A dissertation upon the sugar of milk; in which is shwwn its great efficacy in consumptions, hectic fevers, the scurvy, vapours or hysterics ... / by J. L Dyvernois.

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DISSERTATION

UPON THE

SUGAR OF MILKS

Price (SIX-PENCE.)

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DIESERTATION

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DISSERTATION

UPON THE

SUGAR of MILK;

In which is fhewn,

Its great Efficacy in Confumptions, hectic Fevers, the Scurvy, Vapours or Hyfterics, and hypocondriacal Complaints, the Afthma and Gout : That it is likewife proper for every one, who hath an infirm State of Health, and a tender Conftitution, and excellent for Perfons advanced in Years.

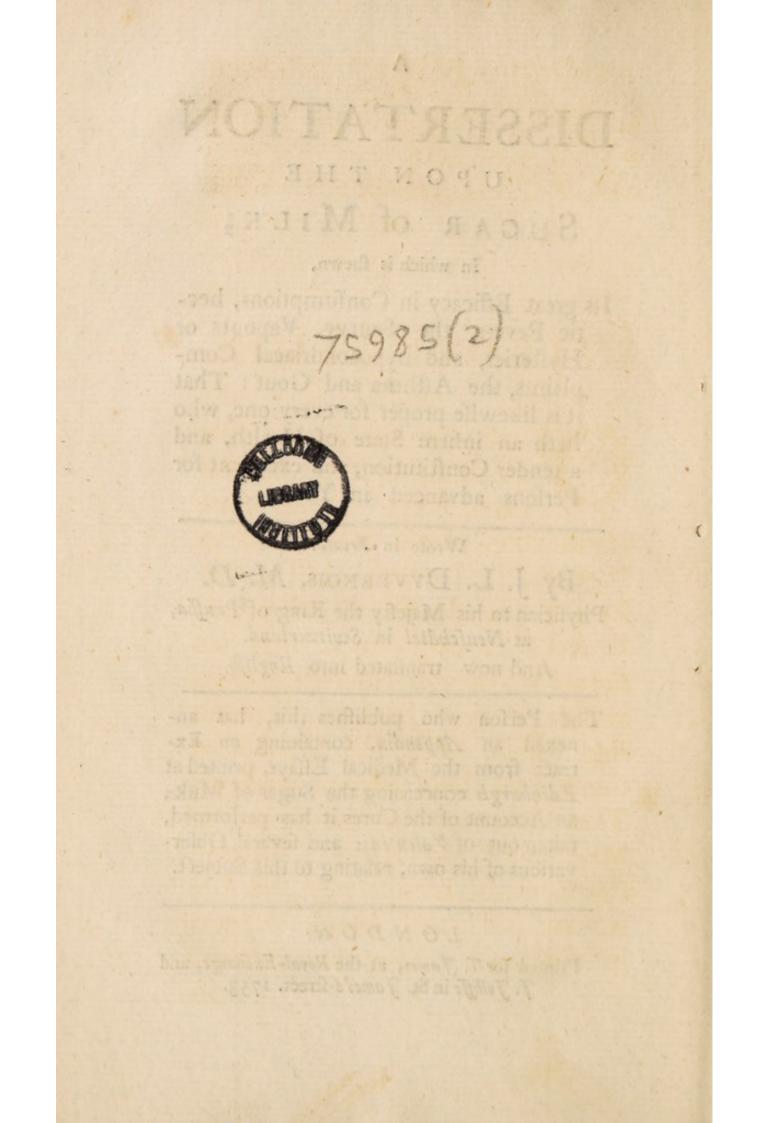
Wrote in French.

By J. L. DYVERNOIS, M. D. Phyfician to his Majefty the King of Prussia, at Neufchâtel in Switzerland. And now translated into English.

The Perfon who publishes this, has annexed an Appendix, containing an Extract from the Medical Effays, printed at Edinburgb concerning the Sugar of Milk; an Account of the Cures it has performed, taken out of Valentini; and feveral Observations of his own, relating to this Subject.

LONDON:

Printed for T. James, at the Royal-Exchange, and J. Jolliffe in St. James's-street. 1753.





THE

INTRODUCTION.

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F all the Discoveries that are made in Arts and Sciences, there is none more useful than those found out in Phyfick, and which aim at preferving the Health of Mankind. It is concerning them that we fhould make our chief Enquiries; and it is our Duty to acquaint the Public with the Refult of them, if we think them of Moment. The Discovery of the Sugar of Milk is of this Kind. Though this Remedy is not new, its Use is as yet not much known in England. This has induced me

me to publish the following Differtation; which I hope will be acceptable, as it is ve. ry probable that it may answer the End for which it is defigned, viz. to be very useful to those whofe Complaints are enumerated in the Title Page. The Success the Sugar of Milk has had Abroad in various Cafes, confirmed me in this Opinion. And fince that made in Switzerland, has the Preference by far. above any other, it will not be improper to affign the Reasons for it. That Country is known to produce Herbs out of which feveral Remedies are made, that have obtained a high Reputation in most Parts of the World; fuch are the vulnerary Herbs, commonly called Swiss Tea, and an Effence made of it; fo excellent in many Complaints, as in the Rheumatism, Phthisick, Rheums, Coughs,

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Coughs, extravalated Blood, Bruifes and Falls, Sc. Sc. Arquebulade Water, which was first made in that Country is well known here; also an Extract of Scurvy Grafs and that of Wormwood, which are fent into foreign Countries. On the fame Account the Cheefe made there is in great Vogue.

