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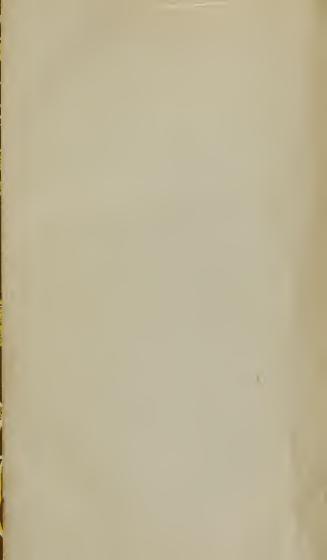
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A TREATISE

ON THE

DISEASES OF CHILDREN,

WITH GENERAL DIRECTIONS

FOR THE

MANAGEMENT OF INFANTS

FROM

THE BIRTH.

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PHYSICIAN TO THE ERITISH LYING-IN HOSPITAL.

TWO VOLUMES IN ONE.

A NEW EDITION, REVISED AND ENLARGED.

Ornari Res ipsa negat, contenta doceri....MANIL.

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PREFACE.

THE quick sale of the first impression of his Treatise on the Diseases of Children, has encouraged the author to take some pains in correcting and enlarging this second edition. He has, at the same time, endeavoured to avoid all unnecessary details, and useless distinctions, as well as extending it to subjects foreign from the immediate design. Should the reader apprehend any little exceptions in this respect, he will readily perceive the inducement; and, although the accuracy of system should really be violated, it is presumed, it has only given way to motives of humanity and usefulness.

Perfectly sensible, however, of numerous defects, the writer relies again upon the indulgence of the Public, though he hopes this edition will be found somewhat more complete, and more worthy of a continuance of that favourable reception wherewith the former was so generally honoured. Particular acknowledgements,

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indeed, are due for the approbation of the faculty; and the like candor, it is hoped, will now excuse any alterations that have been intended to render this edition more easy and familiar to common readers. For the sake of public utility, the writer has carefully avoided all technical terms, or has so explained them, and so enlarged on the nature of diseases, and the doses of medicincs, that parents, and others not versed in the practice of physic, may find all common directions sufficiently explicit: whenever they appear otherwise, readers of that description should conclude, that the case is too difficult for their management, and that probably the best guide might mislead them.

The prolixity of other parts may be equally disagreeable to professional men. For the style in general, indeed, the author pretends to have but little to offer. Had he more leisure, possibly the faults might have been fewer; and perhaps, the necessity of clearly and intelligibly expressing what is to be said, may, in this instance, be pleaded with those who expect conciseness and accuracy; which every writer should aim at. It may therefore be observed, that some consentaneous diseases have been longer dwelt upon, and their remedies oftener hinted, than might be necessary for many readers. To such, however, as are themselves obliged to superintend the health of their children, and to those who derive a happiness from contributing to that of their offspring, there will not be much apology necessary, either for entering so fully into the LITTLE matters that compose the SECOND part of the work, or for enlarging elsewhere on many circumstances that may appear triffing when separately considered. It was, indeed, very much with a view to their use and profit, that the work was originally undertaken; and to their notice and protection it is again submitted, in its improved state, with all Deference and Respect.

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TREATISE, Sc.

A

THE following pages being conceived to contain a pretty full account of the difeases incident to childhood, and some of them fcarcely known to preceding writers, may poffibly throw fome additional light on this important fubject. They are, in this hope, respectfully offered to the notice of fuch practitioners in phyfic, as may not have made the complaints of children their parti-cular fludy. The motives which have induced the writer to extend his plan to another class of readers, it is prefumed, may justify fuch an attempt. He has, indeed, long lamented the very improper method in which the diforders of infants are treated by those who defign them the greatest kindnefs, but whofe mistaken opinions too often counterast their benevolent intentions. The laudable affection of the fondest mother frequently becomes a fource of manifold injury to her tender offspring: And this is not only the cafe among the lower clafs of people,

ple, or in fituations where medical affiftance is procured with difficulty, but even in the metropolis itfelf, and in the higher ranks of the community, where many prejudices very hurtful to the eafe and health of children ftill prevail.

