An enquiry into the right use and abuses of the hot, cold, and temperate baths in England ... With a particular description of ... Buxton-Bath ... To this is added I. An extract of Dr. Jones's Treaty on Buxton-Bath ... II. A letter from Dr. Clayton ... concerning the use of St. Mungus-Well. III. An abstract of some cures perform'd by the bath at Buxton ... / [Sir John Floyer].

Contributors

Floyer, John, Sir, 1649-1734 Clayton, Dr. of Wakefield. Jones, John, active 1562-1579.

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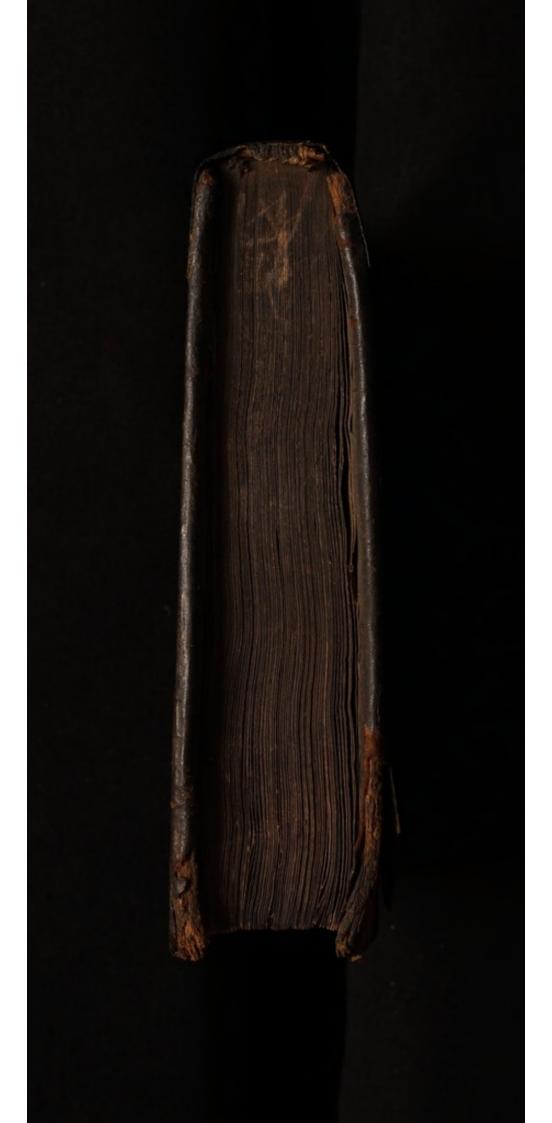


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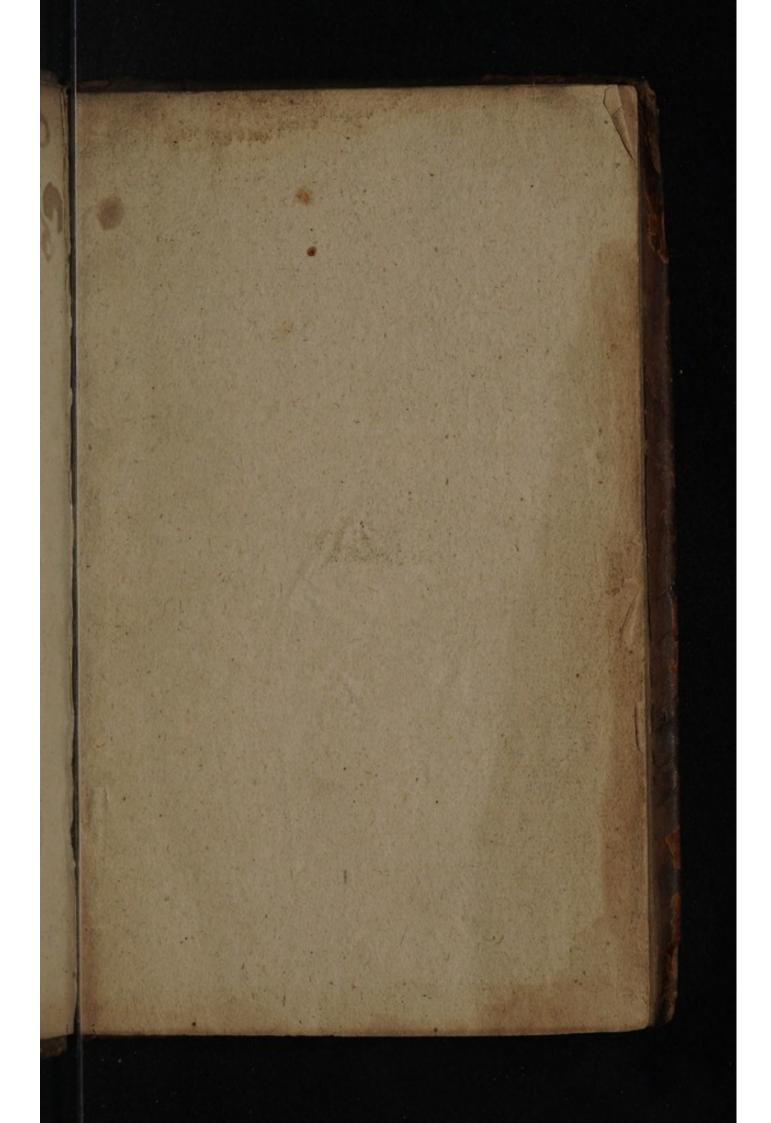


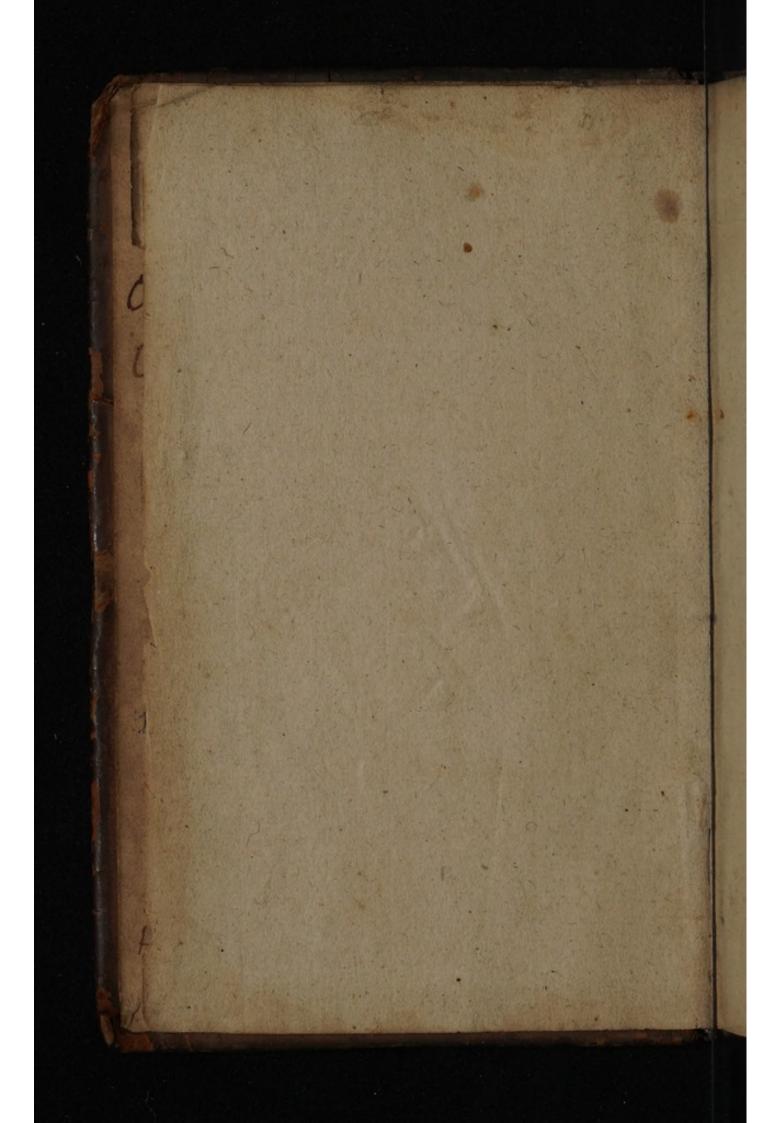


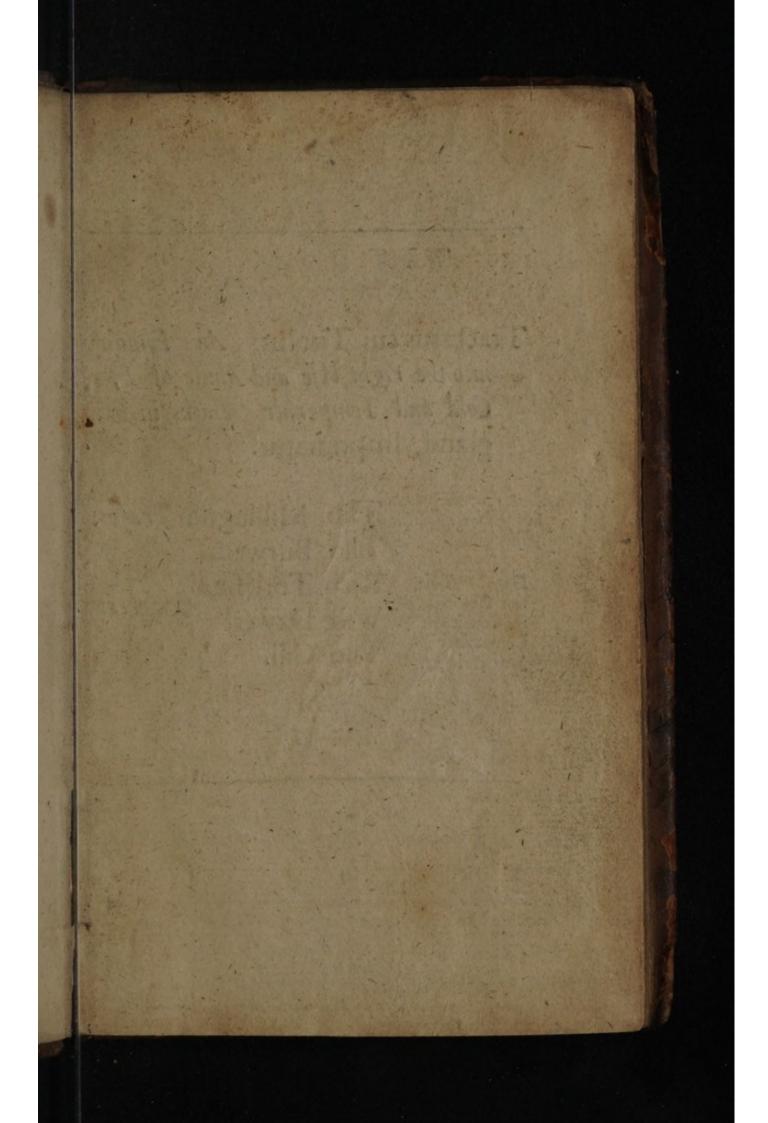


Cha is the nature of Bath p. 1 Cha. 2 The Ve and abuse of hot Baths _ - 1 40 Cha. 3. Of Temperate Bath's \$ 54 Cha 4 Of Cold Bathing - p 66 of Buxton Bath - bid 5. Claytons (etter 113 Extract of Jones tre 118 Cures by Buxton Bath 136 139 NB copy, 2 seems to have Aiblank, without the Imprimator in this Hot Reo min Tolacco Ve 38 Proface

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Tractatus cui Titulus, An Enquiry into the right Use and Abuse of Hot, Cold and Temperate Baths in England, Imprimatur.

Right Il se and A Buses

Dat. Ex Ædibus Collegii in Comitiis Cenforiis. June 4. 1697. Tho. Millington Prases.
Tho. Burwell.
Rich. Torlesse.
Will. Dawes.
Tho. Gill.

Buscian-Buth in Desirellar

A Letter from Dr. dispuss of Landshire, concernsing the ufe or St. Margers Well.
 An Abstract of some Cures personn 1 by the Bath at Bairton.

An Extract of La. Jones's Treaty on Bux on Buth

By Sir JOHN FLOORER, EC. M. D.

B.V.V. Covening on Corpora Jana, conference endem B.V.V. LOWDON, printed for R. Claud, at the Prayeck

in St. Land's-Church-gurd, 169

To ! Youll INTOTHE Right Use and ABuses Hot. Cold, and Temperate In ENGLAND. In which I. The feveral Kinds of Baths are examin'd, and their Virtues explain'd by their fenfible Qualities. II. The right Use and the Abuses of Hor Baths are discover'd. III. The proper Use and Abuses of the Temperate Baths are described. IV. Cold Bathing, as it is used by the Ancient and Modern Phylicians, is recommended, and the Injuries of it in some Cases are observed: With a particular Description of the Virtues and Use of Buxton-Bath in Derby-shire; being the most Excellent, Temperate, and fafe Cool Bath in England. To this is added I An Extract of Dr. Jones's Treaty on Buxton-Bath; with Iome Additions, and Remarks on it. II. A Letter from Dr. Clayton of Lancashire, concerning the use of St. Mungus-Well. III. An Abstract of some Cures perform'd by the Bath at Buxton. By Sir JOHN FLOYER, Kt. M. D. B.V.V. Gorrumpunt Gorpora Sana, conservant eadem. B.V.V. LONDON, printed for R. Clavel, at the Peacock in St. Paul's-Church-yard, 1697.

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TOF To His Excellency, the most ble of tington, Harl of Delagation and tin Baron Laurith of Marients B One of the Lords for figes of the Realm of Majoffy's actor Knight of the read bao ber with greater elanistion, than lour Graces

ble Prince, WILLIAM Duke of Devonshire, Marquess of Hartington, Earl of Devonshire, and Baron Cavendish of Hardwick; One of the Lords Justices of the Realm of England during His Majesty's absence, Lord Steward of His Majesty's Houshold, Knight of the most Noble Order of the Garter, Lord Lieutenant of the County of Derby, and one of His Majesties most Honourable Privy-Council.

May it please Your Grace,

One of the extraordinary Rarities of the Peake Jurprised me with greater Admiration, than Your A 3 Grace's

Grace's famous Baths at Buxton, which seemed to me like some rich Mineral conceal d amongst the monstrous Hills.

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This Jewel of Nature is happily bestowed on Your Illustrious Family, who know best how to adorn such natural naked Rarities, with magnificent, pleasant, and convenient Buildings, and, by Your great Example, give incouragement to the frequenting of these excellent and useful Baths.

Where such natural Baths have been wanting, great Princes, or Emperors have supply'd their Defect by artificial ones; by which they express their Opinion of the usefulness of Baths to the Publick; and by the erecting them, they design'd to oblige the Multitude, who desired

desired the use of them for their Pleasure, Beauty, or curing Diseases.

In the most flourishing Times of the Roman Empire, the number of Baths was infinite at Rome. The Dioclefian Baths equalled four of the greatest Palaces in Italy. And the Antonine Baths contain'd Sixteen Hundred Seats; and by its spacious Buildings, Places for Exercise, Ponds, Walks, Portico's, resembled a whole Province: And these Baths were adorned with Statues, noble Columns, Silver Pipes, and rich Gems.

Your Noble Family did formerly erect these Baths at Buxton; and what is wanting for Pleasure and Convenience, is by all expected from Your generous Hand, Baths

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Baths were always thought worthy of the Care of Statesmen; and Cato opposed the introducing the use of hot Baths in Rome, by which the Roman Manners might be corrupted, and their Bodies made more Effeminate: He discerned the Mistake of the Grecian Doctors, who recommended Hot Baths for the helping of Digestion, whereas it was evident, that they subverted and weakned the Stomach. I bote Your Grace will imitate the Counfel of this Noble Patriot, by incouraraging this present Age to leave off the imprudent Use of Hot Baths, and to regain their ancient natural viguor, strength and bardiness by a frequent Use of Cold Bathing.

Your Grace's Bath at Buxton is to exactly temper'd by a mild Heat,

that it puts the nicest Constitutions in no fear of danger by the uses of it; but the benefit of it is extraordinary, by restraining the preternatural quantity of Perspiration, by strengthening the Nerves and natural Heat. By these it is easie to prevent all Instammations, Pains, Rheums, Fluxes, and Gout, and all other Effervescences in our Humours.

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The benefit of Cold Water was anciently known to the Germans, who dipt their new-born Children into Rivers, to harden them; and the Northern People rub their frozen parts with Snow, to regain their natural Heat and Colour. But I will give Your Grace some Examples of Cold bathing from the Romans in the most flourishing time of their Empire; by which it will appear, that

that I publish no new Doctrine, but only design to revive the Ancient practice of Physick in using Cold Baths, amongst which, Buxton is the most temperate and safe.

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Antonius Musa first practised this Cold bathing at Rome, by which he cured the Emperor Augustus, who being subject to Distillations, had long despaired of his Health, till Musa observing the Hot Baths to do him injury, did try a contrary Method, and cured him by Cold bathing. After which, Suetonius relates, that Augustus used Hot Baths very rarely; but for his Nerves he used Sea-Water for a Bath, or the Albulæ, which were the most temperate Baths in Italy; in Virtue and Heat most resembling that at Buxton. For this miraculous Cure, Augultus

gustus, nobly rewarded Musa, and placed his Statue next to Æsculapius.

By this Success on Augustus, Musa was encouraged to try cold Baths in all Diseases: but as it happens to all Emperical new Methods, it was improperly apply'd by him in the Winter, to young Marcellus, whom Musa killed six Months after he had cured Augustus: and this rash use of cold bathing is described by Horace, which was exposing their Heads and Breasts to the falling of cold Springs on them, in the Jevere Cold of Winter. But this Accident did not difcourage this practice, but obliged the Physician to be more cautious, and to find out the right use of Cold bathing; for Horace, by the Advice of Mula, left the hot Baths, which did injury to his inflamed Eyes, and went to the cold

cold Baths at Clusium and Gabii; but finding those Countries too cold, he writes an Epistle to Vala about the cold Baths at Valie and Salernum.

Seneca afterwards practifed Co'd bathing in the Sea, and calls it his old Art; and gave himself the name of Psuchrolontes, in his Epistle to Lucilius; and it appears that he was so great a lover of Cold bathing, that in the Calends of January, he leapt into a Spring near Tybur.

I could give more of the History of cold bathing from the Roman History; but I think it Jufficient that their greatest Emperor, the wittiest Poet, and their most admired Thilosopher, pratised the Piuchrolusia.

sidt particular Offerings, Polytimages

This practice of Cold bathing was certainly brought by the Romans into England; but it was known and pra-Etised also by the Germans, and from them it might come to their Neighbours. The Heathen Priests grounded their Worshipping of Wells on the Virtue of Medicinal Waters, attributing their cheap and sudden Cures to a present Deity. The bringing Alms and Offerings to Wells, was anciently forbid by Edgar's Canons: And Dr. Hammond mentions the Injunctions against worshipping St. Edmund's Well without St. Clement's at Oxford. This Custom was afterwards imitated by the Romish Priests, who dedicated the Medicinal Springs to particular Saints: So one of the Wells at Buxton is call'd St. Ann's; and by the particular Offerings, Pilgrimages, and

and Devotions, the Common People were deceived, and attributed all their Cures to the Merit of that Saint, and their own Devotion, which was due to the Physical Virtue of cold Springs, and God's Blessing on a Natural use of them

The Disuse of these Waters at Buxton Ibelieve was owing much to the Reformation, which gave a general Aversion to the Romish Superstition, with which the People being out of Humour, they refused the good Use, as well as the Superstition of the Baths. And that Age being very ignorant in Philosophy, they discerned not the natural Virtue of Cold Water, such as is that at Holywell, and St Mungus, the most excellent of the Coldest Baths, and the most used to this time.

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The Civil Wars have occasion de the neglect of many famous Waters. But I will add this most particular Cause of their disule; As the Virtues of the Waters formerly Supported the Reputation of the Saints, Jo now the want of a proper religious. Office to be used by the Devout at the time of bathing and drinking Waters, leaves all to a general Debauchery of Manners in such publick places, and does very much lessen the number of those who would come thither, if both the Ends of Devotion and Health were ferved by coming to those places. This neglect of our Church I could not but censure, being no less injurious to the Bodies, than the Souls of good Men.

I have endeavour'd truly to represent to my Country the Virtues of the Bath at Buxton; and it were to be wished, that

that the Church would propose some proper Devotions sitted to such Occasions; and we must depend on Your Grace's Munisicence, for the Splendor and Ornaments of that place, on Your Presence sometimes, which will occasion a greater Concourse there: And I must humbly beg Your favourable Acceptance of what I here have writ concerning Buxton; who am,

Your Grace's most Faithful,

humble Servant,

Lichfield, May 1.

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PREFACE.

Concerning the Nature, Causes, and Effects of Perspiration; and the Regulating of it by Baths.

Baths, it is very necessary to explain the Nature of Perspiration, which the Hot, Cold, and Temperate Baths do most evidently alter, as appears by increasing or diminishing the Weight of our Bodies; and this will oblige me to describe the several Effects or Qualities produced by the Elements, on both

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both the solid and fluid Parts of Animals, for the explaining the Changes in our Perspiration by them; by the Fire we heat, by Water we cool, by the Air our Humours are made fluid, by the Earth, or rather the Vegetated part of it, as also by our Animal Food, we obtain the Consistence of our Humours, or the dryness or solidity of our containing Parts. These first Impressions on an Animal Body, and its Humours, I will, with the Ancients, call the first Quali-The Heat and Cold, the Fluidity or Dryness, are perceiv'd by our Touch; and these produce several other Qualities in our Bodies, as they are apply'd either to the solid or fluid Parts; so Heat raresies, and Cold compresses the Confiftence

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sistence of any Blood and Spirits. And there is a third fort of Qualities, which the old Writers mention, which depend on the second Qualities, as they produce Mechanical Effects on our organiz'd Bodies; so Fire first heats, then rarefies our Humours, and thereby produces Sweat; and these several Qualities I will describe in the following Discourse, to justifie and Bo fully explain these useful Notions with of our Ancient Physicians, which they observed from what occurr'd Flui to their Senses.

by Vo 1. The external Effect of Fire on celes our solid Parts, is to heat; but we odies, blister or cauterize them, to cure the the Putrefaction, Fluxion, Pains, rare Convulsions in them: But its Ef-Con fects on our Humours are to cause

a greater internal Motion in them, and by its own actual Heat and diffused Motion, so to excite the Motion of the Aerial Spirits, as to quicken the Circulation, and thereby produce many mechanical Actions; and by expanding the Air, the Humours are rarefy'd, or attenuated, as all Liquors boiled on the Fire swell, and are inflated by the expansion of their included Air.