It is therefore natural to conclude, that a Remedy made out of the Milk of Cows which feed in fuch Pastures, must have several of the Qualities attributed to the Plants. Great Care is taken to make this Sugar in the Spring, when Plants are in Flower, and to take the Milk of the most healthy Cows; also to chuse the best Mountains; for as Dr. Cheyne very well observes in his Method of Cure, in Difeases of Body and Mind. " Cows " feeding in a pure Air and " high

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⁴⁴ high Places, on the moft ten⁴⁵ der, light and aromatic Plants,
⁴⁴ muft communicate a Spirit,
⁴⁵ Balfam, and Sweetnefs to the
⁴⁶ Whey, and confequently to
⁴⁶ those who use it freely and
⁴⁶ plentifully.⁴⁷

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DISSERTATION

UPON THE

SUGAR of MILK.

Norder to be acquainted with the Nature of the Sugar of Milk, and its Properties, the Nature of Milk must first be known. I shall therefore fpeak a few Words concerning it. Those that have a Mind to be thoroughly infructed upon this Subject, may read the three excellent Differtations, which the incomparable Frederick Hoffman, first Profeffor in Phyfick at Hall in Saxony, has given us. The one upon Affes Milk, the other upon Whey, and the third upon the Excellency of a Medicine which refults from a Mixture of Milk with Mineral Waters. He has handled this Subject with fo much Order and Exactnefs, that we cannot now talk pertinently of the Sugar of Milk, without borrowing fome Ideas from this Author.

I may here then make use of such of them (without any blame) as are fit for my Purpose; and I shall even, as much as possible, follow the Plan that this great Man has drawn for us.

Milk is composed of three principal Substances, which differ as to their Nature and Virtues among themfelves. Gream is the foftest Substance; it is in a lefs Quantity than the other two. The Butter which is made of it, is inflameable by its Nature, as all other Oils and fulphureous Bodies are. The Property of Cream is to foften, to mollify, to relax, and it is befides very nourishing; it is a Specifick against acrid, corrofive Poifons. The Cheefy Part is the coarfest, the heaviest, and most fixed; it thickens the Blood, and fo by its Nature tends to caufe Obstructions in the small Veffels, and to render the Body coffive. It is from its Vifcofity, and the Aftringency it leaves in the Body, that this Part of the Milk is for many Perfons lefs ufeful; and indeed it may be faid to be the only Quality that's hurtful. The ferous Part divided from the others, is very well known by the Name of Whey. It is this that carries along with it, that mild Salt or Sugar, of which I shall speak, and from which it (the Sugar of Milk) borrows its chief Qualities; and it is also the moft

most confiderable, in regard to its Quan-tity and Virtues. Nothing more proper to humidate or moisten the Body, to dilute, to cool and fweeten a thick, acrid, and black Blood than this Whey, either by itfelf, or quickned by other proper Medicines. It is very useful for opening Obstructions, and quieting the extraordinary Motions and Spafms, that fuch Blood produces, and it is for these Reafons fo proper in the Scurvy, in Hypocondriack Affections, Melancholy, the Gout, and inveterate Itch; especially in brifk, dry and bilious Conftitutions. It keeps the Body open, and works by Urine, and there is never the least bad Effect to be feared from the use of it; efpecially if it is prepared without an Acid, or with Lemon Juice. These wonderful Qualities have been acknowledged, and defervedly celebrated in all thefe Cafes, both by the Ancients and the Moderns. See upon these Things the Differtation of the learned Doctor of Hall, De Seri lactis virtute longe faluberrimâ.

What I have faid of Whey, I fhall prefently apply to the Sugar of Milk in particular, and inlarge upon every Article. In reuniting these three several Substances, such as are in fact found in new Milk, it will be easy to judge (from what I have faid of every one in particular) what is, and ought to be, the natural and neceffary Effects of Milk in our Bodies. I come now to my Subject.

The Honour of the Invention of the Sugar of Milk, is attributed to a famous Phyfician of Venice, called Tefty; and it is certainly known, or we are well affured, that this illustrious Inventor has published about fifty Years ago, a Treatife concerning it. But this Book is so fcarce, that it is very hard to be found at prefent, at least I have not been able to get one. This Confideration has prevailed upon me to comply with the Defire of some Gentlemen, to communicate to the Public, what I know upon this Subject.