It is intelligent Parents therefore, as well as the medical world, to whofe notice this work is addreffed; and it is hoped, in the effimation of both, no formal apology can be neceffary for taking up a fubject, that has long called for a thorough investigation. -For the manner in which it has been executed, the author, indeed, again folicits the candor of the public. The most respectable authorities, however, have been confulted, a proper attention been paid to facts, and his best endeavours exerted to obviate the effects of that peculiar veil * which is faid to obscure infantile diforders. A practical arrangement of them has been studied, and regard had to their respective caufes and fymptoms, tending to elucidate their nature.

* There is nothing to which this peculiar obfcurity may be referred, but the incapacity of infants to defcribe their own feelings.—There are, neverthelefs, other fources of information, lefs fallacious fometimes than the more literal defcriptions of adults, which in nervous complaints particularly, would tend to perplex the ableft phyfician if he fhould always be led by them; and the like difcrimination will ferve him equally well in the treatment of infants.

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Phyficians and Parents.

nature, and render their treatment more obvious than has been generally imagined.

To their immediate Difeases, is added an attention to fome of the principal Accidents and little Injuries to which infancy and childhood are peculiarly liable; which though not neceffary, indeed, for fome readers, it is prefumed will have their ufe, and may, poffibly, prove no fmall fatisfaction to others. And here it may not be improper to obferve, that whatever merit former publications may poffefs, it may, neverthelefs, with great propriety be remarked, that they either make a part of fome large fystematic work, the bulk of which must be foreign from the intentions of a tract of this kind, or elfe they are far too concife, and have omitted many complaints of too much importance to be overlooked.

It has been generally lamented by writers on these difeases, that this branch of medicine has remained too much uncultivated. And, indeed, till of later years, little more has been attempted than getting rid of the wild prejudices and anile prefcriptions of the old writers, which had too often ferved only to obfcure the true nature of children's difeafes. Another, and a very principal caufe of fo strange a neglect, has arifen from an idea fome people have entertained, that, as medical people can have but a very imperfect knowledge of the complaints of in-A 2 fants,

4 Difeases of Infants much Neglected.

fants, from the inability of children to give any account of them, it is fafer to intruft the management of them to old women and nurfes; who, at leaft, are not likely to do mifchief by violent remedies, though they may fometimes make use of improper and inadequate ones.

How fatal fuch a miftake muft be, is furely fufficiently obvious; fince the deftruction of infants is eventually the deftruction of adults, of population, wealth, and every thing that can prove ufeful to fociety, or add to the ftrength and grandeur of a kingdom. It may, moreover, be obferved, that where mifmanagement at this period does not actually deftroy the life, it often very effentially impairs the health; the foundation of a future good or bad conflition being frequently laid in a ftate of infancy.

It is true, indeed, fome laudable attempts have been made of late years to refcue this important truft from being indiferiminately committed to fuch dangerous hands; but it is ftill to be lamented, that even in this liberal age, fuch attempts have not been attended with all the fuccefs they have deferved. It cannot therefore be improper, that fomething farther fhould be advanced on the fubject, in the hope of filencing the weak objections hitherto made againft procuring the beft advice as early as poffible. And The principal Causes of this neglect.

And this is the more neceffary, becaufe thofe who have the greateft intereft in the fubject, the moft authority on the occasion, and the fincereft affection for their offspring, have frequently the greateft objections to medical affiftance, till it is, fometimes, too late to employ it with effect.—I may, indeed, be very madequate to the tafk of obviating fuch prejudices, but I fhall thate an argument or two that has always appeared to me of great weight.

A principal objection, taken from the confideration of the incapacity of infants to deferibe their complaints, has been flightly noticed already, and has been more fully difcuffed in a treatife written about twenty years fince, by Dr. Armftrong.* It is aptly remarked by this writer, that the fame difficulty occurs in a variety of the most dangerous complaints of adults at every period of life, which confessed require the greatest affiltance; fuch are attacks of phrenzy, A 3 delirium,

* This edition did not contain more than a dozen difeafes; being confined to the hooping-cough, ferofula, teething, and the diforders of the first-paffages. In the year 1783, Dr. Armstrong published a fecond edition considerably enlarged. It fo happened, that I had not feen it when the first edition of the prefent work appeared, or I should certaily have taken due notice of it, in regard to feveral diforders, mentioned in the Doctor's latter edition; to which therefore I shall now attend, as occasion shall offer. Arguments against this Neglect.

delirium, and fome kinds of convultions : to which may be added, all the diforders of idiots and lunatics. But thefe have been fuccefsfully treated in every age, not excepting even lunacy itfelf, and the melancholy fubject happily reftored to fociety, his family, and himfelf.