2. By the violent agitation in the Particles of Fire, and the Inflation mention'd, some heterogeneous Parts, like a Scum, may be separated from our Humours, as it appears by boyling or digesting of Juices.

resolves the Humours, so as to turn our Humours into Vapour,

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and fit them for Perspiration. This Effect of Fire we observe in distillation of Vegetables, which turns the Watery Liquor into a humid Vapour, condensible into Liquor again: It dissolves the Gums and Turpentines lodged in the Vessels of Plants, and by the help of the Watery Vehicle, distils them, and melts them into the Form of an Oil; It turns the crude Tartar of Vegetables, partiy into an acid Spirit, and partly calcines it into a ation fixt Salt; and the rest of the Terrene Parts into Ashes. After the arts, from same manner Fire will resolve Aniby mal Humours: First, The Serous Part into Water. Secondly, The and natural Armoniae Salt in the Humours into a Volatile Salt, and the Acid our, into a fixt Salt. The Oil is nothing and DEEL

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thing but the Globuli of Fat melted, and the thin part of it distill'd over by the help of Water. The Earthy part is the Ashes remaining. By this Explication it is evident that the Fire changes the natural States of the Principle by Distillation; but it produces no new ones, but every distinct Chymical Principle has its Parent both in the Animals and Vegetables which produced it; but the Difference and Virtue is from the Fire.

4. External Heat attracts to the outward Parts; for by rarefying the Humours, it distends the Velsels, and opens the Pores, by expanding the included Air, and gives way to the Pulse to press the Humours outwardly: So in Cupping-Glasses, the Pressure of the external is Air

Air is taken off by the Heat of the Fire in them; and the same The Heat rarefies the Air included in ain. the Animal Pores and Juices, evil which produce the Tumour of na. the Part.

Di 15. Heat condenses or thickens new whe Animal Humours, by evapora-

nical I ting the Serous Vehicles.

n the 6. It colliquates fat Liquors, pro- which coagulate by Cold, as Jeland by Broaths, all Fats, and Axungia's.

7. There is another fort of Colfying poliquation made by external Heat, Vel. which we call the Putrefaction of our Humours, when the natural Viscidity is so far dissolved or col-Ho liquated, as to want a sufficient ping tenacity or cohæsion of Parts, which is necessary to make the Bullulæ San-

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Sanguinea, for retaining Aerial Spirits. Soap gives this viscidity to Water, which makes it fit to retain the Air blown into it. We observe all putrid Humours to be very thin and sanious, as it were colliquated like melted Oil.

The Effects of Cold on our Humours, are contrary to that of Heat; and therefore as Fire acts by the agitation of its Parts, and diffusion of its Particles every way, so Cold, whose Seat is chiefly in Water, (for we naturally depend on that for extinguishing the common Fire, as well as all Animal Heats or Burnings) affects our Sense of Feeling, and produces its several Effects by its less agitation in the Particles of Water, than there is in the Humours of a living Animal.

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Cold Water is heavier than your Humours, or any other fermented Liquors; that giving them a great plenty of Elastic Air, makes them lighter, and more easily agitated than Water. And the same Water may seem Cold or Hot, according to the different Degrees of Heat, or agitation of our Humours; so the Urine appears cold to a Person in a very hot Bath: Therefore I must attribute all the Effects of cold Water on our solid and fluid Parts, to its weight, pressure, or lesser agitation than that in our Humours.

pressing the Animal Spirits, and checking their Rarefaction, or natural aerial Expansion; and hereby it occasions the Skin to contract and shrivel, and stops

stops its Pores, and hardens the Skin, word beautorg minus

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2. Cold Water compresses or condenses the Consistence of our Animal Juices, partly by its weight, or contact of Parts less agitated, and also by compressing the rarefy'd Elastic Air in the Bullulæ Sanguinis.

3. By the stopping of the Pores, by the compressing of the Juices, the internal rarefy'd Vapours which are only Watery Globuli expanded by rarefy'd Air, are retain'd; and this may be observed by breathing upon a Magnifying Glass, on the side next the Object, and immediately looking through it, the Breath appears like a Congeries of large Water-Bubbles broken on the Glass. These rarefy'd Bubbles in the Humours,

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mours, and their natural hot Effluviums, produced by their Digestion, Motion, Circulation, or Fermentation; and if they be too much evacuated by hot Baths, they make the Body weaker, the Spirits exhausted; but if moderately retain'd, the Spirits are more invigorated, and all the Animal Actions depending on them, Digestion, Circulation, Perspiration, are well performed: And by this means Cold Water strengthens the natural Heat, Spirits, and Vigor or Tone of our Bodies; and for this reason the Northern Nations rub their Frozen Parts with Ice, and have always harden'd their Bodies by bathing in Cold Water.

4. Cold Water by over-much compressing the fluid Parts of Animals,

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mals may stop their Motion, and extinguish their natural Heat; but by a moderate compression, the Humours may be check'd in their Motion; and if very viscid, the Globuli may cohere, and thereby become grumous, or coagugulate; and this way Rheumatic Blood may be made by excessive cold Weather, which causes the viscid Particles to cohere in the Pores when too much compressed. The good Effects of this Compression are to preserve the natural Consistence and Rarefaction of our Fluids, and thereby hinder Putrifaction; but excessive cold makes the external Parts pale, and at last mortifies them with a Gangrene, by hindring the Afflux of warm Nutriment into the external Velgives fels,

sels, and by congealing some of the Blood in its Vessels, which putrifies there for want of Nourishment or Motion.

5. Cold Water repels the Circulation of Humours inwardly, and thereby it occasions Fluxes by U rine, Stool, or Spitting: The quantity of the perspirable Aerial Parts retained, causes Fevers or burning Heats. The Serous perspirable retained, give Matter to the Distillations or Fluxes. Cold Countries make our Bodies pale and white; but the hotter Climes black, swarfey, yellow, by drawing the Humours more outwardly, and tinging the Skin with their Colour: Choler makes the Face yellow or green; the well-digested Blood slorid; the Vitriolic Spleen Juice, gives

gives a blackness to the Countenances: And by those sensible
Marks, our old Physicians truly
judged of the preternatural State
of our Humours. But our Moderns too much neglect the useful
sensible Notions observed formerly;
and thro' a Humour of Innovations, they reject all the Ancients
have writ, tho' very useful, and as
certain as our Senses, upon which
they grounded all their Observations-

The Operation of the Air on our solid Parts, is to compress them. We may easily discern that Effect, by taking off that Pressure by Cupping Glasses, or the Air Pump; for then the solid Parts swell by the force of the Air compressed in our Humours, which always expands

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as the pressure of the Air, and its Weight are alter'd; but the great use of the Air is inwardly, by giving fluidity, which was formerly understood by the humidity of our Humours. This Effect of the Air on our Humours was not so well understood formerly; but now we allow that Air is included in all Liquors, and gives the following Alterations to the Animal Humours.

Pores of our solid Meats, as well as in the Bubbles of our sluids, by the heat of the Stomach, the included Air being rarefy'd, it dissolves and separates the Particles of our solid Food, and agitates those of the Liquors we drink. By this internal

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internal Agitation and Rarefaction of the elastic Particles of the Air, the Food is dissolved, digested, and fermented in the Stomach, this Air becomes more elastic by a long Digestion in the Stomach, as is the Spirit of our Animal Juices in its first Origine, and was properly called by the Old Writers, The Natural Spirit, which helps the Digestion, Fluidity of Humours, and the Distribution of Nutriment; the more windy part is that which is too elastic, and goes off in the form of Wind, both upwards and downwards.

2. In the Blood this Aerial Spirit is more purify'd, the windy Parts are thrown off by perspiration, or else by breathing. A violent Agitation or Rarefaction is produced

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Ferment which occasions a Fever, or Defluxion of Humours. It is rarefy'd and compress'd, according to the Heat, Cold, or Weight of the external Air; and a violent Circulation occasion'd by any Passion of the Mind, causes the same E-bullition or Effervescence as in Fevers.

By the Rarefaction of the Air, the Serous Humidities are exhaled by Perspiration; and by the stoppage of this, either Pains, Fevers, Desluxions, or Cachexies are produc'd; the continual Flux of this Humid aerial Part, is necessary to prevent Putrifaction in our Humours. This is usually called the Ventilation of them; for as the stoppage of the Fumes of wet Hay be occa-

occasions an actual Fire, so the too free Evacuations of these aerial Particles, over-cool our Bodies, and weaken them.

3. The greatest Effects of the Air is in producing of Animal Spirits, which consist of the purer Lympha, impregnated with a fine digested elastic Air. The Glands of the Brain prove that some Lympha is strain'd thro' them into the Nerves; and because none comes forth upon cutting the Nerves, the greatest part of it must be aerial; by which I express the light fluid elastical Mixture of Air, Water, and the light Oily Parts of the Animal Juices, produced out of our Nourishment by Fermentation in the Stomach, and a long Digestion in the Blood-Vessels; and whilft

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it remains in the circulating Mass, it is properly call'd the Vital Spirit; but in the Nerves, the Animal, as it is the immediate Instrument of the Soul; and this does more immediately receive the Impressions of Hot and Cold in our Skins, and fine is variously affected, according to and the change of Weather, and the pressure of the Air. These aerial the Spirits are fit to represent the Agitation of the external Air in Sands; the Motion of the Oily Particles of Smells, will easily rarifie the aerial had Spirits, and thereby violently affect aten the whole: This gives Tension and Motion to all the Muscles, and frequently circulates into the Blood n in again.

Windy moist Air hinders Perspihill ration, by altering the Tension of

the Skin, or the Pressure of the outward Air, and by causing an Ebullition in the Humours; for in Fevers the Perspiration is very much stopped; and when the Blood is in a confused Motion, and quick Circulation, by an Inflation of the inward Membranes, the Skin is contracted.

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External Cold hinders Transpiration in weak Bodies, where the Fermentation is low; but it helps it in the strong, as all the Northern People experience, who are more lightsome; and their Bodies weigh less in cold Frosty Weather, by reason of a more plentiful Perspiration; and that the Change of Air from Hot to Cold in the Summer, hinders Perspiration about lb. j. and this produces Fevers and Distillations, in ons, when we change our Clothes too soon: This Perspirabile retained, makes the Spirits uneasie, till it is evacuated again by Urine, Stool, or Sweat within three days.

We experience, that in our Bodies being heated, cool Air stops Perspiration; yet it is as certain that an excess of Cold heats strong Bodies,
and makes them really lighter.

and makes them really lighter.

I have described the Effects of Fire, Water, and Air in our Bodies, because they very much alter the Perspiration; and it is plain, that the Element of Earth taken in our Food, supplies part of the Perspirabile, and alters the Excretional on of it, according to its different Qualities.

perspire unequally, that is, about by lb. j.

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1b. j. in the first five Hours, and from five to twelve lb. iij. and from twelve to sixteen but 1b. ss. By this Observation of Sanctorius, 'tis evident, that our daily Food must supply the Matter transpired; that till there has been a full Digestion in the Stomach, and a Sanguification of it by Circulation, no considerable quantity perspires. And from this Observation it is easie to make a Rule for our Hot bathing and Exercise, That the Body will perspire more by them, after five Hours, which time the Meat is digesting in the Stomach; and that Cold bathing twelve Hours after Meat cannot stop Perspiration much, or occasion any Fever or Defluxion by shutting up the Pores, the Perspiration being finish'd.

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The liquid part of our Diet is the greatest and heaviest, and the solid lightest, being more filled with Air; and so it is in our Excrements; in the space of one Night we perspire insensibly forty Ounces or more. The quantity of Urine is about sixteen Ounces; and the hard Excrement but four Ounces.

The quality of the Meat alters Perspiration; copious and crude Meats, as Melons, Cucumbers, Mushrooms, make the Body heavier; and all the vaporous and thin or fermented, lighter.

Thin Meats perspire about forty Ounces, as Mutton does; but the thicker, as Swines Flesh, eighteen Ounces, and in the space of a

Night.

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Fasting perspires as much; which shews, that in good and convenient feeding, we perspire the eighteen Ounces from our antiquated Humours, and about twenty two from our new Diet.

The Flatus in our Diet is, as Sanctorius affirms, rude quoddam per-spirabile: and there are two parts of Perspiration, the one is flatulent aerial, the grosser part is serous; but sweating is altogether unnatural, unless we eat or drink more than is necessary.

The preservation of our Health requires, that we should add as much to our weight as we daily lose, and that we should return every Morning to the same weight again.

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By weighing before and after sensible Evacuation in a Morning, we find that it our Diet amounts to lb. viij. in a Day, lb. v. passes off insensibly; and that exceeds all the other sensible Evacuations.

We then account our selves most healthful, when we perspire every Day alike; and Sanctorius assures us, that we should live to extreme old Age, if our Bodies in the four Changes of the Year were preserved of an equal weight; but in the begining of Autumn the weight of the Body increases, and that makes a Ferment for Winter Tertians; and from the Autumn Equinox till the Winter Solstice, we perspire less lb. j. every day; and then we begin to perspire more till the Spring Equinox; and

and he observes that in the Summer our Bodies weigh less by

lb. iij.

In the hot Air of Summer, our Bodies are of less Strength; therefore in Summer it is necessary to concenter our Strength and Spirits by Cold bathing: And there is not any more certain way to preferve our selves from this dangerous inequality of weight, than by these kind of Cold Baths, which by frequent use make the Skin less subject to the sense of Cold, and consequently to an unnatural Contraction, to stop Perspiration, when we fuddenly find the Air to change from Hot to Cold; or to spend too much of our Strength, when it changes from Cold to Hot.

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That cold Water renders the Skin callous, or, as Pliny calls it, carneous, is apparent by the Skins of Fishermen, who can indure all the Extremities of Weather, the thickness of the Skin making it uncapable of different Tensions: But all the tenderness we keep our selves in, makes the Skin more sensible of Air, and more subject to contract or relaxe, and thereby transferes inequally.

The Causes which stop Perspira-

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1. After eating, the Circulation goes more inwardly, and the Stomach and Guts are more tinged with Blood, they growing more warm by their fermenting Contents, may occasion the Humours to flow-thither; and their Contraction

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Ction upon the Meat may stop the circulating Humours there; and for this reason eating in the Morning, in the time of the greatest Perspiration, is improper, till after twelve Hours, when it is over. Abstinence hinders Perspiration.

2. All Evacuations by vomiting, purging, venery, stop Perspiration, by turning the Circulation from the Habit of the Body, and may be improper when Perspiration is ne-

cessary.

3. Water-drinking hinders it; and cool, viscid, acid, mucilaginous, styptic Diet is neither easily

digested, nor perspired.

4. The Passions of Fear and Sadness, by stopping the Circulation hinders our Transpiration; and therefore Hypondriacks cannot be cured,

cured, till their Bodies are made transpirable by temperate Baths, and humid Diet.

5. The pituitous Cacochymia, the serous, tartareous, or flatulent Constitution, and old Men, and all in whom there is a weak Heat, perspire least.

6. Cold Air and Water, tossing in Bed, Wax, Oil, Fat, outwardly hinder Perspiration, and ruine ma-

lignant Ulcers.

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The Inconveniences which attend the stoppage of Perspiration are Pains, Fevers, Windiness, Lassitude, Tumours, Gangrenes, Erysipela's, Sciatica's, Fluxes by Urine or Stool, and the Body is heavier.

shirefore Espendenacks cannot be cured,

The Causes of too great a Perspiration will cure the Stoppage of it; and are as follow.

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All hot, vinose, acrid, aromatic, salt Tastes in Diet, the actual Heat of Tobacco, do injury to the Head and Spirits, which require Cool things; that Heat over-digests the Humours in the Stomach, and occasions a quicker Circulation, and sebrile Rarefaction of the Blood, whereby it produces great Defluxions of Serum; it depresses a preter. natural Heat on the folid Parts and Spirits, if the Constitution be hot, choleric, salt, viscid, or putrefactive; and Tobacco can be only proper for the Cold Constitut tions, as the serous, mucilaginous, and windy. I have often observed Smoaking the Cause of ConPer Consumptions, and Scurvy, and Defluxions? othe cure the Sanoixuffe

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Hippocrates tells us, that the frequent use of hot things, makes the Mind effeminate, the Nerves weak, the Spirits torpid, and occasions Hamorrhages and Deliquium's of the Spirits. This seems to me an occasion of the Vapours in Men and Women, which come by the use of too hot Liquors and Diet, with high Sawces. Many drink Tea, Coffee, and actually warm Liquors, which put us to continual Sweats, and evaporate the Spirits; but Pliny observes, that no Animal drinks hot Liquors besides Mankind.

2. Hot Baths promote Perspiration, and so does hot Air: The warming of Beds, and the sitting

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by the Fire, and keeping in the Air of a warm House, disposes us to sweat; which being, as Sanctorius says, an unnatural Evacuation, they weaken the Spirits, and the Stomach, fill the Head with Vapours, occasion Defluxions, softeness, and flaccidity of the Flesh.

Many hot Clothes, and wearing Flannel, promote Perspiration too much, and beget a Lassitude, which proceeds from less Strength, as as well as more Weight in our

Muscles.

3. The violent Exercise of the Mind evacuates the aerial insensible Perspirabile; but that of the Body evacuates the serous Perspirabile, and that diminishes the Strength. Eating too much, makes Heat, and violent Exercise, always make the Perspiration.

the Perspiration visible; but the invifible is only natural and healthful, and that which follows a perfect Digestion.

Too much Exercise kills more with than too little, because of the Accident of stopping the Pores un-

warily by cold Air.

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Going into cold Water after violent Exercise, Sanctorius condemns as dangerous; for by Exercise the Humours are much rarefy'd; and by sudden Cold the heated Humours immediately coagulate; and for this reason we must not Exercise before cold bathing, tho' the Antients prescribe it, and practised it. And the Ingenious Dr. Clayton of Wakefield, (to whom for his Observations on St. Mungus Well, I am very much obliged) gives

me an account in a Second Letter, that the Americans make sweating-Ovens on the side of the Banks of their Rivers, which they heat as we do our Ovens, and when cooled again, they put the Patient to sweat in them for Fevers; and in the height of his Sweat, he runs into the River, and dives over Head; and these Ovens the Docter has seen in Virginia and Maryland.

This Practice being against the Reason of our Philosophy, and the Inclination of our tender Patient, it will not so readily prevail, tho Experience stands on its side; neither would I recommend a Practice very hazardous, to which nothing should persuade me, till I am satisfy'd of some extraordinary Advantage

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The Passion of Anger, Joy, as well ool as Exercise, inlarge the Circulation it to outwardly, and thereby propel the nd in Perspirabile outwardly; and they alnuns so inlarge the Expansion of the Aover nimal Spirits in the Cutis, to open ofter the Pores thereof; so a Net, by only holding it gently, opens its the Mashes, but by stretching of it, dthe they close more.

4. All hot Constitutions and Catient, tho' cochymia's, such as the Scorbutic, nei the Choleric, the Salt states of Hu-Aice mours, perspire too much, their thing Bloods are like a Jelly, and the am Habit of the Body dry and thin.

In hot Countries, and the hotntage est Season, and Youth, these Contitutions suffer most; the Perspira-

bile is more acrid in these Constitutions, and in Summer; and if this large be retained, it produces Malignanting in Fevers in Summer; for Perspirationally hindered, produces a Putrefaction and and nothing hinders that more than the a large Ventilation; for Gangreen and all Tumours, by Junear cured, and all Tumours, by Junear restoring Perspiration: But all these the Constitutions are fittest for colored Baths, and receive Injury by he was deep

In Sleep we perspire about ces, lb. iij. but in Watching about 2 his Ounces; the Body will fully perspir him by being ten Hours in Bed; an impose we find our selves more lightson hat in the Morning, because our Bodi are really more light, by the lc of the weight mention'd.

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The way to know what Perspiation is natural, is thus; if after his larger Supper we find by weighgnaning in the Morning fifty Ounces to ration have perspired in twelve Hours tion ime; and if we observe our weight than n the Morning when we eat nogreen thing at Night, and that be twenty Dunces, we must endeavour by these the use of the several Causes which cole promote or hinder our Perspiration, y ho to reduce it to come near the middle, betwixt fifty and twenty Ounabou ces, viz. thirty five Ounces: And ut this will preserve our Health to a perspir Hundred Years, as Sanctorius afin firms; who also assures us, That ohtlon that Health is most stable, which Bodie alters little in Perspiration.

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Hot Regim mention'd, as Brandy, Spirits, strong Wines, smoaking Tobacco, strong Ale, hot Baths, wearing Flannel and many Clothes, keeping in the House, warming of Beds, sitting by great Fires, drinking continually of Tea and Coffee, want of due Exercise of the Body, by too much study or Passion of the Mind, by Marrying too young, or by too much Venery, which injures the Eyes, Digestion and Perspiration to a fourth part, and breeds Wind and Crudities, heats the Blood, and weakens the Nerves; for all the Effeminacy, Niceness, and Weakness of Spirits is produced in the Hysterical and Hypochondriacal: I hope my Counmen will pardon my Freedom of Correcting these Vices or Errors, when

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when I shew them the only Remedies to prevent or cure these Disorders in their Bodies and Minds, which is by hardening their Bodies in the experienc'd cold Baths, first at Buxton, for the most tender, and old infirm Persons; and afterwards at Holywell, or St. Mungus-Well; and the drinking of the Mineral Waters in Summer, will prepare their Stomachs for frequent drinking cold Water at other times, by which all hot Constitutions will receive more benefit, than by Tea, Coffee, Brandy, Spirits, or strong Liquors and hot Baths.