The Sugar of Milk is only a Salt contained in this Mixture, and feparated as much as may be, from the other Principles of which Milk is compounded. In general, to make it, you muft have a fufficient Quantity of Whey, prepared, if poffible, without an Acid, extremely clear and limpid, and made out of Milk, coming from Cows well fed in rich Paftures; fuch are those of our Mountains*. Then you draw the Salt according to Art. If this Salt is well made, it will be very dry and very white, of

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* In Switzerland.

a fweet and agreeable Smell, of a pleafant Tafte, and a little faltish, eafily melting upon the Tongue. The Skill and Ingenuity of the Artist doth not a little contribute to the good Success of the Operation; and I may fay, that without them, all the Rules that could be given for its Preparation, would be useles. The Sugar of Milk doth not ferment with Acids, nor with Alkalies. Spirit of Vitriol and Oil of Tartar per deliquium act equally upon it. It doth not eafily take or attract the Moisture of the Air; only it becomes then, and in process of Time, yellowish or blackish. It equally melts in hot and cold Water, but fooner in hot Water. You feel upon the Tongue but very little Tafte of Salt, which is temperated by a great Sweetnefs; and the Smell, I fay again, is fweet and pleafant. From whence we may conclude, that it ought to be ranked in the number of neutral Salts, and be affured that it is a mixt Salt, impregnated with fome fulphurecus Parts, from the Mixture it is made out of; very near in its Nature to the effential Salts of Plants.

It is by reafoning upon this Principle, that I shall deduce and explain its Virtues in Physick.

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Those that are ever fo little converfant in the Theory of Difeases cannot but know, that the greatest Part of them proceed originally from thick and vifcous Blood, loaded with gross Particles, fixed, and of a Diameter or Configuration which bears no Proportion to the Mouths or Orifices of the smallest Vessels of our Body. These gross Particles of the Blood, not being able to circulate eafily with the most fluid, they stop in different Places, chiefly in our Viscera or Bowels, and in the Glands and Veffels appropriated to Secretions and Excretions. There they gather afterward by little and little, and at last, grow hard. Thus they become the real Caufe of many Diftempers, differing among themselves in regard to the Seat of the morbifick Matter only, but which are most certainly the fame, both in their Nature and in their Principle. From thence generally proceed flow and hectic Fevers, the Phthifick and dry Afthma's, Schirrus's, and Tubercles, Schirrous, and Cancerous, which now and then draw along with them and caufe fome Exulcerations; from thence the Obstruction of the Viscera, or Bowels, and chiefly those of the lower Belly, and in the lacteal Veffels in Children. From whence proceed Leannefs and Atrophy, or Confumptions; from

from thence also the Gout, and sometimes nephretick Cholicks, with the Accidents are their Attendants; and in that short, all the Effects and Complaints, which are the Confequences of Obstructions, the Supprefiion of excrementitious Humours, the Plethora, a Depofition of hetereogeneous Particles and Congestions. It is not less certain, on the other fide, that there be many Diftempers, which can only be attributed to a manifest Alteration of the Juices contained in our Body, which degenerate from that foft well tempered and balfamick Quality, which ought to be in a State of Health; whence the Parts wherewith the Blood is naturally compounded, are not each of them in due Proportion, nor all united and tied together among themfelves as they fhould be. This is the Origin and Caufe of many Obstructions that are formed in feveral Parts of the Body, according to the particular Disposition of each Part, but which differ from those already spoken of. From thence also are derived the irritative, spasmatick Contractions of the Nerves, very frequently met with It is to fuch a Conflitution in Practice. of the Blood, and to the Effects it produces, that I chiefly attribute bad Catarrhs, the wandering Gout, the Rheumatifm,

matism, and various other Symptoms that attend the Scurvy. Perfons advanced in Years are exposed by a natural Consequence of their Age, to different Complaints that the Sugar of Milk can and will prevent. What I am going to fay, will be a Paradox to many. It is commonly faid, that Wine is the Milk of old People, and that it is only this which can keep them up; but it is a grofs Error and a Herefy in Phyfick. The Blood and the Solids in old People are dried up with Age, the Veffels grow narrower; and by the natural Effect of fuch a Disposition, the Secretions and Excretions are not performed as they .ought to be. On the other hand, Perfons often cannot give themselves the Motion and take the Exercise necessary to break and fubtilize the Blood, and keep the excretory Veffels open. They neglect most commonly Bleeding and Physick, grounded upon an old Prejudice fatal to many; that you fhould not take a Purge, nor Bleed, when once you have attained at a certain Age. By this means the Humours accumulate beyond measure in the Body, and foon contract afterwards a bad Quality; from which proceeds in an advanced Age, an obstinate cutaneous Foulnefs, attended with an extreme Itching; Stagnations in the Bowels or Vifcera;

Vifcera, Cholic, and a Languor or Faintnefs, in which we fee often old People fall into, and many other Diforders, which are peculiar and familiar to them. It will be feen by and by, in recollecting thefe Hints, for what reafon, Sugar of Milk is proper for fuch forts of Perfons, and Wine not fuitable to them, fo much as is believed and commonly faid.