It has likewife been obferved, if infants for the reasons abovementioned are to be excluded the benefit of a phyfician's advice, it is difficult to fay at what age children may fafely be intrusted to his care ; fince at the age of five or fix years, they would frequently miflead the enquirer, who should truft-to their own account of their complaints. Their ideas of things are too indistinct to afford us fufficient information, and they accordingly often call ficknefs at the ftomach, pain, and pain, ficknefs; they will frequently make no reply to general queftions, and when they are afked more particularly whether they have any pain in one or another part of the body, they al-most certainly answer in the affirmative; though it afterwards frequently turns out they were mistaken.

To this idea I will venture to add, that although infants can give no account of their complaints in the manner we receive information from adults, their difeafes are all plainly and fufficiently marked by the countenance, the age, the manifest fymptoms,

6

The Difeases of Infants few.

toms, and the faithful account given by the parent, or an intelligent nurfe. This I am fo confident of, that I never feel more at my eafe, in prefcribing for any diforders than those of infants, and never fucceed with more uniformity, or more agreeable to the opinion I may have adopted of the feat and nature of the difeafe. Every diftemper may be faid, in some sense, to have a language of its own, and it is the business of the phyfician to be acquainted with it ; nor do thofe of children speak less intelligibly.*-Limitted as is human knowledge in every department, there are 'yet certain principles and great outlines, as well in phyfic as in other fciences, with which men of experience are acquainted, that will generally lead them fafely between the dangerous extremes of doing too little, or too much ; and will carry them fuccefsfully, where perfons who want those advantages cannot venture to follow them.-Let me ask then; is it Education, is it

* In neither of these fentiments do I stand alone; Harris, of whose work Sydenham is thought to have spoken so highly, has said the same things—" Incertæ verð diagnosews (quæ multum obtinuit) querela non tam a symptomatum desectu, quàm a præposterå ac ineptå medendi ratione ortum suum duxisse videtur." (page 8.) And at page 3.—" Etenim afferere non verebor morbos illius ætatis generê paucissimos esse, et gradu tantummodó differe; imó curationem puerorum multó tutiorem ac faciliorem, quám virorum ac mulierum." De Morb. Infant. it Obfervation and long Experience, that can qualify a perfon for the fuperintendance of infants, or the treatment of their complaints? Surely all thefe fall eminently to the fhare of regular practitioners, to the utter exclufion of nurfes and empirics.*

Having briefly ftated this matter, as I hope, with impartiality, and given it the attention its importance demands, I fhall next obferve, that, as the complaints of infants are more obvious than it has been generally fuppofed, fo their number is comparatively fmall, their caufe uniform, + and the treatment of moft of them, fimple and certain. \ddagger

For

* Neque potest feire quomodo morbos curare conveniat, qui unde hi fint ignoret—Pertinet ad rem omnium proprietates nosse.—Celsus.

+ It may perhaps be objected to this idea, that their various difeases cannot all originate from one and the fame cause; nor is it my intention to affert it, though it is, indeed, true, in regard to a great number of them. It is to be remarked likewise, that it is the complaints of early infancy that are here particularly spoken of; though it is nevertheles very evident, that there is a greater uniformity also in the causes of several disorders even of older children, than there is in those of adults, which have very often various, and diffimular remote causes, at different times, and in different habits : E. G. obstructed satamenia, ascietes, &c.

† Facillimè inquam in morbos dilabuntur infantes, et nisi aut feriùs aut imperitiùs tractentur, facillimè in fanitatem restituntur.—HARRIS de Morbis acutis Infantum. Their Caufes few and Obvious.

For the proof of this, as well as in order to establish a rational practice, I shall first confider the Caufes and Diagnostics, or specific nature of their complaints, before I attempt to enter upon their Cure.

And here I shall not attend to the various remote causes, but shall confine myself to a practical confideration of the subject, and briefly point out their obvious occasions and symptoms. And on this account, I shall not take notice of the various changes which nature herself induces during the growth of the infant, as it passes from one stage of life to another; which is, doubtles, a remote cause of some of their complaints.