Tacitus gives us the reason why the German Children injoyed the Strength of their Parents. Sera Juvenum Venus, eoque ienxhausta pubertas. Do-

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A Languor Lassitude, and more weight, are Signs of immoderate Coition; old Men are made colder by it by the loss of Spirits, and heavier; but young Men hotter and

lighter.

I do not persuade my Reader to change those Errors of living, without having first done so my self; for by leaving off strong Liquors, and all hot Diet, Teas, Cossee, &c. and by Water-drinking, and bathing at Buxton, I have procured to my self better Health, and more Hardiness, than I have enjoy'd for many Years before: And by the long use of this cold Regimen, I believe we may reduce our Bodies to an equal Perspiration;

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spiration; if we often weigh our selves in the time of cold bathing every Morning, we shall find the most natural and healthful Degree of Perspiration; and we need not fear the stopping of our Pores suddenly by cold Water, for that for the present will strengthen our Natural Heat, and cause a more plentiful Perspiration: And by Sanctorius's Scales he found the Body to weigh less after bathing in cold Water: And that part of the Perspirabile which passed too much by the Skin, is either hindred from being bred in the Body, or else passes by Urine; for the more the Perspiration is promoted, the less are the sensible Evacuations, and è contra.

The

The Inconveniences and Signs of the Perspiration too much, are languor of the Spirits, flaccidity of the Flesh, the quick Sense of cold Air, and Shivering with it, and a coldness of the external Parts: The aerial Perspirabile retained, disposes to Anger and Joy, but the serous to Fear and Sadness. All the hot Regimen and hot Baths have preceeded the profuse Perspiration. It is Sanctorius's Assertion, that those who perspire too much thro' the Passions of the Mind, are hardly brought to a due Perspiration: for too much Motion of the Mind hurts more than that of the Body.

I have more fully reckoned up the Causes and Signs of the stopt or profuse Perspiration, that by the gns

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use of the hot or cold Baths, we might regulate all Excesses, and by different Baths, make the Rules of Sanctorius practicable, in maintaining an equal just weight of our Bodies, and that the Addition by Diet, and Substraction by invisible Perspiration, may be proportionable and healthful.

That I might farther incourage the use of Cold bathing, I will give an account from Jones, of what he writ concerning Buxton-Baths; and from the rest of our English Writers, which mention that and other cold Baths.

Hollingshead, concerning Baths, commends Buxton-Baths, and says, St. Vincent's Well at Bristol, and Holywell, have the same Virtue.

He mentions King's-Newnam near Coventry, and calls the Water Aluminous, and that he found it to taste like Alum, but not unpleasant in drinking. There are three Wells, the biggest riseth out of a Hill, and from thence the Water is carry'd to divers parts of the Realm to be drank: It cures the Palsie, dimness of Sight, dulness of Hearing, the Cholic and Stone, old Sores, green Wounds: It Petrifies by gathering about Oak or Ash Sticks, fine Sand. At first Entrance it is cold, but after a while it warmeth, giving an indifferent Heat; no Man hath sultained Injury by the same: The Virtue thereof was found 1579. And the Fame of this Water in Holling shead's time, equalled that of Bathe.

Speed

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Speed's Geography mentions these Wells, which he says are Sovereign against Imposthumes, Stone, green Wounds, Ulcers,; and he says it

Petrifies.

Cambden describes the Newnam Springs, near the River Avon in Warwickshire, as Fountains strained thro' a Vein of Alum; and that the Water carrieth both the Taste and Colour of Milk; and that it was reported to cure the Stone, and procureth Urine abundantly, and cures green Wounds. With Salt it looseth, and with Sugar it bindeth. And from these Experiments we have the hint of using Sal Mirabile, and Polyobrestum, to increase the purgative Faculty of our Waters.

Speed mentions Buxton-Wells, and faith, out of the Rock at Buxton, within the compass of eight Yards, nine Springs rise, eight of them warm, but the ninth very cold; these run from under a fair square Building of Free-stone, and about fixty Paces off receive another hot Spring, from a Well inclosed with four flat Stones, called St. Ann's-Well: Near unto which, another Cold Spring bubbles up. The Report goes amongst the by-dwellers, that great Cures have been done by these Waters; but daily Experience sheweth, that they are good for the Stomach, and Sinews, and very pleasant to bathe the Body in it.

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Hollingshead mentions St. Neots, fifty Miles from Cambridge, where there are two Springs, the one fresh, the other salt: This is good for Scabs, Leprosie; and the other for Dimness of Sight; and these were very famous, and found

out 1579.

The Lord Bacon mentions the deficiency of imitating artificially the natural Baths, by dissolving the Salts, Sulphurs, Vitriol, in common Water. I believe we may try to imitate them; and the quantity of the Minerals must give a similitude of Taste to the natural Waters; the Heat must proceed, as in the Earth, from actual Fire: And the Quantities of the Contents described by those who have evaporated the Mineral Wa-

of the aforesaid Minerals we should dissolve.

Dr. Lyster observed z ij. of Salt in lb. viij. of a Salt Spring-Water. And Pliny says, Sextarius salis cum quatuor aque sextariis, salissimi maris vim & naturam implet. And this may be the proportion of common Salt in Salt Baths.

In England we do not yet use the Copper-Waters, as the Ancients did, to drink; and we want also the use of the Salt Baths, which are very much commended by Pliny; and divers other bituminous Waters and Baths. In this Enquiry we have not yet equalled the Ancients, nor in our accounts of Cold Baths.

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Pliny mentions the Albulæ near Rome, which healed Wounds, Egelidæ hæ, sed Cutiliæ in Sabinis gelidismæ, actu quodam corpora invadunt, ut prope morsus videri possit, aptissimæ stomacho, nervis, universo corpori.

He mentions the Spiariæ Ficis, Conceptus mulieribus repræsentat, item in Arcadia slumen elatum; and that the Fountain Linus hinders Abortion. And the like Virtue we may attribute to St. Winifred's-Well, and other cold Springs, which stop all Fluxes out of the Body.

Vitruvius describes the Nature of many Springs and Fountains; and observes, that there were hot Springs without any taste of Minerals, and that Heat was from actual Fire, maintain'd by a bituminous

or mineral Earth. We observe the Water in some Springs so rarefy'd or inflated, as to be thrown up as it were by a Wind. He imputes the Coldness to Salt Petre dissolved in Water, and their petrifying Waters are coldest. He observes the cold nitrous purging Waters at Cutilia, which diminish the Tumors of the Strume. He observes the Virtues of the sulphureous Waters, to help the Nerves, the aluminous the Paralytic: But that all Mineral Waters, inconstant Diet, affect the Nerves and Limbs, by an Inflation, & nervi In-· flatione turgentes contrabuntur, & ita aut nervicos, aut podagricos efficient homines.

Tastes of Waters; that the River Hemera in Sicily, divides it self in-

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to two Parts, and that near Ætna is exceeding sweet; and the other part, by running thro' a Salt-Mine, very salt: And others uncti oleo erumpunt, as the River Lyparis in Cilicia: These Bitumens they used instead of Oil, for Lights; and they had the Consistence of either Oil, Tar, Pitch; and they mention one Bitumen of the smell of a Citron at Carthage. Many miraculous things are related by Pliny of Waters, as their inebriating Quality, and poysonous, and the changing the Colour of the Hair of Animals. And Vitruvius mentions the smell of Metals in their melting; Gold has little smell, or more sweet; Silver is a little sulphureous; Lead, Brass, Iron, more sœrid. He mentions the bitter or ingrate Taste of

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Copper; and that the other Tastes of Metals were evident by the Water, to which they give a Tincture by standing.

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I desire leave to recommend the following Baths to the Confideration of our Country Practisers, the Virtues of which are the same as the other Cold Baths have; but the Specific Virtue depends on the Mineral.

At Willowbridge in Stafford-shire, there is a bituminous Water, of a pleasant Oily Taste, somewhat bitterish: It is the smoothest Water I ever tasted or felt. It seems proper as a bituminous Cold Bath outwardly and inwardly.

The bituminous Baths are useful for the Itch, Leprosie, Tetters, out ward Ulcers; it discusses, and is

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good for Pains, Gout, dulness of Sight, heals Wounds, smooths the Skin, helps Lameness and Contraction of Sinews, by its Oiliness. Inwardly it cures Coughs, Asthma's, Hoarseness, Stone, Gravel, sharpness of Water, Gripes, Dysentery, by its Oiliness: And by its discussing warming Quality, it opens Obstructions of the Liver, Womb; and eases inward Pains, Tumours, King's-Evil.

I distill'd a clear Oil out of the Water; and, in short, I do recommend this Water, as one of the best bituminous Baths I believe in

England.

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At Godsall in Stafford shire, there is a cold Sulphur-water, formerly famous for Leprosie; and this I may recommend for a Cold Sulphureous

phureous Bath, and may be used

as a Sulphur Medicine.

There are divers Salt Springs in our Country; and these, if mild, may be used both inwardly and

outwardly.

There is an exceeding cold Spring in Sutton-Park, called Routhen Well, which the Country use for Cold bathing in the Itch; and it may serve the uses of Cold bathing very well. Small Cottages were built there. The Taste of it is smooth and Oily.

We have many Chalybeate Waters very useful, at Lichfield, Polestworth, Bromage, and Blurton; and those who would try the utmost of Cold bathings, must begin with Buxton, then go to Holywell, and at last try Willowbridge-Bath, which

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will Oil and lubricate the Skin; and by this we imitate the Custom of the Romans and Grecians, who used to anoint with Oil after bathing.

There had exceeding cold Spring in States that, called Routhen Well, which the Country of for Cold bathing on the little the the had been and it may lerve the the hides of Cold bathing very well. State Cold bathing very well. State Cold Contages were built there.

We have many Chalobeate Waters very meints at Empheld, Poleft worth, Bronage, and Blovor; and those who would by the menost

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Buxeon, then go so elitoped, and at laft try Willowbridge Bath, which will

HE Touch-stone of Medicines; discovering the Virtures of Vegetables, Minerals, and Animals, by their Tastes and Smells. In two Volumes..

The Preternatural State of Animal Humours described by their sensible Qualities, which depend on the different Degrees of their Fermentation, and the Cure of each particular Cacochymia is performed, by Medicines of a peculiar Specific Taste, described. To this Treatise are added two Appendixes. First, About the Nature of Fevers, and Cure by particular Tastes. Second, Concerning the Effervescence and Ebullition of the several Cacochymia's on which all Instammations, Tumours, Pains, and Fluxes of Humours depend, especially those in the Gout and Astma, and the particular Tastes of the Medicines curing Ebullitions are described.

By Sir John Floyer, of the City of Lichfield, Knight.

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M. D. of Queen's-College, Oxford.

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Bole's materia medica

An Inquiry into the right Use and Abuse of the Hot, the Cold, and Temperate Baths in England.

CHAP. I.

In which the Nature of Baths and their several Species are examined, and explained by their sensible Qualities.

HE Occasion of my Inquiry into the Nature of Baths, was some Observations I formerly made at Bathe, about 3 Years since, and what I thought observable in a late Visit I made to Buxton's Bath in Derbyshire.

I found these two Baths of different Use in curing Diseases; and I observed great Irregularity in the Use of both of them.

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I observed that many Persons came to the hot Baths at Bathe, without any good Advice; or they who came with it, indifcreetly and imprudently managed their Bathing (by using of it without due Evacuation, or continuing of it too long) that they went from thence worse than they came; some having inflam'd their Blood, and thicken'd its Serum, so as to renew their Rheumatic Pains: Others died of Fevers, Consumptions, Convultions, Bleeding, Imposthumes, not long after. I frequently reflected on what is also observed by the Ancient Writers of the particular Injuries done by Bathing; that healthful Persons receive much Prejudice by hot Baths, which colliquate the Humours, and occasion Fevers, and Defluxions of Humours, Pains, Inflammations, Obstructions.

These Instances may convince all considering Persons, that we ought not to use of

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use hot Baths for Pleasure, especially where there is a fulness of Humours, and a hot Constitution; and since the following Accidents frequently happen upon Bathing, they will certainly overbalance all the Pleasure of it. These Inconveniencies come by hot Baths, Thirst and Fevers, by raising the natural Fermentation or Rarefaction of our Humours into a putrify'd State, making them viscid and salt. Hence come the Pains and Rheums occasioned by hot Baths, and the Inclinations to much Sweating, and profuse Hemorrhages. Many Diseases of the Brain are produc'd by hot Baths; as, Apoplexies, Sleepiness, Vertigo, Convulsions, Asthma's, Debility of the Sight, Swooning, a general Lassitude, and a Dejection of the Appetite, and Torpor of the Mind, and Effeminacy of the Flesh. Hot Bathing binds the Body, swells the Belly, if many Obstructions and inflammatory Cholicks be there; and makes the Stomach weak, by diverting the Circulation of Humours to the Habit of the Body, and often occasions Vomitings, and Coughs, Hickup . up, and many other Inconveniences I shall hereafter mention.

My Journey to Buxton-Well this last Year discovered to me a Bath very diferent from that at Bathe, it being a very temperate Bath, prod ucing no Sweating after it, but rather a Coldness; and upon a due Consideration I found the Bath very useful in many Cases, in which that of Bathe did Injury; as in Consumptions, hot Scorbutick Pains, and all Defluxions of Humours, and Bleedings, and all the hot inordinate Flatulencies of the Animal Spirits in Hysteric and Hypocondriac Cases. And these I found used by the Northern Countries, chiefly for Pleasure, without any Method or Preparation, or Regularity of Diet; and as the Baths at Bathe are commended like a Medicine of some eminent Quack, for all Diseases, tho' they require a contrary Remedy to cure them; so these in the Opinion of the Northern People, cure all their Diseases, whether depending upon a hot or cold Cause.

By the Observation of the different Nature of the two mentioned Baths, 25 W

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as well as the Contrariety of the Diseases incident to Animal Humours, I did believe that some short Treatise would be useful, which explain'd the Nature of the several kinds of Baths, and directed in what particular Case each might be useful, so that Physicians might not send Persons to improper Baths; nor they incur great Hazard of their Healths by an indifcreet Choice, or Use of a Disagreeing Bath.

I always believ'd our Senses were sufficiently acute to discern what was useful both to a diseas'd as well as a healthful Body: For by them, we, as well as the Brutes do examine both our Me-

dicine and Diet.

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We perceive that all Odours shew the hot Temper of our Medicines and Meats; That the cooler emit no Odour considerable.

The Taste more evidently discovers

the Virtue of all Liquids.

The Astringent Taste discovers a Cooling, Condensating, Repelling, Obstructing Quality.

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The Acid attenuates, incides without Heat, and opens and repels.

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The Acrid heats, attracts, discusses.

Bitters cleanse, open, attenuate thick Humours, without manifest Heat.

Watery Tastes cool; thicken, obstruct,

mortifie, or stupisie,

Salt Tastes dry without great Coldness or Heat, astringe; they preserve from Putrefaction.

Sweet Tastes concoct; mollisie, rari-

fie, or ferment.

Oily Tastes moisten; mollifie and ease

By the Experiments on particular Tastes, and the observable Modes of our Tastes, old Physicians, Galen, Ægineta, Orobasius, Ætius, as is evident by their Discourse upon the Tastes of Medicines, discovered the several Temperaments of Medicines, and the Estects of them; and by these Tastes they most particularly examin'd the Virtues of all Medicinal Waters and Baths. By them the most barbarous Nations, the Asiatic, African, European, and other Nations found out the Virtue

and Use of their Baths, naturally produc'd in each Country, before any great Knowledge was got in Chymistry, Phyfick, or any general Philosophy.

There was no other Physick for many Years than Bathing, Exercise, and Diet at Rome. They believed Bathing to empty all Superfluities ; and that Bathing cured all Diseases depending on an ill Diet, and external Causes, by evacuating the Fumosum and Humidum, which ought to pass by Transpiration. It corrects the Heat of our Humours, and discusses the Salt Putrid Humours, producing cutaneous Effects; as, the

Scab and Leprosie.

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We have many Senses to help in our Enquiry into the Nature of Bath Waters: The Touch inform us of those that are hotter than the natural Heat of our Humours; which are the hot Baths, the Heat of whose Water seems to me most probably to depend on some Neighbouring subterraneal Fire (as Baccius has most probably conjectur'd by the burning Hill near the Neighbouring Baye;) And he de-

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describes Places in the Field, called Sulphuraria, where the Water really boyls as in a Caldron; And he imputes the different Degrees of Heat in the Bath Waters to their being nearer to the Chymnies or Channels of Fire, when they are very hot; and that the tepid Waters are more remote from them; and he affirms that some Waters are so hot at Puteoli, that they can depend on nothing less than actual Fire for their Scalding Heat; because they burn, and blifter, and excoriate as scalding hot Water does: And Baccius further observes, in quibusdam locis ignis & aqua cum fervore emergunt.

The Neighbourhood of Vesuvius and Etna to the hot Baths in Italy and Sicily give a sufficient Demonstration of the Cause of the Heat of them; and by Parity of Reason we may guess that the same Cause gives the like Heat to Baths of colder Climates, tho the Actual Fires

are pot so evident there.

There are in those Countries Sudatory Caves, where there is a violent actual Heat; and in some Places the No ise

Noise of boiling Waters; all which prove the Neighbourhood of Actual Fire, which has sufficiently manifested it self by frequent Eruptions, which burnt to Ashes the most Celebrated Buildings of those Baths.

The fervid Baths in the first Degree are intolerable by their Excess of Heat

excoriating.

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The second Degree of hot Baths are very hot, yet fit for Baths, which are either more distant from the actual Fire, or made more mild by the Mixture of the cooler Minerals; as, Nitre, Alom or cool Springs. These have very good or bad Effects, according as they are applied to divers Constitutions and Diseases which I will describe in the following Chapter.

The hottest Bath we have, is the long Bath at Bathe; and the King and Queen's Bath; and the Cross Bath is more mild, but much too hot for a temperate Bath, the Effects of which will be describ'd in the next Chapter, to heat

and dry, and not moisten.

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The second Degree of Baths which our Sense of Feeling discovers is the temperate Baths, which are near the natural Temper of our Humours; and these may be useful for the Preservation of our Healths, as well as our Pleasure, and the curing of some cutaneous Diseases; such are the Baths of warm Water, which mollisse, discuss, concoct, strengthen, and warm.

These are good in Ephemera's, Thirst,

Lassitude and Itch.

The third Degree of Baths, of which our Sense of Feeling informs us, is the cold Baths, which chill our Humours, stop the Pores, and strengthen our Limbs and Spirits.

The fourth does not only discover the Heat and Coldness of Water, but also the Roughness or Driness and the

Softness of Waters.

That all these kind of Bathings are very useful, the Experience of all Ages testifies; and they always applied them to different States of our Humours: For if we be too hot, our Reason, as well as Experience, prescribes

scribes cold Bathing in Ephemera's and excessive Heats; But if our Bodies be chill, and pained, we use hot Baths; and for Pleasure, cleansing the Skin, and Preservation of Health, the most temperate Baths.

The other Senses which inform us of the Medicinal Nature of the Minerals dissolv'd in the Fountain Waters, are our Taste, and Smell and

Sight.

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Fountain Water as such, only lubricates, cools, and mollifies; but the purging and altering Quality depends on the several Minerals dissolv'd in Fountain Waters. These Mineral Waters we artificially imitate, by dissolving several prepar'd Minerals in them; and by the Taste of the natural Mineral Waters, we may be best directed to the nearest Proportion and Mixture of our Artificial Baths in Imitation of the Natural. There is scarce any two Mineral Waters which have exactly the same Mixture of Minerals, as we may observe by their Variety of Tastes and Virtues. Our Our Taste shews us that all Mineral Waters dry: For they evidently dry the Tongue and shrivel the Skin: Tho most Baths have compounded Tastes, yet some one is most predominant; and by that I will distinguish the several sorts of Mineral Waters and Baths.

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Baths: Sulphur is dissolv'd in these Baths, which is like the Soot of a Chimney, or Fuliginous Vapours from the inward inflamed Parts of the Earth. Metals burned, send forth the Steam of Sulphur; and that is knownby its Putor, and the Taste of Sulphur, is evident in many Baths.

The Sulphureous Baths are generally hot; but there are many Sulphureous Waters evidently cold and stinking; for which reason we believe the actual Heat depends not on the Sulphur alone.

These Sulphureous Baths agree with the cold Cacochymia's, and cold solid Parts; but are injurious to all hot Constitutions, Fevers and Defluxions of Humours; in which we prescribe to abstain from Wine, Venery, the San and Baths.

It was observed by Ætius, that sulphureous and bituminous Baths very much offend the Head if it be pump-

ed with them.

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The sulphureous Waters may be imitated by boyling Hepar Sulphuris, or Sulphur Flower in some Lixivium; or a Mixture of Sulphur and Filings of Iron moistened with Water till they grow warm; or by boyling the Pyrites in Water; the Quantity of the Water must be so much as to give it a Taste like othe Sulphur Waters.

2. Bituminous Baths.

Bituminous Waters are known by their acutus Nidor (for the Smell of Bitumen is fœtid) by this their Acrimony and Bitterness, they discuss and heat; but they mollisse more than the sulphureous Baths; because Bitumens have an Oily Viscidity in them.

All Places that burn in the Earth, have either a Bitumen or Sulphur in

them.

Bituminous Waters that have only the Nidor of Bitumen in them, may safely be drank to heal, dry and mollifie

lifie; they heal Ulcers, cicatrize Wounds; but they fill the Head, cause Sleep, and

hurt the Senses and Eyes.

These may be artificially imitated by boyling the Pissasphaltus Stone in hot Water, such as is got in Shropshire, out of the Coal-Pits near Bentall; or the Matter of the Tar-Wells, may be mix'd in Baths; or Ointments for mollifying and discussing, and the Pitch made of those Stones in Emplasters. No Bituminous Waters are yet eminent with us in England; tho' I have been inform'd, that an Oil like Turpentine has been distilled from Willow-Bridge Water in Staffordshire, which has been much commended for external Maladies.

It may be consider'd how far Barbados Tar, or the common Petrolæum may
be used for mollifying and discussing
Baths, by boyling them in Water
to make a Bath like the Hydrolæum.