If my Defign was not to keep to thefe Generals, and I had a mind to run over some particular Distempers, in which the Sugar of Milk is uleful, I could fpeak of many. But I shall confine myself toone a lone, very common, and upon which Phyficians have wrote feveral Volumes; tho' the Nature and Caufes of it are still obscure and hidden to many. I shall here enlarge for this purpose, more than the particular Subject of this Differtation seems to require. The Diftemper I mean, is very well known, under the general Name of Vapours. It is called an Hypocondriack Affection, or Complaint, in Men, and in Perfons of the fair Sex, they give it the Name of hysterick Passion. This Distemper has no Accidents or Symptoms that are proper and peculiar to it, and that effentially diftinguish it from any other Illness; fo that it is impossible to give a fhort and exact Definition of it, 111 and

and by which the fpecific Difference shall be obvious. It is only a Complication of different Accidents, which vary as to their Number, Violence, and Duration in various Subjects or Patients, and often in the fame Perfon. In general those that are feized with the Vapours, have a very great and frequent Swelling of the Stomach, which excites from Time to Time, chiefly in Perfons of the other Sex, a feeling like a Globe which rifes from the Stomach to the Throat, and feems as if it would fuffocate them. Often they feel in the lower Belly Pains, wandering and obscure it is true, but which caufe mortal Uneafinefs to them. It is not feldom that they are feen to fall into an Anguish and Perplexity, and into a Weaknefs or Inanition, fo that they feem to be breathing out their last. The throbbings of the Heart chiefly then afflict them, and fometimes a fainting Fit happens. But what troubles them most, is a heavy and dull Pain in the Head, attended fometimes with light Vertigo's or Lightheadednefs, and Tinglings of the Ears; it feizes them often all of a fudden, and without any evident Caufe. It is to this grievous Diftemper, to which the Name of Vapours is properly given, which flupifies them, renders them fretful.

ful, and inclines them to Solitude, and makes them often Despair of their Salvation. We can attribute all these Ailments to nothing but an extreme Senfibility of the nervous Syftem, joined to a confiderable Thickness of the Fluids. The Solids, chiefly those that are nervous, fenfible in the manner I suppose them to be, whether they be naturally of a weak and very tender Contexture, as they are chiefly in Perfons of the other Sex ; or by fome foreign Caufe they be too much firetched, and have too great an Elafficity, must be very fufceptible of Motion. The Fluids on the contrary, in these Cases being already too thick and too grofs, very little agitated and beaten by the Solids, which I fuppofe therefore weak, and often troubled with an irregular Motion, cannot be comprefied to be liquified, and acquire the neceffary Fludity. It will happen from thence, that they will eafily caufe Infarctions in the Veffels of the Body, where the Compression and Beating of the Arteries are lefs ftrong, and where the Blood is naturally reftrained in its Courfe. Thus the greatest Obstructions will be neceffarily formed in the floating Viscera or Bowels of the lower Belly; as well becaufe the Veffels, which convey the Blood, run into infinite Convolutions, C 2

and

where the Circulation is already flower, as becaufe thefe Parts are not beaten. or ftruck by any Muscle, that propells and causes the Blood to move. Or if by any Caufe whatfoever, the Blood is fometimes inclined to flow abundantly, or with greater Strength, into thefe nervous Parts already obstructed and very fusceptible, confidering their extreme Tenderness or exquisite Sensation of the most minute Impression; or that by some other Caufe they be twitched, pinched and irritated, it must necessary follow, that they will be greatly moved and shaken, and by those means they fall into a fpafmatick State and convulfive Contraction. It is chiefly to these Spasms or Convultions of the Bowels or Vifcera in general, proceeding from what I have discussed, that I refer and attribute all the Accidents and the different Symptoms that we observe in Persons troubled with Vapours. One may at least deduce them all from thence.

It is eafy now to know, and to conclude from the Pathology that I have ethablifhed, and from what I have faid of the Nature of the Sugar of Milk, to what Diftempers, and for what Caufe this Remedy is proper, by reafon of its fweet Salt; it must be opening, inciding, fit to break the Blood, to digest, and and attenuate thick Humours, to deobstruate those Veffels that are clogged, to keep the Strainers open, to reftore every where a free and perfect Circulation. The fulphureous Parts wherewith it is loaded, and that are perceptible by the Smell and Tafte, are very proper to foften, and correct the Acrimony and Sharpnefs of our Juices, and to relax the folid Parts, which are too tight, and too much firetched, be the Caufe whatfoever it will. What can there be more proper for Perfons of a delicate and tender Conftitution? In the Phthifick, chiefly in that of the Lungs and in an Afthma, especially a dry Afthma, than this Salt, fo mild and moderate, to difengage the fmallest of the pulmonary Veffels, which are much clogged and stuffed, to diffipate, refolve and foften those Tubercles which are formed there, and to deterge, cleanfe, and fcour that ulcerated Part? What more fitting in these Subjects, than this mild and affured Opener, at the Beginning of the Obstruction of the Mefentery, and of other Viscera, and in that of the Glands of Articulations, in Hypocondriacks as well as gouty Perfons, and in fome fort of nephritick Cholicks; what can be more efficacious for the fame Reafons, in flow and hectick Fevers, vers, and more convenient to relax the Solids, often then too tenfe, and already dried up by the Ardency of the Fever, and to abate by these means the Heat which proceeds from thence, and which confumes the Patients? It happens befide (as I have already intimated) that there are feveral Cafes in Practice, where you eafily perceive the Blood spoiled and corrupted; and it is common to add, that this Blood must be corrected and purified; but thefe great Words have often no meaning; and are generally a Cover or Cloak to hide Ignorance. A good Phyfician ought always to enquire in what the Blood is deficient, and what Remedy he ought precifely to ufe. For the Blood, though it is altered in Fact, it is not always in the fame manner, nor by the fame Caufe, fo that the fame Medicine which is faid to be proper to purify the Blood, is not always fit, you must often, even in the fame Diftemper, and what is still more, in the fame Perfon, vary the Medicine. But without attributing too much to Whey, or its Salt, I can affure you, (referving however the Restriction which I shall make hereafter) that among all the Medicines proper to purify the Blood, there is none of more general ufe, than this of which I am speaking. Is the Blood Nors,