A principal CAUSE, mentioned by ancient and modern writers, is the great moifture and laxity of infants; which is neceffary, however, in order to the extension of parts, and the rapid growth of young children. This laxity arifes from the vaft glandular fecretion, their glands in general being much larger in proportion, than those of adults. I might instance in the thymus gland, and particularly in the pancreas and liver. But befides thefe, there are innumerable glands fituate within the mouth, in the gullet, ftomach and bowels, which are continually pouring out their contents into the first-paffages. This is, doubtlefs, a wife provision of nature, and I cannot, therefore, think with Dr. Armstrong, that the gastric, or ftomach

10 Their Caufes few and Obvious.

ftomach juice, renders the chyle lefs fit for abforption; but, as we do not ftrictly follow her dictates in the management of children, as to their food, manner of clothing, fleeping, &c. this abundance of flimy matter may often overload the ftomach and bowels, the constant seat of the first complaints in the infant state. * The quality of the milk, or other food with which infants are nourifhed, may be reckoned a fecond caufe. A third arifes from the delicacy of their mufcular fibres, and the great irritability of the nervous fystem. In addition to these general caufes may be reckoned the want of exercife, which at a more advanced age, happily for us, we are obliged to make use of, and which art, in general, does not duly fupply in regard to children.+

Hence arife acidities in the first-passages, a con-

* Non quod ætas per fe fit caufa illius morbi, eft enim res naturalis et temporis determinatio, fed quia difponit ad morbos quofdam facilius fufcipiendos, fi caufæ eorum accefferint.—PRIMEROS: de Morb, Infant.

[†] Exercife is the grand mean of health.—The irrational fpecies are capable of affording it to themfelves almost as foon as born; and though infant children are not, they are paffive, and can be *exercifed*. Nature and infinct point out the expediency of it, and the fond mother who follows only her own inclination, naturally, and infentibly adopts it, and is continually firoking and playing with the little idol of her heart, whenever it is awake; and

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Their Causes few and Obvious. 11

a conftant attendant upon all their early complaints.* The first of which, is the retention of the meconium, and the last (which may be properly termed a difease at all peculiar to infants), is the cutting of the teeth, in which likewise the state of the bowels is very much concerned.

Upon each of the above heads, it may be neceffary to make farther obfervations as occafion may offer, in order to take notice of fome accidental caufes arifing from mifmanagement, or errors in the *non-naturals*, † as they have been called; efpecially in regard to the quantity of nourifhment adminiftered to infants, and an inattention to the ftate of their bowels.

The fymptoms of thefe first difeases of infants, (by which we also judge of their nature), are chiefly retention and excretion; four belchings; ficknes; vomitings; purgings; the nature of the matter thrown off; watching; inquietude; contraction, and sharpness of the features; blueness about the month; thirst; heat; the manner of breathing and of crying; retraction of the lower extremities; and pusculas, or eruptions,

as it grows older, fhe is led on to give it more exercife, as it can bear it, and according to the fatisfaction the infant never fails to manifest on the occation.

* Sylvius de le Boe. HARRIS.

+ Such are food, air, exercife, and the like.

12 Retention of the Meconium.

tions, external, or internal. The pulfe and uriue are lefs certain marks than they are in older children, and adults. To thefe may be added, the opennefs, or firmnefs of the fontanelles, or moles, and of the futures; and the relaxation or contraction of the fkin in general, and of the forotum in particular.

Having thus briefly adverted to the general Caufes and Symptoms, I fhall now proceed to the confideration of the Diforders themfelves; and fhall begin with the

RETENTION OF THE MECONIUM.

THE Meconium is that black, viscid, or tenacious matter, which, it is well known, every infant parts with by stool, for the two or three first days after it is born, or retains it to its manifest injury.

The ordinary fource of infantile complaints has already been faid to originate from fomething amifs in the first passages, according to the most ancient opinions*, and I have long fusefted, that a foundation is fometimes laid for them, from not duly attending to an early expulsion of the meconium; which will fometimes firmly adhere to the coats of the bowels, and remain for many days, unaffected even by powerful medicines, as I shall have occasion to remark as I go on.—I shall only observe in this I

* HIPPOC. CELSUS, ÆGINETA.

Meconium after Birth of no use. 13

place, that though it fhould not be all retained, yet a part will often remain much longer than has been ufually imagined, and will come away, perhaps unnoticed, at a late period, where no retention of it has been fufpected. Of this I can have no doubt, having been called to vifit infants after the month has been expired, who have been unwell through all that period, for want of having been properly purged, and from whom meconium has ftill been coming away. A tea-fpoonful of caftor-oil, given once or more, has foon carried off a great quantity; upon which all their complaints have difappeared.