I have heard of a Bituminous Mud in Lancashire, and in other Places, which would supply the Illutamentum used by the old Romans in External Parts.

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Dr. Plot examined the Wa- History of ter in Willow-Bridge Park, Staffordin. which gives an Oily Taste to the Glasses long used; and that upon Distillation, the Oil runs over upon the least Heat before the Water, of a bright yellow Colour; and this must be of a Balfamick Quality inwardly, and have the Effects of a cold Bituminous Bath outwardly: And if this Water were heated by boyling in a Furnace it must have the Virtue of a hot Bituminous Bath.

Carduan believes Bitumen to contain Sulphur and Niter; 'tis certain there is an

Oily Part and an Acid in it.

Speed mentions a Well at Itchford in a private Man's Yard, whereon floated a thick Bituminous Scum, not yet suffici-

ently experimented.

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3. Arsenic Acrid Waters, which burn, dry, absterge and depilate; they erode the Gums, hurt the Stomach, loofe the Teeth, destroy the Horns and Hoofs of Beasts: Such is the Nature of Arsenic it self, which burns, eats, breeds crusts, like actual Fire.

Baccius

Baccius commends the Waters mixed with Sandaracha, if much diluted, for cleanfing the Breaft from purulent Matter, and helps the Suspirious, and short breathed.

We imitate these Waters by a Mixture of Arsenic and Calx viva, boyled for

a depilatory Medicine.

All Acrid Wagers corrode, penetrate, putrifie, and absterge. Pliny mentions a Fountain in Germany, on the Sea-coast, of sweet Water, which occasioned the Teeth to fall; Stomace Medici vocabant, Sceleterbe ea mala. These Putrefactions in the Humours were occasioned by that Fountain, which must depend on some such Mineral as Arsenie; and the HerbBritannica was it that curedit, which was not Scurvy-grass; but by the Description, some kind of Docke.

4. Salt Lixivial Baths from Ashes, as the Calces of Stones; especially Lime,

Marble or Metals burnt.

Where there are Natural Fires in the Earth, there these may be observed to be dissolved in the Neighbouring Waters; and these have the Virtue of Lime-

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Water, together with a Vitriolic Tincure from the calcin'd Metals.

These Baths have the Virtues of a Lixivium, being inwardly Diuretic, and externally drying in Hydropical Tumours and Ulcers, and may be imitated by a Lixivium of Vegetables, or Lime-Water.

5. Salso acid Baths.

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me-Was Baths of Sea-Water are most in Use 3 which taste bitterish and salt, with a Dryness and Acrimony, by which it absterges and dries all Uscers, Scabs, scal'd Heads, Itching and Leprose, Corns, Tumours and Pains of the Limbs. It kills all Insects, Lice, Worms; and we bathe in it for the Cure of the Hydrophobia: These also prevent all Putrefaction in Gangrenes and putrid Uscers, or venomous Bites. These salt Waters dry the Hands, and make them rough; and for that Reason are good for Over-Fatness, and prevent Cachexies and Dropses.

The salt Waters do not only dry and astringe; but heat, discuss, absterge

and cleanse.

They

They cure too great a Plethora of Nutriment, or Hydropical Serous Tumours, according to the old Rule, Sale, Sole, & Siti curatur Hydropisis.

Salt-Waters are good for all Inflammations in Baths, as the Gutta Rosacea, the Heat of the Feet, Inflammations

of the Stones.

It discusses the Inflation of the Womb, and is excellent in the Cure of the

Tympany.

If the falt Waters be boyl'd and pump'd, they cure all Catarrhal Effects, Deafness, Stupors, Tinglings, Pains of the Head, Spasms, Resolution of the Nerves. Optimum est in aqua marina assidue nature, was Ætius's Advice for the loss of Smell.

It helps the Dimness of the Eyes; being warm'd, it is proper for Clysters in Cholicks, Sciatica and Cholera 3 and in the Mola Uteri, let Women swim in falt Water, or apply the Steam of it in which Uterines are boyl'd.

The Spuma Matris used for Warts and other Diseases, is only the Sea-Salt naturally coagulating on the Rocks.

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Pliny observes the Saltness of Rains; and that in Autumn they are most salt;

but least in Winter.

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Pliny

Inwardly, Salt binds in Diet, by drying; but being us'd more plentifully in Medicine, it purges, by pricking the Intestines; and a large Quantity of it vomits: It purges by Vrine, as all Salts do; and is very useful in Clysters. In Diet it promotes the Flux of the Saliva; and thereby, as well as by promoting Fermentation, it helps Digestion. The Sea-Salt which is dissolv'd in the Bath-Waters, naturally excites Appetite, cleanses away all hot Humours from the Liver, Spleen, Womb, Kidneys and Bladder, and maybe usefully drunk all Summer in Nephritic Cases, for the Ardor of Urine.

They are usually prescrib'd from the j. to the iij. and so they help the Dysentery, kill Worms, cure the Puttefaction of the Mouth and Gums: They
also cure the Flatulencies and the Pituitous, and Serous Cacochymia's in the Ca-

chexies and Dropfies.

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They cure the Arthritic and Gouty, being used in Baths, and drank; and very much strengthen the Limbs, and preserve from the Cholic. They stop

the Gonorrhea, and Fluor albus.

Salt-Waters are much commended for the Asthma, and they cure the Inflations of the Womb, bring out the Mola, or Dead Child. They help the Hypocondriac Inflations, cure the Humidity of the Eyes, the Oedemata of

the Limbs, and all their Pains.

All Salso-acid Medicines by their cleansing Faculties are proper for all the Cacochymia's, whether hot or cold: For Salt neither heats or cools much; but preserves the present State of whatsoever Liquor it is mix'd with; but salt Waters are not without some Inconveniencies: For the Sea-Water offends the Stomach, by its Acrimony: Wormwood much helps the Sea-sickness. The Sea-Water much offends the Eyes. Salt Liquors purge, and salt things fill the Head, and dispose to the Scab, corrupt the Blood, breed a Dysentery, or Consumption and Scurvy, as is manifest in

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Mariners; but Navigation is commended for some Diseases; as, Consumptions, Hamorrhages, Leprosies, Dropsies, Apoplexies, a cold windy Stomach, old Pains of the Head; and these it may cure by causing Vomiting. Sailing into Ægypt was prescrib'd, not for it self, but the

Length of the Journey. We may easily imitate these Waters by dissolving Salt in hot Water to a demi-Taste: For Baths, or Drinking the Sea-water will yield the best salt Bath 3 and the next to the Seawater, is the Steam of the boyling Salt at the Wiches, which cures many Pains

and Humours.

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There is a great Saltness both in the Bath waters at Bathe and Buxton. The Degree of Saltness in both of them seems much alike. If there be any diffetence, I think Buxton more falt than

the other.

Tho' Dr. Lister found not 3 ij. in two Gallons of the Water, yet if I were to make an artificial falt Bath, 3 ij. of common Salt or Sal Armoniac, seems not too much; and the Use of these seems very pro-

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profitable. The Waters of Apani are so falt, as out of them they make common Salt.

The salt Springs contain from a 4th to a 9th of Salt; and the Sea, as Pliny affirms, is one Part of Salt to four of Water. He commends Sea-water in the Quartan. He commends the Thallast Someli for purging pleasantly, which is made of equal Parts of Rain and Seawater and Hony-botled.

Ætins commends swimming in the Sea-water for the Elephantiasis, and for the Itch, twice in a Day, before Dinner

and Supper.

6. Salt Nitrous Waters.

They taste salt, bitterish, and earthynauseous; by which they become Purgative and Diuretic, as all Salts be; and thereby cleanse away Gravel in all

Nephritic Cases.

These are proper inwardly for all the hot Cacochymia's, to carry off the sharp salt Choleric Humours, without Gripes or raising any Effervescencies, to occacasion new Desluxions in the Gout, Asthma's, Coughs, Instammations.

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There is a Roughness in all the Wa-Epsom ters at Epsom and North-hall, and other north-English Purging Waters, which will hall Was curdle Milk; and this therefore cools all ters our rarify'd Humours; and they streng-then the Stomach and Viscera by it, and the Gums.

Nitre dissolv'd in cold Water makes it colder and fitter for the cold Immerfion; and by the Solution we must imitate Nitrous Baths to cleanse the Skin. The Ancients us'd to rich it with Nitre

in their Baths.

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Niter, Ashes and Bitumens make the

Waters of a bitter Taste.

We observe a Bitterness in Ashes and Soot, and all burnt things. Sweet becomes bitter by Heat; and the Blood does bilescere, or become bitter, when over-heated.

· In every Gallon of Water there is fix Drachms, or eight or ten of the Sediment, which is compounded of a stony Matter, and common Salt, and Nitre Cal-

carium.

In Feverish and Choleric Heats these VVaters are most agreeable, and in all De-C 4

Defluxions on the Head, or Breast, and Hydropical Tumours with a Hectick, and the Schirrus of the Viscera. They are proper in all Inflammations; Stone, Scabs, Tettars, hot Cholicks, and all hot Pains; Scorbutie Rheumatisms, Nephritic Pains, Heat of Urine or Suppression, Jaundies ; In Distempers of the Head; as, Mania, Melancholia, Head-Aches, Vertigo, in the Itch and Binding of the Body.

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These Nitrous Purging Waters have a mix'd Salt of Nitre and common Salt,

by which they purge.

The artificial bitter Salt of Epsom VVaters is bitter, and hath a remarkable Pungency. 3 j. dissolv'd in th j. of VVater, imitates the Taste of the natural Water. It is usually prescrib'd 3 \u03bb. to 3 j. dissolv'd in thiiij. of any Liquour.

This Water is proper for Vomiting and Heat in the Stomach, dejected Appetite, Cholicks at the Stomach, Heart-Burning, Hypocondriac and Hysterical

Inflations, Worms.

This is injurious in Fevers, Green-sickness, Paralyticks, Women with Child, the

the Hydropical, where the native Heat is decay'd, and in all violent Evacuations and Hamorrhages; as the Cholera Morbus, Suppression of Urine from great Stone or Ulcer.

7. The Acid Waters.

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These taste cool, and sowre or sharp, by which they cool, penetrate, absterge, excite Appetite, cleanse the Kidneys; they make lean, and keep long incorrupt; and they resemble Vinegar in Virtue, and kill Worms, and resist Putrefaction.

The Acid seems to be from Sulphur, and may be joyn'd with Nitre, Salt,

Copper or Steel.

We find the German Spaw-Waters to taste sharply Acid, as if it were sulphurated, which none of our chalybeated Waters do.

VVe imitate this fort of VVaters by Gas Sulphuris, whether for outward or inward Use, putting so much into Foun-

tain-VVater as to make it tart.

Vitruvius commends Acid Waters for curing the Stone. VVe by Experience find, that Vinegar dissolves Egg-Shells, Lead.

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Lead, Copperas, Margarites, and burnt Flints; and this explains the dissolving Virtue of Acids in soft Stones. Outwardly we use Fomentations of Vinegar for the Gout.

8. The Styptic VVaters, as such, do strengthen the Viscera; and the Ancients call'd them hard or rough VVaters, and believ'd them to be from Alom; but our Moderns call it a Nitrum Calcarium; and such is the Nature of our Well-Waters, and all our Bath-Waters have a Roughness.

There are these several sorts of rough

Waters.

1. Petrifying Waters which are called Gypseæ, which contain a Gypsum or Lapis Calcarius; as the Albulæ in 1-

taly.

Mineral Stones have an earthy, drying stopping Faculty. They look whitish, and have a thick Sediment after
Evaporation: They stop Sweat, contract
the Skin, and all the Vessels and Pores,
and stop Diarrhæa's and Diabetes's; but
are not commonly wholesome: For Gypsum it self has a drying choaking Faculty,

culty, coagulating Humours, stopping the Urine and Breath, and produces Swelling in the Throat; but they cure Ulcers.

Cool Waters from Marble are compounded for curing Sterility in those Women who miscarry through Laxity of the Uterus, and a hot and moist Fluxion.

Dr. Lister observed in 60 th. of a petrefying Water 3ij \u03b3. of the Lapis Calcari-

us, and 3 j. of Salt.

2. The Aluminous Waters cool and astringe without Acrimony. The Aluminous Taste strengthens the solid Parts. by its Stypticity, and stop all Evacuations of Humours.

All Astringents are of an earthy Na-

ture, cool.

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In Baths these are proper for the Itch, Leprosie, Ulcers, Aptha, Ulcerate Gums, and Tonsilla, Hamorrhoides, Herpes, Uleers of the Wombs.

They stop all Hamorrhages of the Lungs, Womb, Abortion, too much Sweating, and Varices, and Vomitings.

But these hurt the Breast, as all A-stringents do, both in drinking and bathing, particularly in Asthma's and Peripneumonia's; they injure the Voice, and

those that be very thin.

Aluminous Waters curdle Milk by their Stypticity, and so they may alter, six, precipitate, or curdle the Humours of Animals. They will not bear Soap, but six on the Salt, and separate the Oil from it, by which they find they will six all the Animal Volatile Salts; and the Spirit of Urine turns Alom-Waters milky. By these Experiments we know Alom-Waters, and demonstrate their Virtues.

3. The Vitriolic Calybeate, which are

Astringent with an Acerbity.

These by their Stypticity strengthen the Viscera, and are therefore good in Fluxes, Spitting of Blood, Cholera, Whites and red Diabetes, Abortion, Nocturnal Pollutions, Obstructions of the Spleen, Liver, Cholic, Hestic Fevers and Quartans. They cure Vomitings, Stoppage in the Kidneys, Womb and Bladder.

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They cure the Hydrophobia; for which let them drink through a Cloth, that they may not see the Water: They are also proper for Scabs, Ulcers, Consumptions; and cure all the hot Cacochymia, the choleric, salt, viscid, muriatic, vitriolic, and putrefactive State of our Humours; but they are injurious sometimes in Fluxes of Humours, in Coughs, Asthmás, Gouts, Schirrhus's, and Fevers.

These Chalybeates are most specifically proper for the Stomach and

Spleen.

These have a mix'd Quality, and operate according to the Virtue of the prevailing Quality of the Mixture: For the Chalybeate heats and opens, tho' the Waters cool.

These we imitate by putting 3 j. of Vitriolum Martis to two Quarts of Water or 3 j. of Dr. Willis's Steel infus'd

into a Pint of Water, thus;

R. Chalibis Willis 3 j. fiat Infusio frigida per triduum, in aq. lactis th. j. colaturæ, capiat coch. j. in haustu aquæ quolibet mane mane per mensem unum vel alterum in Æstate.

The Water in which Gold is quenched, leaves some Impression from the Heat of the Fire, but no Metallic Vitriolic Taste; neither does Silver heated and quench'd.

The Chalybeate Waters are from the Pyrites, and are good Eye-Medicines, being Acrid and Styptic in Taste.

Raddle, Bole, Lapis Hamatitis, Smirum, Schistos, have something of the Iron Tincture: Lapis Hamatitis gives a dry cooling styptic Quality to Water: Lapis Schistos is found in Iron Mines.

All Waters that look red, or tincture the Earth with a Rust, have another.

Other Waters incide, and are Diuretic, abstersive, and differ according to the Metals amongst which they grow.

Marle makes Water styptic, and makes Cyder into which it is thrown of a Vitriolic Taste. Marle-Waters bind much.

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Our falt Springs are observ'd by Dr.

Lister to turn with Galls.

4. The Copper Waters have an Acrimony with an Acerbity, as other Waters have.

Copper Waters are the Atramentose call'd so by the Ancient Writers, Omnis Atramentosa aqua tenet Æris naturam.

They are very styptic and hot, or acrid; They dry, thicken and contract, and are unsit for drinking; They corrode the Stomach, and purge by their Acrimony.

Calcitis is the Stone; Calcanthum is

the Rust of it.

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These Waters astringe less than the Iron; but have a Virtue of Healing and drying, and cleansing by their Acrimony. Outwardly they cleanse the Leaprosie, discuss Oedematous Tumours, stop Bleeding both by the costic and styptic Quality; and by the same they cure the Scab and scald Head.

Ætius recommends Copper-Waters for the Mouth, the Tonsils, Uvula and Eyes, when ulcerated: They are also

use-

useful for the Diseases of the Breast, Senses, Sterility, dejected Appetite, Fluor albus, Scab, Asthma, Ulcers, Dropsie, Aptha, Flatus,

Chrysocolla grows in Copper-Mines, and partakes of that Mineral; as, Lapis

Armenius and Lazuli do.

By these the Waters may be impregnate: Chrysocolla may be wholly dissolved in Water, and give a hor drying abstersive Quality to them, sometimes offensive to the Stomach.

The Factitions Borax is made from Nitre and Urine, agitated in a Copper Mortar. And this is the Factitions Chryso-

colla, Dioscorides.

Chrysocolla is the Rust of Copper and Gold, as the other is of Lead, Ærugo of

Copper, and Ferrugo of Iron.

We may imitate Copper Waters by putting some sort of the Vitriol to them in such a Quantity as may give the Tastes of the Natural Waters impregnated with Copper, which is about 3 j. or 3 ij. to every Gallon of hot Water.

Punice found in any Waters is a Sign

of a Copper Mineral.

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All purging Waters have either Nitre, or Salt, or Sulphur, or Copper or Bitumen in them, and most a Mixture of them, and are proper for different Cacochymia's.

Cardan commends Copper Waters for the Atra bilis, if they have a Mixture of Gold, and are moderately hot, as Viter-

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In Italy and the Piperina in Germany these purge, that Humour; these clear the Senses, conduce to Cheerfulness and long Life.

Dr. Grew affirms, that Spirit of Nitre affus'd to the Calamy-Stone, and both put into Water, give a very acerb and very bitter Taste like the Chrystals of Silver,

That the Taste of Copper is bitter, in-

grate, Vitruvius affirms.

5. Lead-Waters are very cooling: For Water agitated in a Lead-Mortar, and any Ointment in the same manner,

becomes more cooling.

These Waters dry Ulcers, the Leprosie and Cancers, and the Piles, and are proper for all those Cases in which we use Lead-Medicines; but they are estructured freem'd

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Saccharum Saturni disselv'd, may imitate these Waters, about 3 j. to every Gallon; but the Taste must determine the Quality, till we have exactly adjusted the Strength of the Artificial and the Natural Waters by the Similitude of Taste.

The Water at Holy-well is believed to come from the Lead-Mines, and to receive its extraordinary Coldness from thence; by which it becomes a famous cold Bath in many Diseases.

6. Quick-silver Waters.

Such have been observed in Spain at the River Minium, where the Waters are hot and sulphureous, with a native Minium. These Waters are impregnate with Sulphur and the noxious Vapours of Quick silver. The factitious Cinnabar may probably imitate the native; because they both contain Sulphur and Quick-silver; and either may be boyled in Water to supply these natural

ral Baths. These are used for Scabs and all Ulcers, and will do whatsoever Sulphur and Quick-silver can effect: But these Waters are describ'd as acrid, by Baccius, who recommends them for the Itch Leprosie and pocky Ulcers.

7. Antimonial Waters. Those are reckoned amongst the Steel Waters, styptic and astringent; and must be also

accounted fulphureous.

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How far the Decoctions of Antimony, or the Preparations of it may imitate the Natural, may be easily try'd.

Pliny recommends Antimony for a Me-

dicine for the Eyes.

impregnated by the Minerals of Gold and Silver. Those we cannot expect in our Country, where we can only quench Pieces of those Metals in saline Water, to which they only give an Impression from the Heat of the Fire, and probably rarifie the Air contain'd in fair Water; but they give no metallic or vitriolic Taste to the Water, as I have try'd by tasting the VVater; But the Metals must be purely refin'd; but the natural

Waters must have a Vitriol, by which they are esteem'd useful to the Splenetic and heal Ulcers.

9. Tin certainly impregnates some of our Waters in England; but I have not any Account of their eminent Virtue, which must have the Medicinal Virtue of that Metal.

VVisidom as well as Kindness of Providence in preparing so many Mineral Medicines for the Use of the Diseased Part of Mankind. The great Creator only, knows the infinite Variety of Diseases, Constitutions, and the great Necessities of Mineral as well as Vegetable Medicines. Them he has prepar'd in as great a Variety as the Diseases and Constitutions themselves.

For which I need no other Instance to prove my Assertion than the Variety of the Baths and Mineral Waters I have mentioned; which are so eminently impregnated with Variety of Minerals, Salts, Vitriols, Sulphurs, Stones, &c. which evidently prove a distinct Nature

of every one of those Waters; and to apply

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the BATHS in England. 37 apply these, the great and wise Architect has requir'd no more of Mankind but to use his Senses to discover by their Impression how each Mineral Water affects their Tastes, Smells, and alters their Bodies upon Man's external Experiments made of them.

By these means our Reason, and Sense, and Experience directs us to a right Use of these Waters; therefore nothing can be more irrational, as well as prejudicial to Mankind, than to use any one Bath, as the narrow-Soul'd Physicians

do for all forts of Diseases.

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Nature seems so concern'd to unlock the Mysteries of her Chymistry, that by the Colours of some Waters we may discover their Contents, as well as by their Tastes.

Okre makes the Mineral Waters yellowish, Sandaracha, Stybium, Mehnteria, Molibdena, livid and raddle, reddish Nitre, clear Gypsum, whitish, the Sediment after Distillation. The Curious of this Age have tasted and observed their Colour, and Quantity, and made many Experiments with them to observe their

Virtues; but fince there are fo great a Variety of Mineral Tastes mixed in Bath Water, and many of them so volatile, as to evaporate upon Distillation, I cannot confide in these Experiments as certain Trials to discover the Contents of Mineral Waters; But in the curious Tasting of them by a Palate Experience and internal Preparations; for that Sense takes the Object in a perfect State; but after Evaporation, all the Volatile Mineral Particles exhale; fo that by that Means it is impossible to discover the true Contents of Mineral Waters, which have so great a Variety of Tastes, and Virtues, that scarce any Two have the same Mixture of Minerals in them.