Blood acrid or full of Salts, as fome farther fay? What fitter to fweeten it, and to deftroy this muriatick or briny State which they fuppose? Is it too thick and deftitute of its Serum? What can be more proper to attenuate, and to dilute it, than Whey and its Salt? Is it on the contrary too full of Serum, or Water ? The Sugar of Milk, by opening all the Strainers, will it not diminish this too great Quantity of Serofity? Is there formed in the Blood itfelf fome Concretions of the groffest and most fixed fort, because the lightest and most fluid difengage, and separate themfelves from the reft? What can there be more effectual to break them ? Does there from thence follow any Obstructions in the Glands or capillary Veffels? Is not the Salt of Milk a good Opener? And finally, do the Solids, irritated and pinched by the ill Habit or Intemperies of Blood, fuffer ftrong Vibrations ? What can there be more efficacious to make them ceafe than this Remedy, which is directly levelled at the Caufe of the Evil? I conclude then that almost, in all Cafes, where the Blood is to be parified, in obfinate Fluxions or Rheums, which return often, in the wandering Gout, in the gouty Rheumatifm, in an obstinate Itch, and in general in the ,0011

the Scurvy, where the Blood is always altered, we may make use of Whey and its Salt with Success. It is not lefs proper for ancient People to remedy the Complaints to which their Age exposes them, and to prevent them. If good Wine is of use to them, to chear their Spirits, and to keep up their tottering Strength (as we cannot deny it) it must be also acknowledged that being drank to Excess, it will neceffarily produce in them, the fame Diforders, which I obferved old Age brought, and will certainly haften their Death. The Sugar of Milk on the contrary, or Whey, by humidating and moistening the Body, and by keeping all the Strainers free and open, will confequently prolong Life, or retard the Infirmities of old Age. From what I have faid before, every one may perceive its Fitnefs in thefe Cafes. The chief Medicines that have hitherto been proposed for the entire Cure of the Vapours, befides Exercife and what diverts the Mind, which are here of an absolute Necessity, are Chalybeates and Mineral Waters hot or cold. These Medicines, and others of the fame Nature, have their Merit; but I deny that they are proper in every Cafe, and to every Conflictution. I have always observed, that the Filings of Steel or Iron,

Iron and all other bracing Medicines did Harm to Patients, whofe Solids were too dry, too tenfe and too elaftic. Cold mineral Waters, and Baths of foft Water, do not ease those of whom the Fibres are naturally of a weak and tender Contexture; and the hot often wafte what remains of what is liquid and fubtile in the Blood. And farther, all these Waters, if you drink a certain Quantity of them, and they do not pafs very quickly, will fill by their Bulk, and diftend or ftretch beyond measure the Veffels already entangled and embarrafied; and by reafon of their great opening Quality, will strike with Force against the Obstacle that they will find in their Way. Every body may understand where that will tend. You have none of these Inconveniences to fear from Whey or the Sugar of Milk. Who doth not see what Effect in these Cases will be produced by a Medicine fo mild, and of which the natural and neceffary Operation, is to deobstruate without Violence, and to relax the Parts of the Body which are too much extended ? We ought to look upon it as a great Point, in the treating of this Distemper, to have quieted the Patient, and taken away the first Obstacles that oppose themselves to their Cure. It is then to be hoped, that in Process of Time, the Solids, If they

are in Fault, only becaufe they are too weak and tender, will acquire the Strength requisite to refift the least Action, of what can make Impression upon them. In many of these different Cases, the Sugar of Milk hath greatly the Advantage over Milk itself, and other Parts of the Milk. It is not indeed fo nourifhing, at least of itself, nor so efficacious against corrofive Poifons, as Milk or Cream. I own befides, that where there is a thick black and dried up Blood, which ought to be humidated, moistened and diluted, efpecially in a dry, bilious or melancholick Conflitution, Whey, in regard of its fluid, is to be preferred to Sugar of Milk. But there are many Cafes in which Milk or Whey would be proper, where we dare not however prefcribe them, and where without Danger Sugar of Milk is given ; as where there is a weak Stomachand filled with Acidities, a Difpolition of the Body by which every thing is turned into Phlegm, Veffels infarcted, a thick, viscous, phlegmatic Blood. The Averfion, and often the fatal Prejudice of Patients frequently prevent the Administration of this Remedy, though in other Refpects proper, and commonly many of those who could take it with Benefit have not an Opportunity to get it. It is much the fame with Whey; you cannot conveniently have it,

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it, and sometimes the Stomach cannot bear it.

