereal Matter has been deftroyed or washed off in a Venereal Gonorrhæa, or it may arife from general Weakness, fevere Purging, Exercise, frequent Coition, Cold, and Intoxication with Wine, and especially in those who have had long and frequent Gonorrhæas.

When it remains after the Infection has been carried off in a Venereal Gonorrhæa, the Running is commonly thicker, whiter, often adhefive, and incapable of communicating the Infection, the Inflammatory Symptoms are greatly diminifhed, but they do not go off entirely. When it takes place from any other Caufe, it begins with a Running nearly fimilar to that in a Venereal Gonorrhæa, but generally lefs in Quantity, and is not attended with fo much Inflammation, and is never Infectious. In both Cafes the Inflammatory Symptoms may, by Expofure to any of the Caufes, be increafed to as great a Degree as when there is Infection, but they go off of themfelves in a few Days, and fometimes the Running with them.

The Running fometimes ceafes of itfelf, in a Week or two, fometimes it continues for Years without any detriment to the Patient, and now and then we meet with a Cafe where it weakens him, brings on Involuntary Emiffions of the Semen, and at laft kills.

If it arofe from a Venereal Gonorrhæa, and Mercury has not been used at all, or not in a fufficient Quantity, or if there be a Sufpicion of Infection, it is beft to begin by enfuring the Defiruction of the Venereal Matter, by a Mercurial Courfe.

It is to be flopped in weak Habits by the Internal afe of Strengthening and Aftringent Remedies.

(N° 55) R Cort. Peruv. 3ij Nuc. Gall. 3ij Caryoph. Arom. 3fs

Infunde in Vin. rubr. Lufit. Hij per Horas xlviii cola: dein Infund. in Aq. Fonttbj per Horam et cola. Colaturas mifce, et capt Æger Coch. iv ter quarterve indies.

The other Methods of Strengthning the Syftem may alfo be used (vid. the Hysterical Difease); but it is to be observed that the Cold Bath sometimes increases the Running.

Refinous Affringents as Balfamum Copaibæ, exhibited three or four times a Day, fometimes fuceed, but Care fhould be taken to avoid exciting General Inflammation by them in Inflammatory Habits.

The Injections recommeded in the Venereal Gonorrhæa continued for two or three Weeks, fometimes put a flop to the Difeafe.

Or Mercurial Ointment may be rubbed externally along the Courfe of the Urethra two or three times a Day.

By one or other of these Methods we can for the most Part Cure this Distemper; but it will continue fometimes notwithstanding our best Endeavours, and perhaps go off of itself at last.

FINIS.

ERRATA.

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Tell to the dispersion of the first

(No to) R Cort Prairie 3

Low Date of Course

PAGE 3 L. 30, Strength is here, and in like Cafes, put for firong Action of the Heart and Arteries.
P. 16, N° 2, after Hauft add Capt. vjta vel ivta quaq. horâ. P. 19, L. 4, r. thorough-out. P. 24, L. 20, after Period r. and then returned to for 24 Hours. P. 34, I. 16, put'(b) beforeFlores. P. 38, L. 26, r. Inflammatory.
I. 43, L. ult. after and, r. is. P. 44, L. 28, for sr. as.
P. 46, L. 25, for 3ij ad vj, r. 3j ad 3ij. P. 50, L. 2
after are, r. only. P. 64, L. 4, after of, r. the. P. 72, L. 16, for Os Pubus, r. Offa Pubis. P. 85, L. 16, for is to, r. fhould. P. 93, L. 8, for is to, r. fhould.

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