By the Microscope we have in this Age attempted to improve the Knowledge of the Ingredients of Mineral Waters, by observing the Figures of the Chrystallizing Salts: And this Method may succeed well enough where there is only Salts dissolv'd in a Mineral Water, and that but of one fort; but fince most Waters have o-

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ther Minerals besides Salts, and frequently a Variety of Salts; such as the Microscopical Observations want a Name for ; and therefore call it Sal sui geelmeris lock Experisones

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For this Reason I should never trust the Microscope for giving a full and fatisfactory Account of any Waters, without an Appeal to our Senses of Tafte, Smell, Feeling, and many practical Experiments, both inwardly and outwardly. All the Advantage by Microscopes is, to confirm our other Senses, and help them to discover the Figures of the Mineral Salts which affect the Tafte.

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Concerning the right Use and Abuses of the hot Baths.

OT Baths both by being drunk or used outwardly, heat the Humours, and raise the Pulse, and quicken the Circulation, Agitation of the Blood, and its Compression by the Pulse, the Heat expands the Aerial Spirits contain'd in the Humours, which is the immediate Instrument of Digestion, Fermentation, and the Feverish Ebullition of the Animal Humours to produce the several kinds of Defluxions.

Very hot Water, and some Tincture from the Sulphur or Bitumen.

The VVaters at Bath have not only a confiderable actual Heat, by which they produce their Effects; but they have

have a Saltness to cleanse, as well as a Roughness, to strengthen. The Sulphur in them, has also particular Effects by its discussing Fator: And I remember the Cross-Bath Pump-Water tastes evidently Vitriolic.

The Roughness in the Water depends on the Nitrum Calcarium. The Saltness on common Salt, which is in double Proportion to the Nitre. The Lapis Calcarius is double in proportion to the Salts; but the other evaporates by boyling.

From all these sensible Qualities, we may deduce very easily all the Effects of the hot Baths at Bathe, as well as the Injuries they do when they are used im-

properly.

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agreeable to all Constitutions that are Pituitous, Serous, Cold, Flatulent, or have any Acerbity in their Stomachs, or Gachexies in their Bodies, or are very cold fat Constitutions. To all these Diseases of the sluid Parts the hot Baths are contrary, and effectually alter them.

we evacuate the Succus Nutricius by

fweating in these Baths.

Humours and relaxing the Parts, open all the Obstructions in the Blood-Vessels or Nerves, dissolving the scirrhous, serous, cedematous and flatulent Tumours and the Obstruction of the Chyle-Vessels in the Tumours of the Abdomen.

The Reflux of the Blood is promoted by these hot Baths, at the latter end of all Inflammations, of any inward or out Part, in the Varices and

Hemorrhoides.

4. The Secretion of Humours thro' their Glands is promoted by hot Baths.

First, In the Jaundice.

Secondly, In Hypocondriac Obstructions of the Spleen.

Thirdly, In the cooler Scrophulæ not

inflamed. Sunga tantua A sat to nois .

Fourthly, In the Secretion of the Animal Spirits through the Brain in Stupidity, their Expansion through the Nervesin the Palsie and Rickets.

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Fifthly, These hot Baths cure the Suppression of the Excrementitious Humours by agitating the aerial Spirits in them, as well as by opening the Pores by their actual Heat.

1. In a Suppression of Urine.

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Fifthly

drank to two or three Quarts: to which usually common Salt formerly or of late Sal Polychrestum, Sal Mirabile Glauberi, Sal Cathar& Epsom are added.

3. The Stoppage of Transpiration is immediately help'd by these hot Baths, and the Pains and Fevers depending on

it if used in the Beginning.

4. The Suppression of the Menses.

5. The Retaining of a Mola.

6. The Suppression of the Hamor-

7. The Tumours of the Limbs and

Anasarca are discuss'd by Sweat.

Sixthly, Hot Baths promote the Motion of the Animal Spirits through the Nerves and their due Expansion.

1. In Palsies, Apoplexies, Lethargies,

towards the latter End. and Hardy

2. In

2. In Blindness, or Gutta Serena, after due Evacuations. 1916 11501 vd bns 4:011

3. In Deafness, being pump'd on the

4. In Loss of Speech, and Taste, and

5. In the want of Appetite.

6. In Venere languida.

7. In Difficulty of Swallowing.

Seventhly, Hot Baths relieve all Pains depending on the cold Cacothymia's, or external Accidents; as Wounds, Bruifes, Fractures.

1. Old Head-Aches. 2. Pains at the Stomach. 3. Cholicks. 4. Tooth Aches, Ear-Ach. 5. Strangury, from the Gravel, and the Pain of the Stone. 6. Joynt-Pains; as, the Sciatica, Rheumatism, and old Gouts in cold Constitutions.

In all these Pains it eases very much, if no Fever nor Inflammation attend them, if the Fluxion of Humours be over, and the Body well cleanfed by bleeding and purging. Volume albitis

Eighthly, There is a deterfive Faculty in the Bath-Waters from the Salt and Lenthly,

Sul-

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tic

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the

Sulphur, by which they are also Diuretic; and by their Stypticity they heal all Ulcers.

As, I. A Varica and Pthysis.

2. A Dysentery and Tenesmus.

3. Ulcers of the Eyes, Ears, Stomach,

Mouth, Womb, Arms, Gums.

4. Ulcers of the Viscera, Liver, Spleen, Kidneys, Lungs, Ulcers of the Glands in the King's-Evil.

5. Gonorrhaa, or Ulcers of the Pro-

statæ, Elephantiasis.

6. The Itch and spots in the Skin.

Ninethly, Hot Baths cause a Revulsion of Humours, and so stop the Evacuations.

I. By Vomiting.

2. Diarrhæa's and Fluxes after strong Purges.

3. The Fluor Albus.

4. Incontinence of Utine thro' Weak-

Hot Baths turn the Circulation outwardly into the Skin; And in Poisons these Baths by rarifying the Humours and opening the Pores, occasion the Circulation to be enlarged more outwardly. Tenthly,

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Eleventhly, Hot Baths may be used in a depauperate state of the Spirits, depending on pituitous, serous, flatulent Cacochymia's, and in all Flatulencies of the Womb after Miscarriages.

Purging is proper for old Diseases affecting the Head, Nerves, and Joynts. The Top of the Head must be pump'd in Cephalea Hemicrania, Memory lost, Melancholy, Lethargy, Stupor, Deasness, Blindness. Let it be done in the Morning, and it is usually prescrib'd at Midnight for 20 Days, but in Spasms, Palses, Trembling of the Head and Hands, Pump the Neck and spinal Marrows.

This Pumping only agrees with cold Diseases and cold Constitutions; but for the hot Head no bituminous or sulphureous Waters do well; but the Aluminous and Fountain or cold Waters.

The End of the Spring and Beginning of Summer in the best time for Ba-

Bathing in hot Baths; because the Summer following continues the Pores open. Autumn Bathing occasions the Pores to be so open towards Winter, as to render all Persons subject to the Changes of Weather, and makes them sensible of Cold all Winter. And this let my Country-Men consider, who are used to the contrary.

Bath-Waters are best drank when most free from Rain; but the best time is in May: For the Waters heat, and cause

Transpiration.

Hot Bathing and drinking Waters is improper for hot Weather.

The Injuries done by the hot Baths

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Baths are over dry, heats body, and thickens their. Humours: Therefore they are unfit for Children, and delicate tender Persons, whose Flesh is easily dissolved by excessive Heat, which also over-drys and decays old Men, dissipating their languid Spirits; and all thin languid Persons are much decay'd by them; and the thin Hypocondriae are over-dry'd by

by their Heat, and made subject to Ephemera's, Fluxes and hectic Fevers. Wor

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2. Hot Baths are injurious to choleric Constitutions, by exciting intermitting

Fevers and Ephemera's.

3. This fort are injurious to all viscid Constitutions of Humours, which produce Rheumatisms, Inflammations and Pains during the Effervescence of Humours, and the Defluxions.

4. The Saltness of Blood is encreas'd by hot Bathing, which raises the Digestion of Humours, and promotes a vio-

lent Circulation of them.

But the drinking the Bath Waters is not injurious to these Constitutions; because they cleanse away the Choler, dilute the Viscidity, and wash away the Saltness of Humours.

6. The Putrefaction of Humours is promoted by hot Baths. For this Reason we condemn such Baths in Fevers intermitting and malignant, in the Hydrophobia, and Poysons and Pox. Some Minerals are dissolv'd in that Water, convenient for the Itch, Leprosie, scald Head, such as Salt and Nitre which kill Worms,

Worms and Lice that are the Effects of Putrefaction.

7. In a general Leanness tho'they spend the Succus nutritius; yet they open the obstructed Pores, and restore the Circulation to a Paralytic Member in an Atrophy of it.

In very great Fulness of Humours, hot Bathing occasions the Breach of a Vein, by rarifying the Aerial Spirits in

the Blood.

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If Thirst be troublesome, Bathing

encreases it, and Drinking allays it.

8. The Defluxion of all Humours is promoted by hot Baths, which colliquate or rather rarifie the Aerial Spirits in our Humours, and open the Glands through which they may flow. And for this reason we forbid hot Baths duing all Defluxions in Catarrhs, Gont, Asthma's or Pains; Inflammation and Cephalic Diseases depending on a Defluxion, Ephemera, or intermitting Fevers, and in all sorts of Inflammatious and hot Pains, with Fevers, as, Erysipelas, Phlegmons, Cholicks, Head-ach, Strangury, Stone, Gout, Rheumatism, Quinsie, Parotis,

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rotis, Inflammations of the Piles, Intestines, Stomach, Liver, Spleen, Kidneys, Phrenitis, Opthalmy, Inflammations of the Lungs, Pleura, Breasts of Women, Testicles of Men, and all running Ulcers succeeding them. All Ulcers and Inflammations receive Prejudice in the Beginning by hot Baths, and also by drinking the Waters very hot; but in the Declination, the Bath discusses the Inflammation and cleanses the Ulcers; but all necessary Evacuations ought to precede.

Hot Baths ripen all inward Imposthumes in the Lungs, Liver, Spleen, Kidneys, Womb, Intestines, Bladder. These Baths are injurious in all Putrefactions; as, Fevers, especially Hectics, Apople-

xies, Phrensies, Carbuncles, Cancers.

Hot Baths excite Venereal Pains, as all Fevers do, and make all Coughs and Catarrhs worse; for which we better prescribe cool Diet, Air and cool Drinks, which better agree with them.

9. In all Hæmorrhages these hot Baths are mischievous; as in that by the Nose, Womb, Anus, Vomiting, or piffing Blood, and

the BATHS in England. 51 and Coughing it up, or in the Hepatic Flux.

es of Humours out of the Body as Diabetes, Gonorrhaas, Abortions and too much

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11. They are mischievous in Evacuations of the Semen into the Cavity of the Body, as in Ascites, Dropsie of the Thorax, Hydrocephalon; they promote the greater Flux of the Rheum into the Cavities.

12. The great Expansion of Spirits producing Watching, usual to old Men, and salt Constitutions are made worse by Bathing.

13. The great Explosion of the Spirits in Convulsions is much irritated by the Heat of Bathing; as in Epilepsies, Hysteric Passions, and other Convulsions, Palpitations, Singultus, Coughs, Sneesing.

14. The irregular Motions of the Spirits in the Brain is promoted by hot Baths. In the Melancholia, Mania, Hydrophobia.

much rarified by hot Baths, in Vertigoes,

E 2 Afthma's

Steric Tumours.

Sulphur Baths, and the Bituminous offend hot Spirits by their strong Smell,

and fo occasion Fluxes.

Hot Bath-Waters cool by Accident, by opening the Pores, for evaporating of the Heat; or if they purge, or be very Diuretic, and have a Tincture from

Lead, Nitre, Alom.

Hot Baths after Meat occasion Rigors, Horrors, Fevers; and after Bathing we must not eat till all Disorders are over, and then the Stomach will not be disorder'd, nor the Head fill'd. Sleep after Bathing, and Abstinence digests and evacuates Humours, and composes the Disorders of Bathing.

Vini potus à Balneo tanquam venenum habendum, was the Observation of the old Physicians. A Horror at the Beginning of Bathing, which may be produc'd either by the hot or cold Baths, by the Constriction of the Pores, or Fulness of Humours, shews the Profitableness of

that Bathing.

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Those that have Fevers, Pains, Fluxes, or any great Evacuations are not fit for hot Baths; and we must take care of the Injuries of Weather after Bathing.

We are more secure in Night-Bathing, when after the Exercise of the Day, we bathe, and sup after Bathing: And the Gentlemen who go to Bath for Pleasure

may practife this.

The Time of continuing in the Bath, is an Hour, or according to strength; and after 7 Hours, the ancient Prescription was to return to the same. Young Men may bathe oftener than old Men; who are too dry; Once in a Day, or every other Day is enough for them.

The falt, nitrous, sulphureous, aluminous Baths purge, by which they cure Obstructions and Dropsies; and the Drinking the Water is necessary for 14

Days before Bathing.

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CHAP. III.

Of Temperate Baths.

HE more temperate Baths have only a mild Heat, like that of our Bodies, and are therefore less beneficial for cold Diseases, and less injurious to the Healthful, who use them chiefly to wash their Skins, to temper the natural Heat, to take off Weariness, and strengthen the Limbs; but these Baths are frequently prescrib'd by the Ancient Phyficians for Preservation of Health after Exercise, in an empty Stomach; and after a Stool in full strength; and they ought not to sweat after them; but they were dryed and anointed, and eat after the Disturbance of the Bath was over; and a regular Diet was used for fome time after Bathing, avoiding Repletion of Meat or Drink, too much leep, Watching, great Exercise, Passi-

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ons, Injuries of the Weather; after Excess and Venery, they avoided Bathing, and after Bathing avoid Wine, which offends the Head.

But these Baths have many Physical Uses, besides Cleanliness, and Beauty, and Pleasure, and are observed to be useful

in the following Cases.

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Tepid Baths moisten and warm; if more tepid, they cool and moisten; if more hot, they heat, and moisten less.

Temperate Baths are proper for Children who are moist and hot; but all

Minerals dry them too much.

Wash the Infants after long Sleep,

when most empty, and rub them.

This cures their Coughs, stuffing in their Heads, their Scurf and Itching, and

breeding Teeth.

In the breeding Teeth the Ancients bathed when the Fever remitted, and prescribed Water-drinking to the Nurse.

Bathing Infants does Injury to their

Ruptures.

Since

Since old Age is cold and dry, by hot Baths we relieve them, which by their temperate Heat warm and moisten; and Wine is allowed them after Bathing, and then Sleep. Ut lavit, sum-

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psita; cibum det membra sopori.

Temperate Baths cure all hot Intemperies, and are proper for all the hot Cacochymia's, the bilious, viscid, vitriolic, corrosive state of Blood, especially if Nitre, Alom and Steel be dissolv'd in them, and are usually prescrib'd for the Choleric and thin Hypocondriac at the End of the Spring; but all hot Baths injure those Constitutions.

A Plethora without a Fever is help'd by Bathing frequently and long in these temperate Baths; and much Exercise is to be used before Bathing as well as Friction; and after Bathing anoint

with hot Oil in these full Bodies.

Dry Constitutions may bathe after eating, and that will feed them: They may bathe again after 4 Hours, and be fed with Asses Milk, and anointed with cool Oils before they be cloathed. The Ancients used this Method to cure the dry

dry Intemperies, and prescribed a convenient Diet, and Friction; and they cured a hot Intemperies, if joyn'd with a dry, by Water-drinking.

By Baths of temperate Heat we cure Ephemera's, which depend on Heat, Lassitude, or Cold; but if a Catarrh attend them, that is not convenient till the Declination.

In a Diary of many Days, after three Days, bathe, if no fign of Crudity remains.

Hectick Fevers require temperate and cooling Baths; and unless the Head be put into cold Water, bathing does them

no good.

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Baths are injurious in Fevers, if there be Pains, or Inflammations in any part, or the Fever be putrid. Sometimes in the Declination, after the concoction of Humours, they may promote Sweat. In these acute Diseases Rhasis condemns them. Nunquam vidi Balnea in aliqua dispositione febricitantibus esse utilia.

These Baths are useful in Hemicrania's, and all other Pains; as that of

the

the Spleen; and is very proper in the Declination of Inflammations, as in a Phrenetic, if that Disease has lasted long, and the Body be thin; and the same Bath agrees with the Lethargy in the Declination.

These are proper in Melancholic cases, in the declination, where they are to be moisten'd, or nourish'd.

In young Men and Lovers they help

the Melancholy.

After fourteen days the Pleuritic may

use it.

After the Inflammation and Pain of the Gout is over, and sometimes in the vigour of the Fit, when Watching, and Pain are excessive: But the use of much bathing relaxes the Parts, and excites a new Flux in all Pains and Inflammations, and Rheumatisms, by opening the Pores, and heating the Humours.

Temperate Baths help the passing both Urine and Stool, even in Fevers. In the Cholera they are good in the

declination, and for Diarrhea's.

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Dysenteries, Inflammations from Crudities, the Jaundice, and the Stone, the suppression of the Menses, and Strangury from a hot Cause.

They are proper for all Priapisms, and Inflations of the Wanb, and that dryness of it which causes Steri-

lity.

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It facilitates the birth for them that have hard Labour, by relaxing and

mollifying.

It brings away a dead Child, and Mola, and false Impregnation; especially a Bath of temperate Salt-Water.

For Poyson from Cantharides, we use

a Bath of Hydrolæum.

It cures all the Diseases of the Skin,

Itching, which Opium gives.

It helps Ulcers, Scabs, Bruises, Strains, Pimples, wounded Nerves, after the Flux is over, and all Heats of the Viscera, and several Parts, by exhaling the fuliginous Vapours thro' the Pores.

Bathing cures Watching, and causes

Sleep.

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Emaciate Limbs must not sweat, but be pumped, or wet with the Water.

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These Baths help weakness of Digestion, weak Memory, Sadness, Apoplexies, Palsies, and Tremblings after the Flux is over. It cures the Scurvy,

and corroded Gums.

In short, these Baths open and discuss by their heat; they promote the digestion of the Stomach, the distributing of the Nourishment, the circulation and digestion of Humours, the secretion of the excretory Juices, and discuss all Infirmities out of the Pores of the Skin.

Bitter detergent Baths.

We may make these Baths of Marine-Water, and impregnate them with Bean or Lupin-Flower, which is bitterish; or with Fenugreek, to cleanse the Skin, and bitter Almonds.

Briony-Root, or the Bulb of Narcifsus, are used for bitter deterging Baths; and N 8980

the BATHS in England. 61 and Bran is useful to cleanse as well as

Soap.

Anodyne Mucilaginous Baths are made of the Decoctions of Althea, Mallows, Mercury, Linseed, Fenugreekseed, Fleaban, Violets, Bran, Thistles, Chickweed, Duck-meat; to which may be added Narcoticks, Cynogloss, Poppy-heads, Henbane, Solanum.

Nutritive Milky Baths.

A Bath of Milk and Water twice in a Day, or else the Decoction of Sheeps-Head, or Capon-Broath, is proper for the Consumptive. Or else a Decoction of Barley, and sweet-Almonds in Water; to which may be added the Cold Seeds; or the Decoction may be made of the whole Gourd, to cool and moisten.

For the Leprosie a Bath of Blood is

commended.

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These heat, strengthen, dry, ease Pains, discuss Swellings, strengthen the relaxed Parts, cleanse Ulcers, heal Wounds.

As the Wine inwardly hurts the Brain, Nerves, and Joynts; so it makes amends to these Parts outwardly: And we experience the Bath of Muste to be more useful to the Joynts, by its fermenting heat; and the fervor of the Wine heats, opens, discusses, comforts the Limbs, and removes Pains, and is profitable to Oedematous Swellings and Inflations.

Oil Baths may be plac'd under this Title, useful in Convulsions, Pains, Suppression of Urine; the sifth part of the Oil being heated, and added to the rest; and this us'd in a Tetarus twice in a Day; but a long Stay in a Bath of Oil, does much spend the Spirits, as Hegineta observes.

and weary Members, ease Pains, Head-

the BATHS in England. 63 ach, and Wounds, with Convulsions, Colic, Pains, difficulty of Urine, Wounds of the Nerves, and hard Labour.

The Cross-Bath at Bathe ought to be kept of a more temperate Heat than it is usually manag'd, that it might have the Benefit above-mention'd; but it appear'd to me of a Heat above that Temper; and is made very hot, to answer the Effects of the hot Baths, by letting in hot Water thro' Pipes from other Baths: For which reason it becomes very injurious in all the Cases I have mention'd, and particularly to Plethoric hot Constitutions; and Hysterical Women.

I have sometimes observ'd it moderate; but generally it is abus'd, so that it cannot answer the Design of a temperate Bath, sitted for healthful Persons, or the Diseases mention'd.

Absurdity practis'd there, which is the drinking the Water very hot from the Pump, to have more of the Mineral-Virtue thereby; for that Gas of the Mine-

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Mineral too much affects the Head, and causes Sweats, and is injurious to the Hysterical, Asthmatic, and all hot Constitutions.

Healthful Men may bathe according

to Custom in moderate Baths.

Trallianus tells us, that bathing after Meat does thin Bodies more good than Morning-bathing, if the Bath be of a moderate heat; such as that of Aqua-Dulcis.

Studying and Sleeping much is very

injurious in the use of Baths.

Bathing till the Parts begin to swell, nourishes them; but longer continu'd,

it wastes them.

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The Injuries done by the Temperate Baths are the same as by Hot Baths, but in a lower Degree; for if the Body be not prepared, Baths produce Fluxes of Humours, especially if there be any inward Inflammation, they are mischievous, or if there be a Plethoric Body, they may occasion an Asthma, Apoplexy, Vertigo, Convulsions, Pleurisie, Peripneumonia.

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If any inward Part be infirm, as the Lungs, Heart, Stomach, Liver, or any disposition to the Gout, or any other Flux, these Baths colliquate the Humours, and open the Glands or Pores to receive the Flux: It is like applying Fomentations before Evacuatives; these weaken the Spirits by Evaporation, and fill the Head, occasion the Epilepsie, Vertigo, and other Convulsions.

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These Baths ripen all Impostumes, and are therefore dangerous in Obstructions of the Liver, Consumptions, weak Kidneys; and they promote all unnatural Evacuations, as Hamorrhages, Whites, Gonorrhag's.