We substitute then the Salt or Sugar that this Whey contains; and every one without Diffinction of Sex may take it when they want it, at all times and all Places, without fearing the least bad Effect from it. The Sugar of Milk doth not effentially differ from Whey itfelf. It is in Truth, as I have already observed, but the fame Remedy, the Vehicle of which is only either diminished or changed. The Sugar of Milk is still of more Value than other neutral Salts, in many Cafes otherwife effentially the fame. It has this great Advantage over them, that it is milder and lefs irritating. I own, that if the Obstructions are rooted and inveterate, the Humours thickened and compact, and that there is in the Body a fchrophulous venereal Taint*, there is little Effect to be expected from our Remedy: But in weak, tender, fenfible Conftitutions (which are fome of the Complaints I have already mentioned) the Solids whereof have too much Elafficity, and in whom the nervous System is affected, and where confequently you cannot administer Remedies which are poffeffed of fome Activity; the -uSmatters not whe Cebicle von take it

* It is now recommended by feveral eminent Phyficians abroad for Venereal Relicks, for Children who are born of infected Parents, or have fucked Nurfes who have that Difeafe.

Sugar of Milk is to be preferred to all oothers; becaufe bracing Medicines, and those the Parts whereof are generally fliff and heavy, are likely in what Measure foever taken, to make too great an Impreffion. I defire a particular Attention to what follows, that I may not be accused of having faid too much, when I have fpoke of the Virtues of the Sugar of Milk, that it is to this Class or Order of Patients that I confine the Use of it, viz. in the Cases already enumerated. The Sugar of Milk is then exceeding mild in its Operation, and it almost acts in an imperceptible Manner. You must continue it for fome Time to receive a fenfible Benefit from it. It doth not heat during its Operation; you only perceive that it keeps the Body open and maintains a free Course of Urine. It is for this Reafon, that in Perfons extremely weak, or in the Heat of a Fever, when you would procure thefe Sorts of Evacuations, you may do it conveniently by this Remedy, if you cannot put any other in Practice. The general Dofe of this Medicine is from half a Dram to two Drams. You may always continue the fame Dofe as you began with ; and you may take two Doses of it every Day. It matters not what Vehicle you take it in, provided it be mild and not contrary to the Diftemper you are to deal with.

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I should like however that you would chuse a Liquor appropriated to the Complaint for which you give the Sugar of Milk. So in the Phthifick, Cough and hectic Fever, an Infusion of Paul's Betony, or Speedwell, or Colt's Foot, feems to me preferable to any other Vehicle. For Spaims and convultive Contractions which are felt in the lower Belly, chiefly in hypocondriacal Perfons, the Infufion of Yarrow, St. John's Wort, or Camomile, is very proper. You may take for an emaciated Perfon, the Ptifan of Pearl Barley; in Difficulties of Urine the Decoction of Marshmallows or Linseed; and in particular Cafes of Obstructions the medicinal Waters fuch as are thought proper. The Vehicle must be neither hot nor cold. You may prepare yourfelf for the Ufe of the Sugar of Milk, by once bleeding and one Dofe of Phyfic, according as the Cafe and the Constitution require. You must observe a proper Regimen during its Ufe, and avoid every Thing which may prevent its good Effect.

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APPENDIX,

Wrote by the Person who publishes this Differtation in English.

THE above Papers recommending the Sugar of Milk for the Scurvy; and this complaint being fo universal, it will not be improper here to add, that I have feen furprizing Effects performed in Scorbutic Cafes by Herbs boiled in Milk, which is entirely to be attributed to the Whey or ferous Part of the Milk, fince the cafeous Portion and that which generates the Butter remains coagulated in the Sierfe. So that I do not doubt, but a Decoction of anti-fcorbatic Herbs used as a Vehicle for the Sugar of Milk ; fuch as Scurvy-grafs, Brook-lime, Leaves of Wormwood, Sorrel, Fumitory, Spleen-wort, Betony, Carduus benedictus, the leffer Centaury, and Marshtrefoil, will overcome the Obstinacy of this Diftemper, and fubdue all its formidable Symptoms. Remarkable Inftances also have occurred in scrophulous Cafes by Milk boiled with Water-creffes and ftrained.

In the Medical Effays; Vol. I. Page 335, 336, printed at *Edinburgb* is what follows.

"We are informed from Leyden, that Dr. Gaubius, who has fucceeded Dr. Boerbaave in teaching Chemistry, gave in the Beginning of 1731 a publick College on Milk; in which he shewed a great Variety of Experiments, and among the rest, prepared its effential Salt, by boiling Whey (Serum Lactis) to one half, then filtrating it; he continued the boiling and filtrating, till it became of the Confistency of a Syrup, when it was put into a Cellar to crystalize, and there the Salt formed into a Cake, which was of a faccharous Taste, and refembled Manna."