The meconium appears to be no longer of ufe after the child is come into the world, unlefs it be to keep the bowels from collarfing, till they be replenished with the aliment the child is foon afterwards to receive. Whereas, if it be not foon carried off, it will not only change the quality of the milk, or other food, as it defcends into the bowels, but itfelf alfo becomes highly acrid, (as it confifts chiefly of gall) and cannot fail to produce indigestion, flatulency, pain, purging or collivenefs, and other fimilar evils: And the meconium is farther disposed to this acrid state, on another account, viz. from admixture of atmospheric air. Whillt the infant remains inclosed in the womb, it is fecured from all contact of air, and there-B fore

Meconium to be purged off.

fore the alimentary contents remain harmlefs and bland though increasing for fo many months; but it is well known, how foon every fecretion or extravafation will become acrid, upon the admiffion of air into any cavity where it may be lodged. And it is, doubtlefs, on these accounts, that provident nature has imparted an opening quality to the first milk of all animals; a certain indication to the rational fpecies, to affift the expulsion of this matter, now no longer required. For though a child should even be fuckled by its own mother, (in which cafe, there is, doubtlefs, lefs occasion for other affistance) yet we know that nature doth not, in every inftance, always fully accomplish her own defigns: and it is from fome ftriking inftances of the truth of thefe observations, that I have faid fo much on this fubject, which I have also been the more inclined to, because fo many writers have paffed it over almost in filence.

I am aware that all thofe who efteem medical people to be officious diffurbers of nature, have objected to their affiftance in this inflance, and conclude, that fhe would do the bufinefs much better if left to herfelf.* And

* The Editors of the *Critical Review* offered a remark of this kind, upon this part of the work, in its former edition; and is the only critique I remember to have feen. I have therefore no caufe of complaint

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Meconium to be purged off.

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And there are even fome phyficians of this opinion, amongst whom I find Dr. Buchan, whofe abilities and reputation claim particular attention, though he, perhaps, may not be fo much engaged amongst very young infants, as those whose peculiar province it is to attend them from the birth. But there can be no general rule without without exceptions,* and as, doubtlefs, many children would do very well without any fuch affiftance, fo am I certain, many would not : and I believe, none can be effentially injured by constantly assisting in this work, provided the means first made use of be lenient, as they ought always to be.-It is the province of art to fuperintend nature, and not only to guard against her excesses, but fo to watch B 2 over

plaint against any writers of that defeription, and fhould not have noticed the prefent censure, if I were not well fatisfied there is no room for fach an objection. And indeed, it is now well known, that the formidable disease, fo fatal to new-born children in the Wess Indies, called the locked jaw, or juwfallen, \dagger is almost always owing either to unwh lefome, and confined air, or to a want of purging off the meconium.

+ See Tetanus.

* Vix ulla perpetua præcepta medicinalis ars recipit. CELSUS. Præf. Lib. i. p. 17. 16 Antimonial Wine proposed by some.

over her, as to enfure the accomplifhment of her intentions, whenever we perfectly comprehend, and can effect them without the rifk of doing harm.*

For this purpofe, amongst others, a new remedy has of late years been recommended as preferable to any purging medicines whatever.+ Mankind has ever delighted in extremes-no fooner has any thing, formerly judged to be hurtful, or even poifonous, been found in certain cases, to be very useful, than it is supposed to be capable of doing every thing, and fuperfedes all that the wildom of former ages has proved to be falutary. Hence, fome advantages experienced from the ufe of wine of antimony, in a variety of children's complaints, as far as they arife from one common caufe, has induced fome people to extol it as an univerfal remedy. But wherefore give an emetic, calculated to empty the ftomach, in order to expel the meconium from the lower bowels ?! It is univerfally allowed, and by this writer

* A Tree will produce fruit in its wild flate; but by human culture the tree is often preferved, and its fruit improved, far beyond its natural flate.

‡ Dr. ARMSTRONG on the Difeases most fatal to infants. 1767.

[‡] On examining the first-passages of still-born infants, (newly dead) it appears, that the large intestines contain the true meconium; the smaller bowels, only a thin bilious stuid mixed with a little gastric The mildest Remedies the best.