In the time of the Plague they occafion the Infection to be more easily taken, and prepare the Humours to receive any other Infection.

Hysteric Women ought to abstain from bathing, which fills the Head.

The Asthmatic receive much prejudice by bathing; it ripens the Tubercula in the Lungs.

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CHAP. IV. ideal and the

Hor Baths were only preparatory to

Of Cold-bathing; the Benefits and Injuries of it: To which is adjoyn'd an account of the Bath at Buxton in Derbyshire.

THE use of Cold bathing is very Ancient; for Pliny relates that Carmis, a Massilian Physician, condemned the Custom of Hot bathing, and persuaded the Romans to bathe in Cold Water; in the midst of the Winter, Months during the greatest Cold, he dipt the fick in the Lakes of Water. Videbamus senes consulares in oftentationem usque rigentes.

This Cold Demersion was used in Augustus's time, by Antonius Mysa, and his Brother Euphorbius, to astringe the Pores, to unite the Heat, and to strengthen the Limbs; and Galen was so much of their Opinion, that he thought the

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Hot Baths were only preparatory to Cold bathing; and on that, the greatest Benefit depended.

Bathing in Rivers, and the Sea, was most Ancient for Exercise, Pleasure,

and curing Diseases.

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A place for swimming in Cold Water was provided for in the Roman Baths, and was more Ancient than they.

The manner of the Romans was to conclude their Hot Bathing with the Cold Water; which shews the good Opinion they had of Cold Immersion.

Galen's Method of Bathing was thus; first they exercis'd in a Morning; then they enter'd the Laconicum, where the Air was warm or hot by the Steams of the Water, or Fire; and there the Pores are open'd, and they sweat; the tensity of the Skin relaxes, and the Humours more rarify'd to pass the Sudatory Glands, thro' which the Pulse being raised by the heat, or the less pressure of the external humid Air, propels the attenuated Secum.

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From the Laconicum they descend into the Lavacrum, or into hot Water, where they sweat as much as they please: And from thence they came to the Cold Water, that what was overheated by exercise or bathing, might there be cooled, and the Strength confirm'd by thickening the Skin, that the innate Heat might not transpire too much, and thereby make the Body cold; for Cold bathing constringes the Pores, and hardens the Body, as hot Iron is cool'd and harden'd by cold Water. By these it is evident, they invented the Hot Baths to prepare weak Bodies for the Cold. From the Cold Bath they went into the Tepidarium or Apodyterium, where the Air was tepid, and they were rubb'd from Sweat ; and anointed. Afterwards Meat and Drink, and Sleep were fcrib'd.

It was the Custom of the Germans to carry the new-born Child to a River, there to dip it in the Water, to strengthen the Body, and to try their natural Vigour; for if it were very weak,

the BATHS in England. 69 weak, it often dy'd; for which reason Galen condemns this Custom as barbarous and dangerous. This Custom he says is more fit for Beasts, to procure them a hard Skin, insensible of Cold; and he believes it not necesfary for Men to have a thick and hard Skin; for according to Hippocrates's Observation, a rare thin Skin is necessary for those who transpire out many hot Vapours and Fumes; for if they be retain'd, the Body suffers by them: And a thick Skin is useful against the Injuries of the Weather: Both Excesses are to be avoided; the Skin is not to be thicken'd so far as to hinder transpiration; or to be kept so rare, that by all Accidents of Weather it may be much affected.

Virgil takes notice of the Custom of bathing Children in cold Water, in

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Durum à stirpe genus natos ad flumina primum,
Deferimus, sevoque gelu duramus & undis.
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This is the Method Galen gives for Cold bathing, for the preservation of Health in Persons fully grown, for strengthening the Limbs, and thickening the Skin against the Injuries of Cold, he advises this Method in the beginning of it, in the hottest time of the Year, in the middle of the Day, and in fair Weather, when the Water is not perfectly Cold, but Tepid, and the Person be fasting and empty, then he must use this Bath, having first exercis'd, to excite a natural Heat, to resist the Coldness of the Water: And after Exercise, and Friction, let him demergere into Cold Water. The Demersion ought to be sudden, and not gradual, to preventa Horror.

The Person who must be us'd to Cold Water, ought to be in the midst of the fourth Seven Years, in perfect Health, and to be well rubb'd with Linnen, and after well rubb'd with Oil. The first time the Water must be Tepid, not very Cold; but the fecond time he may use it very Cold;

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and at his going out let him be rubbed with Oil till he is very hot. Continue this Three or Four Days; then after an Interval, if he approves of a Second, but not a Third bathing for the same time.

They stay a moderate time in the Water who come out well-colour'd after Friction; but if they be less warm, and pale colour'd, they have staid in too long, which must be avoided.

After Clothing, let the Person rest an Hour at least, and then eat more than he drinks; for after this Cold Immersion, the Appetite increases, the Thirst abates, they concoct better, their Muscles are stronger, and the Skin is more hard and dense.

These Baths unite the Heat, turn the fuliginous Vapours into Sweat, excite the Expulsion of the Excrements, and loosen the Body: It cures Lassitude is used by intervals, and the Heat occassion'd by travelling in the Sun; the Caninum appetitum ex immodica transpiratione.

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Hippocrates gives us this Aphorism

concerning Baths.

A Salt Bath heats and dries; a Hot Bath extenuates the Person that is fasting, but heats and moistens him that has eat: And Cold Baths effect the contrary. By which Aphorism we perceive he knew the Virtue of Cold bathing, that it warmed and hindred the extenuation of our Body when empty, by closing the Pores, and restraining the evaporation of our Aerial Spirits; but the Cold Baths cool and dry them that have eaten: It cools by checking the Fermentation of the Humours, and their rarefaction: It dries by repelling the nutritious Humours from the Skin, as Hot Baths are said to plump it up by relaxing it, and rarefying the Humours contain'd in the Veffels of it. It black with the way were

From Hippocrates's Aphorisms about the use of Cold Water in Fornentati ons, we may learn the Benefits and Injuries of Cold Water; for Fomentations

tions are bathing particular Parts

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This is the use of Cold Things, or Water; we must apply them to the place that bleeds, or about them; and they may be used to extinguish the ardor and burning of Inflammations, which have a Sanguine Colour at the first, but if the Inflammation have continu'd long, it causes a livid Colour: It also helps an Erysipela not ulcerated. but is very dangerous to them that be ulcerated. He also recommends Cold Water to foment the hot Tumours, and Pains of the Gout, or Joynts, which are without Ulcers, and for Convulsions. In these he prescribes the affusion of much Cold Water, which mitigates the Pain, and extenuates the Part; and a moderate Stupor allays the Pain.

By these Aphorisms we are plainly taught, that the Cold Baths may be profitable for all Hamorrhages, Instammations, Erysipela's, Pains, Gout, Convulsions; and he deals thus Ingenuously in giving an account of the Injuries

of

of cold Fomentations: And the same are of cold Baths.

Cold is injurious to Ulcers, for that hinders the Evacuation of their Sores, and the Nutrition of the Part. It thickens the Skin by contracting the Parts.

Cold hinders pain'd Parts from Suppurating, by checking the Flux of Blood to it. It produces Livers or Blackness in the Parts if too long continu'd, by stopping the Circulation of the Blood, and Transpiration of Vapours. It occasions Febrile Rigors, from the Irritation of the Nerves, by hot Vapours retain'd in the Body. It occasions Cramps from the same Cause; and the Stoppage of the Circulation thro' the Muscles.

All these inconveniences happen in Cold Bathing, which I will give an Account of.

He says they were Aluminous, Sulphureous, and that by their Nitrous Salt they cleanse Ulcers; and that they were drank

drank the first daythree Hemina's, viz. thirty Ounces; the second Five Hemina's; the third Six Hemina's, to purge and cleanse: They promote Sweat and Urine, stop Bleeding, strengthen the Parts, stop all Fluxes of Women and Men, heal the Ulcers of the Bladder and Kidneys, prevent Abortions, Fluxes of the Belly, Laxity of the Stomach, Vomiting; they excite Appetite, cure all hot Intemperies, an ill Habit of the Body, and Dropsie, discuss Flatus, and cure Cholicks.

Gallen mentions the Injuries of the Albulæ, that one by Stoppage of the Skin fell into a Fever by the use of them: And tho' they be eminently petrifying Waters in their own Springs, yet they produce no such Effect in the

Bodies of Men.

Retins commends Cold Baths for curing all Diseases depending on Desluzions of Humours, especially if they have any Medicamental Taste, viz. from the Minerals (of Lead, Iron, Alum, Nitre; for these are all of them the Cool Baths, as Bitumen, Sulphur, and Salt make the Hot Baths.)

He commends the Albula to be drank, as very profitable against all Defluxions.

Calius Aurelianus commends Cold bathing in all Fluxes of Blood in the Asthma, and acquaints us with Asclepiades's Opinion, that Water-drinking and the Pseuchrolusia were necessary for

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the preservation of our Health.

Thus far I thought necessary to transcribe from the Antient Writers, to shew their Opinion and use of Cold bathing; and from hence I suppose our English Physicians did formerly direct the use of the Cold Immersion in England. Such I must call the bathing in St. Winifred, St. Mungus, and Buxton Baths, by which many particular Diseases are cur'd, or the Health preferv'd: But the Niceness and Effeminacy of this Age, has much neglected their Use; and the reason of this may be the absurd Advice given to Patients, to frequent the Baths at Bathe for all Diseases; and the use of them will render all Persons more Effeminate: But I hope all prudent Men

Cold Baths in England may be di-

stinguish'd into Two Degrees;

First, The extreme Cold, such as that at St. Winifrid's-Well, and the other at St. Mungus-Well, in York-shire, near Knaresborough. The Experience of our Countrymen has approved of these Baths,

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as very useful in the Rickets, and many other Diseases, which depend on Transpiration in too great a measure; and the High Fermentation, the quick Circulation or Digestion of Humours, or the frequent Defluxions or Evacuations

of them thro' the Glands.

The Second Degree of the Cold Baths is the Bath at Buxton, for that being one of a Milky Tepor at the first feeling, and by being long felt, renders the Body more cold and shivering ; and by this chilling of the Body I may easily infer, that tho' it has an actual Heat, and boyls up with Bubbles, as the Baths do at Bathe, yet it has not a Heat equal to the Rarefaction and natural Warmth of our Humours; and for this reason I cannot but reckon it as one of the Cold Baths: And a most excellent Contrivance Providence has shewn in it, by giving it so much Heat as to hinder the fudden or violent Constriction of our Pores, so as to occasion Fevers or Defluxions, and to indue it with such Ingredients of Salt and Nitre, or Alum, as to cool, strengthen,

the BATHS in England. 79 strengthen, cleanse the solid Parts, and close up the natural Heat of our Humours, by constriction of the Pores.

The Effects of these two kinds of Cold Baths may very probably be guessed at, because these Baths have contrary Qualities and Effects to the Hot Baths, and therefore it is very just to affert, that where the Hot Baths disagree with our Patients, the Cold ones will be proper.

According to this Rule I will describe the Vertues both of the extreme Cold, and the Tepid Bath at Buxton; they all have the same Effects, but Buxton is more mild and safe, because

of its actual Tepor.

Children, Women, and old Men faint in the Hot Baths; but the Cold ones agree with every Age and Time; but the Coldest Baths agree best with young Persons in perfect Health, whom they make more robust; but they must be brought to the use of them by degrees; and the best time to use them is in the Summer, not in the Winter.

Salt and Nitre, or Alum, as to cool adT

The use of the Bath at Buxton being very safe, it is sittest for all insirm Persons to use sirst, before they try the colder kinds; for by the use of this, they may be safely and by degrees used to Cold bathing. And this is proper for Autumn-Bathing, to close the Pores against Winter, and after the

use of the Hot Baths.

The Constitutions or Cacochymia's in which the Cold Baths are most agreeable, are the Cacochymia's which are Hot, as the Choleric, which may be very much cooled, and altered by drinking of Cold Water, especially the Water of St. Ann's Well at Buxton, for that will cleanse away all the Choleric Sediments from the Stomach, Guts, Liver, and Blood; and by bathing long, check the Pulse and high digeltion of the Blood; for that does not occasion any Sweat after bathing, but we stay in the Bath till we are very chill, and then go to a warm Bed, and lie there without swearing, till we become dry and warm again.

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Hot Baths make the Pulse vehement, great, quicker, and by this the Humours are more attenuated, the Aerial Bullula in the Blood agitated, rarify'd, and by compression propell'd thro' the Glands of the Skin, because the Pressure of the external Air is much lessen'd by the Humidity and Heat of the Bath.

But in all the Cold Baths the contrary happens; the Pulse becomes slow, small, rare, languid; the Bullulæ in the Blood are more compress'd, and the external solid Parts shrink, and are constring'd, and all Evacuations are stop-

ped.

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Because of these Effects I inser, that the use of Buxton Baths externally and internally, are proper for all the Hot Intemperies of the solid Parts, and all the Hot Cacochymia's, viz. the Choleric, the Salt, the Viscid, the Muriatic or Corrosive, the Vitriolic or Melancholic and Putrid State of Animal Humours.

But as the temperate hot Baths cool by opening the Pores, and evaporating the Hot rarify'd Humours, or Aerial Bullulæ, Bullulæ, so the Tepid Baths, or moderate Cool Baths, a little stop the Pores, and for some time after the use of Cold Baths of that temper, we observe Persons to be warmer sensibly to themselves, as I have heard them to complain, from their Observation of

their own Temper.

But as the hotter Baths at Bathe do wonderfully inflame all Persons, and thicken their Serum; so on the contrary the coldest Baths produce a sull Stoppage of the Pores, and occasion a Redness in the Skin; and after they are put to Bed, great Sweats, Fluxes of Urine, and Stools; so that the use of the coldest Baths put all Persons into an Ephemera, and that occasions the Defluxions by Stool, Urine, and Sweat observed after cold bathing.

We ought nicely to distinguish between the permanent Essects of the Hot and Cold Baths, upon the sluid Parts of Animals, viz. the Blood and Spirits, and the Alteration which the use of them gives, by a sudden Evacuation, or stoppage of Transpiration;

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for the permanent Effects of the Hot Bath is the Volatilization of the Oily and Acid parts of the Blood, and the raifing the Digestion of our Humours, as well as more invigorating the Pulse and Girculation, and rarefying the Aerial Bullulæ or Spirits in an Animal, tho' for the present they evacuate some hot Particles, and by accident cool us, as is evident by using Hot Baths in Feverish Dispositions, Defluxions of Humours; and we observe all Hot Constitutions to complain of their Heat; so that Cold Baths, they heat by Accident, by stopping the Hot Humours from transpiring; but cool and stop the Agitation of the Aerial Particles; and they agree with Fevers, Hecticks, and all Het Constitutions depending on the over-digeftion of Humours.

The Reason of the Heat following Cold Baths, may be given from the hot rarify'd Particles being straitned from evaporating, which act like a Ferment in the Blood; or else may be explained by the Changes in Water upon its freezing; for the Vertuesi inform us,

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That Cold bathing cools the Humours appears by the following Instances, in

which Galen experienc'd it.

In a very hot burning Fever Galen advises as soon as the Signs of Concoction appear, if the Strength be strong, and a young Person, boldly to give him cold Water to drink; and it he be corpulent, and the Season hot and dry, to put him into cold Water, which he fays may be done without Injury; and thereby he will univerfally Sweat, and some Persons will have bilious. Stools: But if the Fever be mild, and the Strength weak, and there appear signs of Concoction, he advises the temperate hot Baths, and Wine: And concludes that of Fevers, as Fevers, Cold Water is the Remedy, unless there be a Putredo, an Obstruction of the Pores, a Fulness or Debility of Strength,

the BATHS in England. 85 Strength, or Stomach, or some Tumour in any Part.

He prescribes all bathing for Fevers in the Declination, not in the Begin-

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He gives the Cold Water to drink, as much as the Patient pleases, in all continent Fevers, by which all Sweat, Vomiting, or Looseness was produced; and this was the general practice in Continent Fevers, by bleeding, drinking Water, and Cold bathing. But in Lassitudes, heat upon Travels, Pimples, and Transpiration stopt, bathing in temperate warm Water was us'd.

In Hectics Galen affirms that the temperate Bath does no good, but the Cold, to which the hot Water only prepares them; and this he confidently prescribes, if there be no putrid Fever, or Inflammation of the Lungs; but he condemns the drinking Cold Water in Fevers, as injurious to

Hectics.

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The manner of bathing Hellics was thus; Let him be carry'd in a Sheet by Four Men, and dipt twice or thrice in the hot Water, and after let him be dipt in the cold once; then put him into other Linen, and dry him, and remove him to Bed; let him stay but little in the cold Water, and be dipt but once, and anointed with Oil.

All the Ancient Writers commend bathing in Cold Water for the Hydrophobia; and hence comes our Custom of Dipping Persons bit by Mad-Dogs in the Sea-Water.

Not only the frequent throwing of Persons into the Water may cure the odd Fancy against Liquids, but the Coldness may prevent the Fever attending that Venom; and as Salt outwardly is used to the Bites, so that Water may check the putrefaction of our Humours by that Poyson. In this Disease the Water at Buxton may profitably be drank and bathed in for one Month's time, till the Change of the Moon is over; for this Water is salt and

and styptic; by both which Qualities

it may be useful.

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That the Water at Buxton is profitable for the Salt Cacochymia, is evident by the cure of the Itch ; and Wiseman commends the swimming in Rivers for scabby Soldiers; the saltness cleanses the Skin from its putrid Ferment; and the stypticity heals its Ulcerations.

It is also observ'd, that the drinking of 3t. Ann's Water is useful for the Scurvy by its cleanfing falt Quality;

and it heals the putrid Gums.

These Salt-Waters at Buxton are useful in the Morphew, Scald-head, Tetters, and all other Diseases depending on external putrid Ferment; they may ease the Pains in the Venereal Diseases, for all hot Baths irritate them.

These Buxton Baths are useful also for the Leprosie, after general Evacua-

tions.

The drinking the Water, because of its evident Saltness, is good against the Worms.

The experiencing this Bath, and the two colder at St. Winifred, and St. Mungus,

gus, is not irrational; for the Cancerous Humour, whose Putrefaction they may probably more effectually check than any other Method yet known; for if these Cold Baths can check Putrefaction, theymust be used as well as a cool Diet, against this State. In a Putrefaction the viscidity of the Blood is destroy'd, and the Confistence of the Blood is made fluid, because the natural viscidity of the Cake being dissolv'd, the Liquor thereof cannot be made into Bullulæ, to contain the Aerial Spirits, and that gives the great languor in all putrid states of Blood, as the Scurvy and Malignant Fever; we commonly observe, that a viscid Liquor, such as Soap and Water, or new Beer, may be easily raised into Bladders or Bubbles, by mixing Air in it; but in stale Liquors the Consistence wants a Viscidity to retain the Air in Bubbles: And all Gangrenes, Cancers, and very putrid Ulcers, have a thin Sanies; we observe a Rheumatism Blood in the Cancerous; but that is only the Chyle coagulated by the Vitriolic Blood; notwithstand-

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ing that the Cake of the Blood often appears then putrid. And fince the Hot Baths increase all Putrefactions, the Cold ones may probably do the contrary.

Plato was cur'd of a Fever by an Ægyptian Priest, who order'd him a Bath of Sea-Water, as Diogenes Laer-

tius affirms.

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Cold Water is us'd in Kent for the cure of the Quartane, as some of that Country have informed me, standing

in it before the Fit.

A Bath of Tepid Water is useful for the cure of Ephemera's; and the Bath at Buxton is used by them that frequent it, the same Night they come thither, to cure their lassitude, heat, and thirst: I may therefore commend this Water in Ephemera's, to cool in their Declination, and to be drank in the beginning.

This Water at Buxton is useful in too great an Obesity, or Tumour of the Viscera; by its saltness it cleanses by Urine; and its stypticity externally shrinks

the Flesh.

The

The drinking those Buxton Waters may be useful in many Obstructions of the Viscera, as Jaundice, Obstructions of the Mesentery, Spleen, Kidneys, by reason of their Saltness; but their Stypticity makes them fitter for all Fluxes of Humours, in which old Authors most commend them: And fince the Hot Baths do that Effect of Deobstruction sufficiently, we may leave

Obstructions to their cure.

Ætius de seminis profluvio recommends bathing or swimming for that Infirmity, and affirms that the Cold Water cures all Diseases depending on Defluxion of Humours, especially if they have any Physical Quality, as the Albulæ in Italy, which being drank, are profitable to all Defluxions; and those he describes as Sapore subsalsa, & tactu lactei teporis; and there was a Mixture of Allum in them, as the old Writers gueffed, by their ftypticity, by which they aftringe all the folid Parts both outwardly and inwardly; and that renders them less subject to Defluxions.

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The Effects, Heat, and Taste of the Waters at Buxton being so like the Albulæ, I cannot but compare them with one another; and by Analogy to them, explain the Virtues of Buxton Waters.

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When they are drank, they must by their Humidity dilute the viscid Humours, by their saltness they cleanse away the precipitated Salts, or Sediment of our Blood, by Urine; and by their stypticity they stop the rarefaction of the Bullulæ in the Blood, and the violent agitation of the Aerial Spirits inclosed in them. I compare Blood to other fermenting Liquors, which have large Aerial Bullulæ contain'd in them after a demi-fermentation, which gives the briskness and pungency to such Liquors.

By the Taste we observe these Esfects of the Buxton Waters on both the stuid Parts, viz. the Blood and Spirits; and the solid Parts, or hollow Pipes, which contain the other; and we do from thence rationally infer, that they are useful in the following Defluxions;

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and Experience has confirmed the fame, in these following Species of Defluxions.

I. The Flux of Blood by the Nofe, Anus, Uterus, Vomiting, Spitting, Urine, and in the Hepatic Fluxes

Dysentery, and all Hamorrhages.