"Note. This Preparation is fomewhat different from that which Valentini* alledges to be the famous Saccharum lactis, fo much cried up by the first Preparer of it, Ludovicus Testi+, and recommended by others as an infallible Cure for the Gout."

Having feen the medical Effays above cited by Valentini, I thought it neceffary to translate into English, the most material Things, this Author mentions concerning the Sugar of Milk. He agrees with Dr. Dyvernois in faying, that the Treatife of the Sugar of

* Medecina nov. antiq. + In Epistol.

of Milk made by Lewis Testi, Profeffor of Phyfick at Venice, was not easy to be met with; for which Reason to oblige the Public, he has republished several Letters wrote to that learned Inventor by several Persons, who gave him an Account of the Success of his Sugar of Milk.

The first is a Differtation concerning the Gout, and an Observation of the Use of the Sugar of Milk, wrote by *Aloyfius a Fabra*, Doctor of Philosophy and Phyfick at *Ferrara*.

He congratulates Tefti upon his having found out a Remedy, which according both to Theory and Practice would cure the Gout. He affures him that many have used the Sugar of Milk with great Success, among the Number of whom he relates the Cafe of " one John Denzis, a Painter of Bologna in Italy, of thirty-fix Years of Age, a married Man and who lived at Ferrara, (he names the Street, &c.) who was afflicted ten Years; first with the Gout in his Foot, afterwards in his Hand; and at last his Joints were full of Knobs. Since this laft Symptom appeared, for four Years running, he was fo forely afflicted, that he was not for a whole Month together, without an eryfipelatous, gouty Swelling, attended with a violent acute Pain, and was feized with a burning Heat. So that

that by this excruciating and very painful Diftemper, and the Knobs and Chalk Stones round the Joints of his Hands and Feet, which grew worfe and worfe, and thefe last stiff and inflexible, distorted and contracted, from whence he was deprived of Motion and continually kept his Bed; had likewife a periodical Fever, which was continual towards Night, attended withan exceffive Thirft, a frequent, quick, and hard Pulfe, with extreme Anguish and great Pains every where; In this condition he fent for the above Dr. à Fabra, (who after having given his Reafons why he ordered a Vein to be opened) fays, the Blood, after it had flood a while, was a Jelly, quite white, and clotted at top; and kept or preferved the Substance of only a fourth part; of a blackish, rather than reddifh Fluid, and of no Confiftence. The Doctor advised him, after having tried other Things, to take Tefti's Sugar of Milk, which was well known to him. He began it the 10th of June, keeping to a proper and regular Diet, and taking each Week a mild Purge; he found fo great a Benefit and Eafe, that his Feet and Hands were rendered pliable; and he could walk briskly any where, and followed his Trade as he used to do, before he was ill. But what was more wonderful, about the middle of July following E

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lowing there ran for twenty four Days from a Chalk Stone and Knob in the left Hand, which was larger than the reft, a chalky Matter, liquid or diffolved, as if it were the whiteft Pus, with fomething like corrupted Blood, in which were little Crumbs, very small and few in Number, like unto the Hardness of Lime. The reft of the Chalk Stones and Knobs went all away, as well from that left Hand as from the right; the Sinus's left by this corrupted Sort of Matter acquired fuch a Smoothnels and Softnels, that being fqueezed, the Hardness being gone, they would bear to be handled without Pain. Therefore the Sugar of Milk affords ground to hope, that it is poffible the Gout, accompanied even with Chalk Stones and Knobs, may be cured. The Limner now, continues the Doctor, paffes his Days chearfully, and is at this very Time at work out of the City, (he mentions the Place) and wrote to him a Letter, telling him he continued the Sugar of Milk. This Account was wrote to Testi, Sept. the 16th.

Another Letter was fent to him (Tefli) by the fame Dr. Aloyfius à Fabra about fix Months after; in which, after extolling the Sugar of Milk, he mentions again this Denzius the Limner, who, faith he, had not had the least Sign of the Gout

Gout during all the foregoing Autumn and Winter, though he had been expofed to a very cold Air, during most part of that Time. The Doctor names afterwards the Marquis Cornelio Bentivolio, a noble Venetian; who was cured ever fince the Month of October, of an hereditary Gout by the Use of the Sugar of Milk. This Nobleman, before that time, was hardly a Month together free from it. He also tells us that a Gentleman, whole Name was Cæfar Gualander, was as happy as the above Marquifs. That being forely afflicted with the Gout, and having had fevere Fits of it three or four Times in a Month, he began the Ule of the Sugar of Milk in November, and had not had the least Touch of it fince. And whereas, before he took it, he had a fallow Complexion, and a very bad Habit of Body befides, was then fresh coloured and a great deal better in every respect.

Jacob of Italia, a Jew, who for ten Years, (the Doctor goeson,) was grieved and tormented with the Gout, and his Juices very bad; yet after taking the Sugar of Milk, he was also better every Way, and grew fresh coloured, fo that he looked as if he had been raifed from the dead. This Letter is written the 1ft of April.

The Encomium or Praise of the Sugar of Milk, wrote by Cajetanus de An-E 2 gelis

gelis Mevanatis, Doctor of Philosophy and Physick, and Professor in the illustrious City of Tody, to the great Testi, contains the following Case.