2. In the preternatural Evacuations of the Nutritious Humours by Vomiting, Loosness, Diabetes, Plyalismus, Gonorrhæa, Fluor albus, Abortion, weeping of the Eyes; in all these Buxton Waters are convenient; and in all incontinence of Urine, and in all Catarrhs and Asthma's, these Bath-Waters of Buxton may safely be drank and bathed in 3 and they most particularly stop too much Sweating by their ftypticity and coolness: They both thicken the Humours in the Glands. and constringe the Excretory Vessels in the Skin; and inwardly they, like other cool Diet, thicken or check the rarefy'd Humours and Air; for if Fluids be a Congeries of Bubbles, with Air included, the Matter we expire and transpire, (which the old Authors call another

other fort of Respiration) is some of those Globuli or Bullulæ, which are the Integrant Parts of Fluids; and the Air being rarefy'd by Motion and Heat, make the Bullulæ too light for the gravitation of the other Parts, and more sit to be forc'd out of the Animal Liquor, both by the Pulse, and Gravitation of the other Globuli, to which the Rarefaction of the external Warmth contributes, by weakening the Pressure on the Fluids in Animals.

That Aluminous Baths condense the Skin, is evident by the tanning of Leather; the Skin is frequently condens'd by the Blast of cooler Air, which occasions its Constriction by a fort of a Convulsion we call a Horror; by both these ways externally we may condense the Skin, and constringe the Pores

by bathing in Buxton Waters.

The density of Skin is known by its pale Colour, hardness, and its Pores appearing as the Skin does in Winter, like a Goose-Skin: They are difficultly heated by Exercise, and sweat little, and have no great Colour after it in

the Skin. If this Constriction be too much, we must cure it by Hot Baths, anointing with Dill-Oil, or that with Horse-Radish, with a soft Friction.

In Dropsies the use of Salt Water outwardly, and inwardly, such as that at Buxton, may do very well; and by the Saltness, to cleanse by Urine; and by the stypticity to strengthen, or heal the Lymphaticks, in the Ascites and Anasarca.

In the cure of the Motion of the Animal Spirits, the Cold Baths have the

Suc

Dr

these Advantages.

1. In Palfies they stop the Pores, and accidentally occasion an Ebullition in the Humours; that is, first by a subsidence of the Aerial Bullulæ, and after that by a kind of Spring natural to the Air, a Restitution or Expansion again to their Natural Vigour, Motion, and Extension, by which a Distension is made in the Nerves, and an Ephemera in the Blood; and by these means a De-ob-Aruction is made in the Nerves in Paralytic Persons; and this has been sufficiently experienc'd in the Palfie and Rickets.

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As to the Palsie, I heard a Relation by of a Cure done by my Ingenious Friend Dr. Baynard, upon Dr. Gold's Son-in-Rayn. Law, who told me a Story, the Particular of which I cannot well recollect, more than that a young Boy being Paralytic, with the loss of Speech, Sonby a few times being put to the Cold Bath, recover'd his Motion and Speech, when he had try'd all other Hot Methods, and the Hot Baths, without any Success. This was related to me by Dr. Gold himself at Bathe.

As to the Rickets, I have annexed the Letter of Dr. Clayton, concerning the Virtues of St. Mungus-Well, near Knaresborough in Tork-shire; and it seems to me that an Ephemera occasion'd by Hot bathing, does the same thing as a preter-natural Heat, or an Ephemera from an Annual or long use of Hot Medicines, which are Nervine. The cure of the Rickets and Palsie both by cold bathing, shews the Rickets to be a Species of the Palsie in Children, whilst they are increasing, which makes the Bodies unequally nourish'd, the

Pulse of the Arteries being very deficient in the Paralytic Parts, and the Humours unequally circulated, the Head is too big for the Proportion in Embryo's, because the Bones are made before the Muscles; and the Muscular Flesh does not so well increase in any Bodies, as in those that have due Spirits, to give a Stop to the Circulation of the Blood in the Muscles, which probably is the Cause of their Motion; and the Muscular Parts by Motion, Friction, Cold bathing, grow robust, plump, and of a due proportion to the rest of the Body; and for the increase of the Muscular Flesh and Strength, Cold Bathing is used at St. Mungus-Well. 1914 300 25

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In the want of Appetite, the drinking St. Ann's Well at Buxton may be useful both by the Saltness to stimulate and cleanse, and the stypticity to

strengthen the Stomach.

The effect of the coldest Baths may be try'd in the Gutta Serena, Syncope's, Deafness, in the loss of Smell and Taste, in Weakness of Erection, or Venere languida, in the Weakness of Swallowing;

the BATHS in England. 97 lowing; for if the Cold Baths can cure an universal Palsie, why may they not cure the Palsies of particular Parts, which

I have mention'd?

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In the want of Sleep, the Bullulæ of the Serous Humours which fill the Nerves, are too much expanded, and this causes the Vigiliæ: This elasticity of Spirits is abated by the humidity, coolness, and stypticity of Buxton-Waters, both drank, and us'd for Baths; and for this reason we bathe in them

going to Bed.

2. Pains depending on Inflammations, and Viscidity of Humours may be corrected or prevented by these Baths, as hot Head-Aches, Gouts, Scorbutic Rheumatisms, Pain at the Stomach, Cholic, Tooth Ach, Strangury, Stone, Quinsie, Inflammations of the Mouth, Toula, Tonsils, Gums, Glands about the Ears, Stomach, Intestines, Anus, and Hamorrhoids, Liver, Spleen, Kidneys, Phrenitis, or the Inflammations of the Spirits; Inflammations of the Eyes, Lungs, Pleura, Breast, Stones, Muscles, of which all the former

98

mer Inflammations are only Species's, which are distinguish'd by the Effects the Inflammation causes in each Part, the drinking and bathing in these Water, at Buxton, being the chief Remedy to prevent them, but not to cure them, unless in particular Circumstances.

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As to the Ulcers inwardly and outwardly, the Bath at Buxton being drank cleanfes and heals, a Vomica, Phthisis, Empyema, Dysentery, Tenesmus, Ulcers of the Eyes, Kidneys, Bladder, Anus, Viscera, Spleen, Liver, Glands, in the King's-Evil, the Ulcers of the Mouth, Throat, Nose, Ears, Gums, Stomach, prostate in a Gonorrhea.

3. The Third Species of Fluxes is that through the Nerves, and the Glands they arise from, as the Epilepsie, Hysteric Passion, Chorea St. Viti, Convulsion of Children, Palpitation of the Heart, Singultus, Coughing, Sneezing, Priapismus; in all these Cases the Coldness and Stypticity of the Water both drank and bathed in, as that at Buxton, may do good by cooling the Humours, and strengthening the Glands;

which

the BATHS in England. 99 and in these Cases the Hot Baths do Injury, and for that reason the Cold

Baths must be most agreeable.

4. The Motion of the Animal Spirits in the Brain, is best reliev'd by the coldest Baths, which considerably overcome the Animal Spirits, when too much rarify'd, by thinking, or Passion, or Fevers in the Maniac or Phrenetic Persons.

In Melancholicks the Vitriolick Water near Buxton may be most agreeable to drink, and the Bath to use outwardly for cooling the Humours, and strengthening the Spirits, by constrin-

ging the Pores.

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In this Bath we ought to bath for the Furor uterinus, and all kinds of Deliriums, to abate the exceeding Rarefaction and Motion of the Aerial Spirits included in the Bullula, in the

Nerves, and Blood.

5. The Animal Spirits produce the Flatuofity in the Nerves, when too much rarefy'd; and this Rarefaction is check'd, by drinking and bathing at Buxton, in the Vertigo, Tympanites, for which

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which we ought to bathe in Sea-Wa-

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ter, as the Ancients prescribe.

6. This Cold bathing is much commended in the Afthma; and in that Disease I and divers others have observed it useful. And I met with a Lady at Buxton, who had used that Bath for some Years, for an Asthma, and found benefit by it; and I find Calius Aurelianus has much commended the Pseucrolusia for the Asthma. And this is agreeable to my Notion, that it depends on an Ephemera, as a Symptom in the Nerves. But I cannot commend this Bath in cold Flatulencies, as that of the Uterus, and particular Parts: But for all Flatulencies depending on the Hot Cacochymia's, as the Choleric, Salt, Vitriolic, putrid, it feems very profitable, by cooling the Rarefaction of the Aerial Bullula, both outwardly and inwardly used. Those that be of a hot, bilious, and dry Constitution, have their Halitus, which pass by Transpiration less humid, but more acrid, and fumole, as as Orabasius calls them, and that renders

the BATHS in England. 101 Wa. ders them more subject to Ephemera's and Defluxions; and for those Hot

and Dry Constitutions Water-drinking is absolutely necessary; for all fermented Liquors agitate and rarefie the Bullulæ in the Humour, and cause Defluxions thro' the Glands.

7. Drinking Water in the Morning cools the Blood, prevents Defluxions, and washes off the bilious and salt Re-

crements by Urine.

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Drinking Water after Dinner cools the Digestion, and stops the high Fermentation and Windiness in the Stomach.

Drinking it at Night stops the Fever produced by the mixture of the Chyle and Blood, as it happens in He-

ctical People.

The Waters at St. Winifred's-Well, and St. Mungus, I never heard were proper to be drank, because of their excessive Coldness: But the Bath-Water at Buxton may be drank to two, three, or four Pints, without occasioning any Vomiting; but it will cause vomiting if it be drank ha-H 3 End and Chily, stily, because of its Warmth and Salt-ness.

The Injuries by cold Baths are the following; but I must except the Bath-Water at Buxton, because of its natu-

ral Tepor, from them.

Very Cold Water may do as much Injury as Hot Baths, tho' it strengthens and collects the natural Heat in strong healthful Bodies. It may extinguish the innate Heat, (that is, the natural Tepor arising from the Motion, and Mixture of our Humours) in Persons that are weak, infirm, or very old.

Cold bathing is injurious to Infants and Boys; for Galen observes, that it hinders their increase, and is not allow'd by him till 25 Years of Age; or the middle of the fourth seven Years. From this Observation I believe our English Physicians learnt the advantage of Cold bathing the Rickety Children, to hinder the growth of the distorted Part, and strengthen the Muscles.

der Persons; and those of a Cold Con-

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the BATHS in England. 103 stitution, or that have some of the Cold Cacochymia's, as the Pituitous, the Serous, Cold, Windy, or Acerb Hu-mours; and those who have not used it, must be brought to it by degrees, and not in the Winter-time.

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Since Cold Baths aftringe and stop Fluxes, as Cold Diet, Cold Air, and cool Liquors do, they cannot be convenient in any Obstructions of the Secretion of the Animal Humours, and therefore improper for all Tumours of the Viscera, as Jaundice, Tumour of the Spleen, Kernels, and inward Inflammations: And Calius Aurelianus dislikes it in Lethargies, because it stops the Passages. And he also condemns it in a Pthysis; and by Analogy it is easie to guess that Cold-Water-Baths stop more the suppression of Water, but may occasion at first a great Flux, by stopping Transpiration, and exerting an Ebullition in the Blood.

It may help in the binding of the Body by the same Accident, turning the Circulation inwardly; for as Hot Baths are used for Revulsion, as turn-

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ing the Circulation more into the Habit of the Body; so the Coldact contrarily to them; in other Evacuations suppressed, as the Menses, Hamor-Trhoids, Mola, Lothing, they are injurious; and in an Ascites they seem injurious, except the Water be salt.

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In the beginning of Fevers, or Defluxions of Humours, or violent Pains, they are dangerous; but in the Declination, or to prevent them, very useful; as in Pains of the Head, and a Phrenitis, Stone, Strangury, Gout, Rheu-

matism.

In a Tertian Cold Water is esteem'd dangerous; and it's known to be very offensive in all Ulcers.

It may produce cold Pains; but cures the hot ones, or those depending on the hot Cacochymia's, after due evacuation; but it seems improper in the Cholic-Pains, and in all inward Ulcers, cold bathing is improper, tho' the drinking the Water is useful.

Cold bathing is much condemn'd in the Epilepsie, or Convulsions, by occasioning a Flux of the Serum into the Nerves;

Nerves; but in many hot Inflations, it is evidently useful, the they be Nervous Effects, as in a Priapism, Asthma, Tympany, Mania, Melancholy, Vertigo, Incubus, and Hysterical Fits.

The Preparation for the Bath is to be by due evacuation of the Humours abounding in quantity, or purging, or altering their ill quality, to avoid the great Ebullition or Heat occasion'd by

Cold Baths at first.

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We may womit with St. Ann's-Well at Buxton, by drinking the Water haftily, to two or three Quarts; and this is useful in the Gout, Sciatica, Obstructions of the Mesentery, Spleen, Liver, Dropsie, Instations, Asthma, Melancholy, Epilepsie, Hydrophobia; in all these Cases Vomiting is by experience found profitable; and this may safely be done by that Water at Buxton.

Purging may be recommended in other full Bodies, by dissolving 3 \(\beta \) or 3 \(\beta \) of the Epsom Salt, or Sal Mirabilis, in the Water of St. Ann's-Well, which

is of it self a little laxative.

Nerves 5

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Retins orders that we should observe an exact Diet in cold bathing; and
it is safest when empty, for then it
cannot occasion so great a Flux upon
any insime Part. He advises it not to
be used after Venery, great Lassitude,
nor on a full Stomach; not after Vomiting, Purging, or any Weakness of
Spirit, or natural Heat; and that the
Person be twenty five Years old, and
be used to it by degrees; and at first
not to absolutely Cold Water, but that
which is Tepid: And by parity of Reason I may recommend Buxton Bath as
the best Preparative to Cold bathing.

He advises the Friction with Linnen, the Rubbing with Oil, and after that Exercise: Then to leap into the Cold Bath; and when he came forth, they rubbed the Body again with Oil, till the Skin was warm, and then gave

them Meat.

The Ancients anointed with Oil after Rubbing, to mollifie the Skin, and take away its Tension and Dryness, they stopt Sweats by it; and for that end used Styptic Oils, as Oleum Omphaceum.

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By Oils they defended the Skin from the Injury of the ambient Air; and for the same end it is probable the Indians paint the Skin.

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Disease, were only wash'd in the hot Bath, and went immediately into the Cold Water, and after were anointed; and those that were tired with a Journey, they anointed before and after bathing.

If Sweating be design'd, no Oil was used either before or after bathing.

We may imitate the Ancient bathing by putting our Patients first into a warm Bath, in a Tub of hot Water, in a warm Chamber, thence into a hot Bed, to Sweat and Sleep; and when he has returned to his natural Temper, we may put them into a Cold Bath, or a Tepid one; and after rubbing him with Oil or Butter, or use him to swimming in cold Water, or at the going out of the hot Bath, Perfons

fons are to be sprinkled with Tepid Water, if the Cold be offensive.

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My Ingenious Friend Dr. Baynard will in some time give us his Experience about Cold bathing, and how he prepares his Cold Baths artisticially from Pump-Water, Nitre, or Pond-Water, with Sal Armoniack, and Nitre.

He uses this Cold bathing to cure Hectick Fevers, Itch, Convulsions, Weakness or Tremor of the Limbs, Rickets, Palsies, Rheumatisms; but dissuades this Cold bathing in Epilepsies and Hami-

plagia's.

The particular use of this bathing he gave me in Writing three Years since, which occasion'd my Curiosity of reading Galen, and the old Writers on that Subject; and I cannot but believe that we had the practice of Cold bathing from the Romans, when they govern'd here, as well as the method of using the Hot Baths.

All that has been writ on that Subject is by the Greeks, and Romans long fince; only the Religious Men in our Kingdom have preferv'd the Practice of

of bathing at Holywell, and St. Mungus, and gave the credit of curing to the Saint's Merits, which may probably be accounted for by the natural Effects of Cold-Water.

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I was once inform'd of an old Catholick, who staying too long in St. Winifred's Water, died there, the extremity of the Cold extinguishing the natural Heat: Therefore these Cold Baths are only sit for Summer, and young Persons.

The old Writers believ'd that Cold Water gave Fœcundity to Women; and this is much ascrib'd to Holywell, and for that cause may be frequented in hot Constitutions, and Hysterical Women; and it will stop all Evacuations that are injurious to the Womb.

This Water I have no particular knowledge of as yet, for its Cures, but I find it most used for Devotion, and Pleasure, by young Persons, who have told me, that it had no effect on them, more than to make them very lightfome, and that they never sweat after it, nor catched cold.

The

The time of staying in these, is according to our easie bearing the coldness of the Water; and it is very proper to dip over Head divers times, in the use of these Baths.

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We have yet a greater Prejudice to Cold Baths than to the Hot, because they occasion Cramps, Febrile Rigors.

Cold is found to be an Enemy to the Teeth, Nerves, Spinal Marrow, and Brain; and the old Aphorism runs thus, Nix & glacies pectori inimica, tusses mounet, & Sanguinem, & distillationes: We commonly are sensible of the Injuries of Cold Air, when we are hot; and the sudden change of the Air affects us with Distillation; the same we fear from Cold Water, and therefore we believe it dangerous, and not so safe as the Hot Baths. But to this I may answer, that we use the Cold Baths only in Summer; that for preservation of Health the robust Persons only use them: And the Servants near Holywell and Buxton, make it a part of their Agreement with their Masters, that they may have leave to go to those chen Wa-

Waters every Year for their Health. But in the hotter Constitutions which occasion Diseases, as the Choleric, Scorbutic, Vitriolic, Salt, and Putrid; these want the extream Coldness, to reduce the excess of Heat, Fermentation, Digestion, or Motion of the Globuli, call it as you please, to their natural Temper; and Experience has sufficiently satisfy'd us, that Holywell, St. Mungus, and Buxton-Waters, are not only innocent, but also very useful, for the Cure of many Diseases.

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Æins commends the swimming in Sea-Water Cold twice before, Dinner and Supper, for the Itch and Leprosie.

Cold Baths of Pump-Water in the Summer; and the Person that uses them must be prepared by bleeding and purging, as the Disease and Constitution requires. In the Morning it must be used, being empty, and dip over Head in the Water, in which he must continue up to the Neck, from two or three Minutes to half an Hour, as the Patient can bear it; and then

then be dryed, and put to a warm Bed, with a Flannel Shirt on, and there sleep. This Immersion may be repeated thrice or oftener; and the first time fit in the Tub but two or three Minutes, and longer afterwards; and convenient Medicines may be given, well as a suitable Diet to the Disease; that is, the coolest Diet is most agreeable to Cold bathing, which is used for the Hot Diseases, as Hectick Fevers with Phrenitis, and all Rheumatic Bloods. And for more particular Directions, it is necessary to consult a Physician, who has found out by Experience the best Method of Cold bathing. I never yet heard of any who has made any successful Tryals of it, but Dr. Baynard in Surrey-Street in the Strand; to whose Management I would recommend those who want the benefit of a Cold Bath.

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then be dived, and partion warm Bed.

fic in the Tub but two of A Letter from Dr. Clayton, concerning the Virtues of St. Mungus. Well, near Knaresborough in York-

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T. Mungus Well abounds with very little of a Mineral, unless it be something of a Nitrous Salt, and a little Vitriol, which render it particularly Cold, wherein chiefly consists its Virtue.

Therefore the Operations that it has on the Body, is to make the Pores of the Body contract and close, so as to keep in that natural Heat which should strengthen and invigorate the Body, and so particularly strengthens the Nerves: For you must know, as there are many Thousand Pores we constantly transpire thereat, so that they are as so many Chimneys to the Body,

Body, thro' which the Heat of the Body constantly passes, and which is called, (because these Fumes that so pass are insensible,) Insensible Transpiration. And tho' this Transpiration be insensible, yet in a Day's time it is so considerable, that at all the Pores of the Body we transpire very nigh twice as much as we void either by Stool or Urine, or even both; for a Man that eats and drinks in twenty four Hours forty Ounces of Meat and Drink, voids not by Stool and Urine past sifteen Ounces; the other twenty five Ounces pass by this insensible Transpiration. Therefore this being so confiderable, when these are too open, it must needs enfeeble and waste the Body as well as a constant purging, and a too great evacuation any other way. Therefore the bathing in these Cold Waters makes the Pores contract themselves; particularly it also cleanses them of that foul Sweat that clogs them, and renders them unapt for the Performance of the Duty they are defiguid for, which is to contract or dilate themselves proportionably to the external Heat,

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Heat or Cold; and if they be defective either way, too remiss, or too rigid, proportionably various Distempers happen: As when too remiss in Children, the Rickets, generally in the Extremities a Wasting; so their Legs and Arms grow lean and emaciate; but that part of the Body that is next the Heart, which is the Fountain of Heat, is supply d with Heat sufficient, and therefore that part of the Body continues pretty plump; but generally the Head, that is fortify d with a Scull, and not liable to this preternatural Transpiration, grows extraordinary big in such Children.

Fools and heavy-spirited People are little liable to this Distemper; but the evitty Children, whose Spirits are the most resin'd and subtle, are the aptest thus to a preternatural Transpiration.

This bathing likewise upon the same account is good for some Hectical thin People, whose Distemper is owing to the same Cause.

But

But there is a Hectical Distemper that is owing to the contrary Cause, the too rigidness of the Nerves, that keeps in the Heat too much. And this is the Cause of many Fevers; and therefore as bathing in these Cold Waters is good for the Rickets, so is Sweating extraordinary good in such Fevers; for as the one contracts the Pores, the other dilates them.

or

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Rickets Therefore the Distempers it is good for is particularly the Rickets above all others; as likewise Hectical Persons, of a staccid soft Flesh; and for some windy Pains in Persons likewise of a staccid Flesh, and the like.

The manner of bathing is only as we do commonly in a River. Children they swill and dip them, and so frighten and stir up the Spirits, by a particular Agony the more. Often pop them over the Head, and carry them to a Bed, or the like, to sweat gently after it, that so the Pores may be brought to the due Tone of opening

the BATHS in England. 117
opening and contracting, as they ought to 3 or 4
do; and therefore they do the same three days
or four Days, that the Dilation and days
Contraction may be the more perfect.

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Your most assured Friend, and humble Servant,

Clayton.

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An Extract of what is useful from Dr. Jones's Treatise of Buxton-Bath; writ 1572; with some Additions and Remarks upon it.

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Derby-shire, 10 Miles from Chatsworth, 16 Miles from Manchester, 16 from Chestersield, 20 from Derby, 30 from Westchester, 30 from Lichsield,

and 20 from Stafford.

It is observed that no Baths have a healthful Air about them, because these Baths, viz. Buxton and Bathe, are situated very low, in a Valley, betwixt two Hills; and the Country near Buxton standing so very high, frequent Rains are observed to fall there: But in the Summer it is frequented by many Persons of Quality, for Hawking; the Moors thereabouts being very large like a Wilderness; the Poots are so plen-

· the BATHS in England. 119 plentiful there in their Seasons, that a Person of Quality killed twelve Brace in a Day for one Week he staid there

last Summer.

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This Country being in the Winter unpassable, because of its Snow, is frequented only for the Bath's fake in the Summer time, and out of Curiofity by others, to admire the Wonders of that Place; amongst which that Bath is much esteem'd as one, by all its Northern Neighbours, who visit it once in a Year.

The Wells have the Name of the Town, and that of some Saxon or Dane It bath for many Years past been frequented for the Health of Thousands, for bathing, as well as it is now in these our Days: For between Burgh and it, there is a High-way forced over the Moors, all paved, of such Antiquity as none can express, called Bath-gate,

More came out of a Superstition they had in the Well, than for any assurance they had in the Property, Quality, or Temperature of the Bath; for of it, and the use thereof, they were ignorant. And

And to this Day the Common People frequent it for Pleasure, now they have disused any Devotion to St. Ann, by whose Name one of the Wells is called.

Cambden observes, that at the Rise of the River Wye, there were Nine Springs of Hot Water, called at present Buxton-Well, which he says were found by Experience good for the Stomach, the Nerves, and the whole Body; and the most Honourable George Earl of Shrewsbury had lately adorn'd them with Buildings; and they began to be frequented by great Numbers of the Nobility and Gentry: About which time the Heroic and Unfortunate Princess, Mary Queen of Scots, took her farewel of Buxton, in these Verses,

Buxtona quæ calidæ celebrabere nomine lymphæ,
Forte mihi posthac non adeunda, vale.

And from this Queen, the Pillar in Pool's-Hole, which is near Buxton, may have its Name.

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That these Baths were anciently known to the Romans, the Roman Causey, call'd Bath-gate, which continues Seven Miles to the Village Burgh, evidently shews; and from them we learned the use of bathing.

But the Priests of the following Age did not understand how the great Effects of that Bath could be produced by so Tepid a Water; that according to the Humour of the Age, it was attributed to the Merit of St. Ann, to whom the Sick made a religious Visit.

The Bath at Buxton has a fiery Heat evident to the Sense; but it is in a moderate Degree, or Tepor rather than

Heat.

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It contains no fign of Brimstone; but it boils up with Bubbles, as at Bathe; so that its Heat comes from some actual Fire: There is the same depression of the Earth into a deep Valley at Buxton, which appears at Bathe; and that Contrivance was probably necessary, to come nearer to the Central Fire, for the boyling of the Water.

Buxton-

Buxton-Bath hath not the Fourth part of the Heat as the Baths at Bathe, nor the Minerals that be there, viz. the

Sulphur.

Buxton-Water is much like as if a Quart of boiling Water were mixed with a Gallon of cold Water: But Bath-Water is as if to a Gallon of seething Water a Quart of cold Water were put; by reason whereof it attracteth and dissolveth more speedily, but Buxton more sweetly, and more temperately, not bringing so many grievous Accidents as Bath does. This operates effectually, tho' not so speedily as Bath Waters do ; but for many Infirmities more commodiously, by restraining all unnatural Evacuations, and strengthening the feeble Members, affifting the Animal, Vital, and Natural Faculties, dispersing Opilations, and qualifying Griefs.

There was no necessity of Sulphur in Buxton-Water, nor no great Heat, because Buxton-Waters were design'd by Nature for a Cold Bath, and that the most moderate and safe; for which End it was prepared with a lacteal Te-

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por, to prevent any fear of a sudden stroppage of Pores, and to be less of-the fensive to the nicest Constitutions.

The Well-Springs are situate in a Valley hard by a running Brook, and run into it, where you may perceive the Hot Water on the one side of the River, and the Cold on the other, which hinders the River of freezing in coldest Weather, for a quarter of a Mile; which is an Argument of the Power of the Heat of those Springs, or else of the Saltness of them.

There be five or 6 other Springs not so good as that first mention'd. If the Mineral Men bored to find the Cold Springs, and turn them away, the Springs would

be more excellent.

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This depends on the common Vulgar Error, that these Baths were design'd for Hot Baths; and that there can be no good Effects from cold Temperate Baths; and upon this Prejudice there have been divers Enquiries made, to find out the cold Springs, and divert them from the hotter; but we may thank God, who has not permitted mitted the Mistakes of Men to injure

his Bleffings.

I defignedly enquired of all the old People I could meet with in Buxton, about the Heat of the Bath-Water, who affured me, that it has been the same many Years past; which I may confirm by the Writing of Dr. Jones. who led the People into this Mistake, who would have it made more hot, that more cold Infirmities might be cured by it; but this is unreasonable that Cold Baths should be made fit for Cold Diseases, nor the Hot Baths for the Hot. Let proper Baths rather be chosen for every particular Disease; Cold for the Hot, as those at Buxton; and the Hot for the Cold, as those at Bathe.

Seeing God bath bestowed on us these Baths for our great Benefit, if so be there be nothing that can more readily take away Distempers, (as Galen saith, de usu partium) of Heat and Cold, or evacuateth by the Pores the Superfluous Humours, than a Dulce or pleasant Bath of warm Water, or that maintaineth Health more; for

for whereas it is by Nature moist, and moderately Hot; by its humidity it humesteth, it dryeth, heateth, all cooled or congealed Humours; it strengtheneth the loosed by infensible Transpiration; it discusses and mundisies the Skin; all which is proved by daily Experience.

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I find the Taste of Sr. Ann's Well-Water and Buxton-Bath to be the same as to Heat and Minerals. It is evidently of a Milky Tepor, very Salt and Rank, which the Ancients called Aluminous; but I will translate Dr. Lister concerning them, who gives the Ingredients of these Waters, and says out of 32 th. of both Fountains boyl'd to dryness, he had scarce two 3 of Salt, without any Flakes of Stone, tho' he observ'd in the boyling the Brass Vessel to be infected with the Powder of an Ash-colour'd Stone. The Salt coagulated into Chrystal of Common Salt; amongst which were some Crystal of a Lapis Calcarius.

This Spring at Buxton runs plentifully; and the Bath may be empty'd in a Quarter of an Hour, and is immedimediately fill'd again in the space of

an Hour, or less.

This Bath is contain'd in a Room built over it, the Air of which is very warm; and a Fume rifes from it like

boyling Water.

The Water does not feel very Tepid upon our first Immersion into it; but after some time, you may find it warmer; and in some particular parts of the Bath more warm to your Feet; and it sumes most in the Winter.

Their stay in this Bath is an Hour or more, till every one feels themselves very cool; and then they are wiped, and put to a warm Bed, to lie half an Hour, and sleep; but no Body sweats with it, nor catches cold, the they go in naked: But I think the Men ought to nse Drawers, and the Women Shifts of Linnen or Flannel. But Custom hath taught the Sexes to have separate times of bathing.

The Bath-Water is so clear, that we may see to the Bottom, tho' the Wa-

ter be usually up to the Neck.

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It is convenient to dip the Head all over in these Tepid Baths, or lay a wet Cloth on it; for it cools the Head much, and checks the arising of Fumes.

The Times of bathing are Morning and Night; fasting in the Morning,

and after Supper.

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They usually swim and walk about in the Bath; for it is impossible to stand still without chilling too much.

The Well of which we drink is St. Ann's Well; and of that some drink two, three, or four Pints, which may cause Vomiting if drank hastily; but I and some others drank it without any great offence, except its ftypticity and faltness, or Tepor, make it naufeous to some.

I could not find any Vitriolic Tafte in the Waters, but can fairly give an Account of their Virtues from their cooling effects on our Bodies; for they are made cooler by the use of it; and the actual Heat has not any confiderable Effect on us; for by that we are radiione ufually up to the Neck.

neither heated, nor sweat; therefore no more Heat was necessary, but to prevent the inconveniences of too fudden a coldness by the Water.

The Saltness of the Water cleanses, and has an effect as well as all Salt Baths have, as a Diuretic, &c. Vide

the account of Salt-Baths.

The stypticity of the Water helps the Coldness to stop the Pores, to strengthen the solid Parts, and stop Fluxes; so that from the moderate coolness, the saltness, and stypticity, I may give a fair account of the Virtues of this Water.

Buxton Water, by reason that it rarifies the Parts, it provokes Transpiration, and wipeth away the Filth of the Skin 3 and it also confirmeth, joyneth, consolidateth the loosened, severed, and weakned Parts, qualifying the Over-Heated Members, drying such as be over-moist; therefore good for all Diseases as come of over-much contrary heat, and for such as come of overmuch Moisture; for all Cholerick and Salt Humours.

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Baths, they are the fame as in all Cold bathing at St. Winifred's, and St. Mungus's; for they strengthen, and cool, and constringe the solid Parts, and cure the hot Cacochymia's of our Blood; for which reason I may esteem Buxton one of the most temperate and safe Cool Baths in Europe, as Experience has consirm'd it.

The Diseases it cures are Rickets, Inflammations, Fevers, and Rheums; Headaches, weak Sinews, old Scabs, Ulcers, Cramps, Numness, Itchings, Ring-Worms,

Impostumes.

These Wells help Women, who by reason of over-moisture be unapt to Conceive. Also all such as have their Whites
too abundant: Also weak Men that be
unfruitful: Likewise for all that have a
Priapismus, and that be parboyl'd in
Venus's Gulph; all these it cools, cleanses,
and strengthens by its coldness and stypticity.

It beautifies the Skin, and cleanses it.

It is profitable for those that have the Consumption of the Lungs. It cools them, and

and stirs all Evacuations, or Looseness,

Hamorrhages.

It cureth Apoplexies, Palsies, Tremblings, Vertigo, King's-Evil, Redness of the Face, St. Anthony's-Fire, Melancholy, Hypochondriack Winds, Jaundice, Dropsie, Pains in the Breast and Stomach, the Scurvy and Night Pains, Rheumatism, Sciatica, Gout, Stone, Vicers, Cancers, Schirrhus, Cholic, Hysteric Passions, Catarrhs, Asthma's, Leprose, Dysentery.

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It is beneficial to all such as vomit

Blood, as bath been well proved.

It is very good for the Inflammation of the Liver, and excellent for over-much Heat, and stopping of the Veins, and for such as have burning Urine, or Tenesmus.

In stoppeth a Gonorrhæa, Hæmor-

rhoids, Piles, Menses.

It stoppeth Vemitting, Hickup.

It openeth Obstructions of the Milt and Liver.

It is good for the Short winded.

It stops the Fluxes of the Milt and Liver.

It cureth the Green sickness perfectly.

It cureth the Morphews, and defends from the Stone. And,

It

the BATHS in England. 131.

It preserveth the Health in a good State.

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By this Catalogue of Diseases we may see how great and numerous the good Effects of this Bath are in all the hot Cacochymia's, in all hot Desluxions, Pains, Evacuations; so that it equals the Bath Waters in the Virtues and good Effects, but has no ill Effects on any Person, because of that exact Temper of its Heat, which wants but little of the Natural Tepor in Animal Humours.

As to that long Discourse about Diet and Exercise, in Jones, I think them not necessary, nor sit to be printed, because there is nothing new in them, but what occurs in Galen, Etius, Avicenna, and many more, Jones quotes; by which we may be convinced he was as well read, and of as good Judgment, as any of that Age.

He recommends both Dinner at Eleven a-clock, and Supper about Five; and that the Persons who come from the Southern Parts be well cloathed, because it is a much colder Air, but very pure; and that good Fires do

K 2 well's

well; and he says you may use a more plentiful Diet at Buxton than at Bathe: And I fee no reason to alter our ordinary Diet at these Baths; for as we use a more cooling Diet in hot Bodies and Baths, so in the cooler Baths we must use a more heating Diet; and that is an ordinary Diet of Flesh-Meats, and moderate Drinks. In the Morning after bathing drink either St. Am's-Well, or 2 Quarts of the Vitriolic Chalybeate Water lately found out there: And Water-drinking does not only cool and strengthen the inward Viscera, but hinders the breeding of hot Fumes, Vapours, or Spirits in the Body, which could not fafely be stope in the Body; and both together feem to me powerfully to alter the hot Cacochymia's in Animals.

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At Dinner eat of your accustom'd Diet: Herbs, Fruits, Legumens, Milk-Meats, and Salt Meats are usually condemn'd at Baths, being at all times but indifferent Food. But if the Diet must be Physical, it must be ordered as the Strength, Custom, Disease, and the

the BATHS in England. 133 the Nature of the Bath requires. And fince the Bath cools, and the Difeases be hot, the Diet here may be made as for all hot Cacochymia's; more cold and moist, if the Disease require it: And the weak and thin are to be more plentifully nourished, and the Quality of the Diet contrary to the hot State of Humours; but in healthful Persons the ordinary Diet is most convenient in these Baths.

Bath-Waters seem improper with

Meats, because Diuretic.

In the use of those Baths, we must avoid all Excess, Lassitude by great Exercife, and Retention of Excrements, or Evacuations too much, by Venery,

Stools, Sweats.

The Ancient Writers prescribe Exercife before these Cold Baths; and Perfons commonly bathe as foon as they come thither. The design of the Exercise was to excite a greater Heat, to conflict with the cold Water; but cannot be necessary here, because the Bath is Tepid. berglio ad Tom it will be ordered

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Jones orders to tarry two or three Days before you enter the Bath; and truly this time might be well spent in Vomiting with St. Ann's Well-Water, for those it is convenient: And after purging with Epsom Salt, or Sal Mirabile, dissolving & B or 3 j. in two Quarts of that Water.

The time of bathing Jones orders to be in the Morning and Evening, but after your Exercise and Purging, and altogether before Meat, in the Summer Season, between the beginning of May, and the latter End of September.

In the Bath you may tarry two or three Hours if you please, and the Body be fit for it, and the Disease require it.

But I think the Time is to be discerned by every Person's own Sense; for when they are very much chill,

they ought to go forth.

After you come forth, your Clothes well air'd (in the next Room) your Bodies well dry'd, and especially your Head, they may go to Bed, and Sweat, with two Bladders of Water apply'd to them hot.

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the BATHS in England. 135

This Practice is disus'd; for it is not rational to Sweat when we come to close our Pores, and cool our Humours; but we go to Bed only to keep our felves warm.

The Diet, Exercise, Friction, Purging, Bleeding, mention'd in Jones, are no more than common Rules writ

by Galen and others.

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He advises to continue at Buxton Fourteen, Twenty, or Forty Days;

the common practice is a Week.

All the Exercise necessary is what is usual at any other time for our Healths; he who when he is very hot, would go into the Water to chill him; that is, to create hot Fumes, and stop the Pores; and will certainly produce a Fever or Defluxions.

He proposes a Register of the Patient's Name, Disease, Country, coming and going thence, paying for it according to the Quality of the Person, some to the Poor, and the rest to the

Book-keeper.

four Years Bucclively, was cined of An Abstract of some Cures performed by Buxton-Bath; taken from Divers Certificates and Letters sent to me by Mr. White, the Keeper of that Bath.

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IN the Gout the Virtues of this Water have been well experienc'd; and were successfully tryed by Caleb Pott, Schoolmaster of Audlem in the County of Chefter, who came thither on his Crutches, and went away very well, and testify'd this under his hand, 1689.

I met with an old Divine there last Year, who confrantly frequents that Bath every Summer, and acknowledged to me, that he had received great Benefit by that Bath against the Gout.

I met with a Person who had been there for a Scorbutic Rheumatism, and he affired me, that after general Evacuations, his Pains immediately ceased by frequent bathing.

Mr. Stephen Kaye, Rector of Marton in Lincoln-shire, who used the Baths four

the BATHS in England. 137

four Years successively, was cured of the Gravel in the Kidneys, which tortur'd him for several Years: And also of the Gout, to which he was subject. Of this he gave his Testimony

in writing.

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This Bath hath had good success in Lameness, and Pains of the Limbs, as appears to me by a Certificate under the Hand of Edmund Horncastle, of Clarbrough, in the County of Nottingham, who by the use of this Bath recovered of his Lameness and Pains, and went away without his Crutches.

The Statute of 43 Eliz. provided for the passing of cripled or sick Persons to Buxton as well as Bathe; which is a sufficient Testimony of its being eminent for curing Lameness in those

Days.

Mr. White the Bath-keeper gave me many Instances of Cures done on the Scurvy, Leprosie, Dropsie, Lameness, Pains, Gravel, Stone; and in the Gravel it had great Effect on Robert Downs, Bath-keeper there; and another Person from Hull. And he farther gave

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It is very useful in Distillations and Asthma's, by which I believe I received much Benefit; the Pseuchrolusia is no less beneficial than the Hydroposia. And here we drink the same kind of Water we bathe in, as they do at Bathe. And we alter the Humours by drinking, which helps the Effects of the Bath-Water externally.

Mrs. Tripp of Weston-Underwood, in the County of Bucks, was cured of a high Scurvy, and of a Consumptive

Cough, Ann. Dom. 1689.

Mr. Fauler of South-Wells in Nottingham shire, 1691. was cured of a Rheumatism mixt with the Dropsie and

Scurvy.

Thomas Redford of South-Wingfield, in the County of Derby, was cured of an Universal Leprosie, 1696. And, Elizabeth Cruchbow of the same Town, was also cured of the same.

Josiah Stocke of Sheffield in York-shire, was cured of an Ague about thirty Weeks standing. This

the BATHS in England. 139

This Water did not curdle Milk, as I try'd by boiling 3 nor did it much precipitate White with Spirit of Harts-Horn; but it turn'd a little.

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A brief Description of divers rare and admirable Cures (from Lidia Morewood) and the same persectly effected by the Virtue of Buxton-Bath.

Mrs. Elizabeth Dorley in Torkshire, was by Sickness and Pains
almost depriv'd of the use of her
Body for Five Years; and by the Application of this Bath, in one Week
she regain'd her Strength so much,
that she could walk abroad, and within
Sixteen or Seventeen Days, she perfectly regain'd her Health and Strength
of Body.

One Manforth of York-shire was brought by three Men, who in one Week regain'd his Strength so much, that he could walk abroad, and by a conti-

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nued Application of the same, he per-

fectly recover'd.

Mr. Bateman's Son of Youlgreave, who had lost the use both of his Speech and Limbs, was perfectly cured by this same Bath.

A Stationer's Daughter of Nottingham, which had her Body wholly overspread with Scurf and Scales, regain'd a pure and free Flesh by this Bath.

Mr. Gill, near Ragby in York-shire, was seized with a Tumour in one side, which the Physicians and Surgeons failing to cure, he came to this Bath, and thereby received an absolute and

perfect Cure.

Dr. Wheatly near Barnsley having for several Years frequented this Bath, but having this last Summer omitted the same, acknowledged a decay of his Health thro' his omission; which within the same Year gave an Exit to his Life.

Several People, which being Strangers to me, I cannot express their Names; but I can assuredly testifie, that the BATHS in England. 141 that many who have had Red Spots within their Flesh, wholly defacing their Body, were taken away by this Bath.

And very many lame and impotent People, which have come hither, some by the help of Crutches, others born by Men and Horses, have regain'd their Strength, and the use of their Limbs, by the same Bath.

These were truly penn'd by Thomas
Bishop, Schoolmaster in Buxton,
from me Lidia Morewood.

A Boy having his Hands and Feet overspread with an obdurate scaly Matter, regain'd a pure, soft, and free Flesh by this Bath. Attested by Lidia

Goodwin of Buxton.

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Mr. Low of Arraslee in Derby-shire, having very dangerously hazarded his Life by excessive drinking, with other Companions, which died thereupon, continu'd in this Bath for Twelve Hours, and from the same receiv'd a Cure. By Roger Goodwin of Buxton.

Sarab

Sarah Middleton of Buxton having a Lameness in one Knee, so that for half a Year she was supported with Crutches,

was by this Bath perfectly cured.

A certain Man which came from Nottingham, went by Crutches; in one Months time by this Bath regain'd his full Strength. By Sarah Middleton of Buxton.

Mrs. Hill from York was so lame that she went by Crutches; in one Weeks time regain'd her full Strength and use of Limbs, by this Bath.

A Gentleman from York having a Relapse of a cold Palsey, in two Weeks

time was cured by this Bath.

A certain poor Man near Warrington in Lancashire, having many Sores and Runnings upon his Body, in two Weeks time received a perfect Cure from this Bath.

Ralph Saxon of Buxton, having several Sores and Runnings of his Body,

was cured by this Bath.

Mr. Jackson, a Minister of the Gospel, having left a Place of considerable Value, came and serv'd at this mean

Place

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Ner

the BATHS in England. 143
Place of Buxton, in expectation of the benefit of this Bath; and receiv'd a perfect Cure for the Stone from the same.

By Anthony Cleaton Sen. of Buxton.

These are all impartial Accounts, as testify'd by Cornelius White.

23 Jan. 1696.

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New Improvements at Buxton-Baths,
Anno Domini 1695 and 1696,
by Cornelius White, an Attorney of
his Majesty's Court of Kings-Bench
at Westminster, and one of the Society of Clement's Im, London;
present Tenent to the Premisses, under his Grace William Duke of Devonshire.

Springs from the hot, the antient Bath repaired and paved, and a new one made, for the better conveniency of the poor and impotent; And a Sough about

about 200 Yards in length, to drain both, for the cleanfing thereof every Day; with more private Apartments for Lodgings, new Stables, new Gardens, new Bowling-Green, and several Green Walks; a cold Mineral Spaw now discover d within 200 Yards of the warm Spaws, the warm Springs being separate, and about 40 Yards di-Stant from the Bath, approved of by the most eminent Physicians. About the middle of the Sough a Ciftern of of Lead was found two Yards square. and one Foot deep, being four Yards within the Earth, supported by several Oaken Planks: Something higher, in the same Sough, was found a place seven Yards wide, and twenty Yards long, being smooth and even on both sides and at the bottom, two Yards deep in the Earth, and made of Stone.

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