The Rev. Father F. Bernard de Montefalchio, in a Monastery of the Holy Mount of Todi, who for ten Years had been confined to his Bed, as if he had been nailed to it, by the Gout, took the Sugar of Milk three Months before this was wrote; and received fo much Benefit by it, that he recovered the Use of his Limbs; and all the Chalk Stones wherewith his Hands were loaded, and one of these Stones in the right Elbow as big as an Egg, were diffolved in the same Manner as Dr. à Fabra has related before of the Painter.

Vincent Clericus, a most eminent Phyfician of Parma, and Reader of practical Physic in that University, gives the following Account.

A certain Religious was tortured for feven Years with the most acute Pains of the Gout; though fometimes they were a little abated; conformable to the Changes of the Weather. The Disposition of his Body was fickly, being filled with Obstructions almost every where; his Abdomen or lower Belly hard, with a Tension of the Spleen and Liver. At last he had the Jaundice to such a Degree, that he fcarcely fcarcely had the Look of a human Creature, through the Deformity of his Face and Skin. After having used all the Methods the Phyficians could think of, he providentially called upon the above Doctor, who advised him to the Sugar of Milk. And upon using it only four Months (having taken a gentle Purge before he began with it) the former Colour of his Face and Skin returned, the Obstructions above mentioned vanished; and what was more admirable, the gouty Pains entirely ceased, and he was restored to a perfect Health of his whole Body. So true it is, that the Sugar of Milk is the only and conftant Remedy to fweeten all the bad Humours of the Body. So far Valentini.

I fhould think myfelf one of the happieft of Men, if I was made an Inftrument in the Hands of Providence, by publifhing this Pamphlet to render this Sugar of Milk more univerfally known; and be the means that Perfons, tho' troubled to fuch a Degree with the Gout as those above mentioned, might be cured.

This Sugar of Milk would alfo be very proper for those that are obliged to use the Seas, where it is very expensive, and hardly possible to have good Milk. Another Advantage resulting from this Preparation, is, that by this Means you may may have, all the Year round, as good Milk for medicinal Ufes, as in the Month of May, and may alfo enjoy the Produce of excellent Paftures, though ever fo remote from London. There are feveral Cafes fent to me from abroad, of the Efficacy of the Sugar of Milk, especially in emaciated confumptive Perfons, and in the St. Anthony's Fire; but I think I have faid enough to engage every one who wants it, to try a Remedy, fo inoffenfive, pleafant, and elegant as this must be allowed to be.

A great Benefit arifing from the Use of the Sugar of Milk, is, that a larger Quantity of what is most beneficial in Milk, may be drank, without so much of the watery or aqueous Particles, as are found in Whey; which, to many Perfons, is windy and swells them much.

Hippocrates advised Whey to be boiled to half its Quantity, that it might be more efficacious.

By preparing Milk in the Manner directed by Dr. Dyvernois, this Sugar of Milk contains the fame Salts and Particles which are drawn from Women's and Affes Milk; only that one Pint of Cow's Milk produces but one Dram; whereas the fame Quantity of the other yields about fix Drams each.— Now the Virtues of Milk for medicinal Ufes (except the Cream of it, which is good againft against corrofive Poisons) are contained in those Salts and Particles which are found in the Sugar of Milk.

The Sugar of Milk may be greatly adulterated. There are fome who take the Whey which is left after the first Coagulation, or after the first Cheefe is made, in which there remains a good deal of the Curd. They boil it to the Confisence of Honey; they dry it, and mix with it common Sugar, and fell it for Sugar of Milk; which Fraud is eafily difcovered by putting boiling Water upon it. The curdy Part will not diffolve. Others mix with the true Sugar of Milk (to encrease its Quantity) Cream of Tartar, which they add to the Whey, while it is boiling. The Tafte of it will discover the Imposture. There is a very great Difference between the Virtues of the Sugar of Milk made out of Whey, turned with an acid, or kept too long; and that which is defcribed in the Differtation. The first will diffolve in cold Water, which has no Effect upon the latter. There is now in Town fuch Sugar of Milk which was prepared in Switzerland according to Dr. Dyvernois's Directions. There are two Sorts ofit; one generally us'd, because it diffolves fooneft, and looks like very fine Sugar of the Shops, in Powder; the other

other appears exactly the fame as white Sugar Candy, and is eaten by the Ladies abroad, in order to promote their Cure. Both are very agreeable to the Sight and Tafte.

As a Medicine always acts according to its conflituent Parts, it will be proper to fet down the Analyfis made of the Sugar of Milk. To shew that it contains a very fine Nitre, put some of it upon lighted Charcoal, and it will burn in fmall Sparks as doth Nitre; to prove that it is defintute of an Acid, and that it is a pure volatile Alkali, when you distil it by a Retort, nothing but a Honey tafted Water will come out; and we may be certain its balfamic Sulphur remains, by the Distillation of the fame Retort; for when the Honey-tafted Water comes out, it is united with a balfamic fulphurous Oil.

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