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writer alfo, that emetics are not to be administered when the bowels are full, which, in this inftance, is precifely the cafe. It is true, the wine of antimony does not always vomit children, nor will a little matter oftentimes do this, (as I shall have occasion to take notice very foon); it is fometimes, indeed, found to act as a purgative : but if this be the intention, why not adhere to the old, and more certain method, and direct at once fich things whofe proper operation may be depended upon ? Not the flomach, but the bowels, are the natural and fafe outlet for most complaints of children, and a want of due attention to this circumstance has been productive of fome evils, which many practitioners, I think, are not fufficiently aware of.

It is very evident, that fome gentle purgative is indicated on this occafion, and that it should be of a kind that will create as little diffurbance as possible, and especially should not be of an offensive, or indigestible nature; though such have been very commonly advised. In general, indeed, a very B 3 little

gastric juice. The stomach contains still less, as nobile can enter it but by regurgitation from the *duodenum*, and the gastric juice is in small quantity, not enough to be brought up by an emetic without violent straining; which I should imagine it can answer no good end to excite by a vomit, the first hour a child comes into the world. 18 The mildest Remedies the best.

little matter will fuffice; perhaps a little lyrup of rofes, diluted with fome thin gruel, and given occafionally by tea-fpoonfuls, will moftly anfwer the end; will alfo ferve to keep the child quiet, and fo prevent the nurfe from giving it improper food. But if this fhould fail to procure flools, a watery infufion of rhubarb, (or a tea-fpoonful of the wine, diluted as above) will be found preferable to the indigeflible oily mixtures in common ufe.* In the country, where the above medicines may not be at hand, a little frefh whey and honey will be an excellent fubflitute.[†]

The

* See HARRIS.

+ As I have profeffed writing for the benefit of the intelligent parent, as well as to affift regular practitioners, I fhall take this early opportunity of dropping a hint in regard to the *dofes* of medicines, as a kind of *general* guide, where the exact dofe may not be pointed out. Indeed, it were impoffible, in many infrances, fo to preferibe, as to afford no latitude to the diferction of those who are watching the infant, and are eye-witneffes to all its complaints; and I might rather lead the lefs intelligent into errors, by attempting to lay down very particular and precife directions.

The rules I shall here offer will chiefly refer to vomits, purges, anodynes, (or composing medicines) and the tellaceous powders, or absorbents.

Every one knows, that the dofes of medicines fhould be adapted to different ages; but thefe are not in mere arithmetrical or geometrical proportions, and their due relation is only to be afcertained by experiOily Purgatives always exceptionable. 19

The objection now made to oily medicines is very much increafed, from nurfes fearcely ever giving the quantity that is directed, in the courfe of the firft twenty-four hours, as it is always defigned ; and adminifering the reft long after the child has begun to fuck, or to feed. At this period, mixing with the nourifhment, it has a direct tendency to produce indigeftion, wind, and the very complaints, which the oils, adminifered in proper time, were defigned to prevent. Not to add, that fome kind of oily medicine being the ufual purgative on this occafion, is an inducement to parents and nurfes to procure

experience, and in a reference to all the varieties of conflitution, and habits.

From the refult of daily observation, one may fay, for example, to a child of *feven years old*, nearly the *half* of the dose fuitable for *adults*; to one of *three years*, the *fourth* part; of *one year*, the *fixth* part; and the *eighth* or *tenth* part to an *infant* in the *month*.

An adult perfon may take from fifteen to thirty grains of the testaceous powders, and double that quantity of magnesia, at a dose, to be repeated feveral times a day.—From fifteen to thirty grains of ipecacuanha, and from one to two, of emetic tartar, as a vomit. From one to two nunces of falts, or of manna, and from ten to thirty grains of jalap, and from four to ten of colomel as a purge. From ten to thirty drops of laudanum, and from half an ounce to two eunces of syrup of white poppies, as an anodyne.

From this two-fold direction, parents may, perhaps, attain to a more accurate estimation of the dofe proper

Strong Purgatives

cure a repetition of it, and to administer it whenever an infant happens to be coffive during the month; and from whence, the above evils may be frequently induced.

But it has been observed, the meconium is not always disposed to come away, even by the affiltance of common purgative medicines. Having, therefore, begun with fuch as the above, if the child has no ftool for twelve or fourteen hours after birth, and efpecially if it fhould feem to be in pain, a clifter ought to be thrown up ; which may be repeated, if neceffary, a few hours afterwards. And here I would observe, that in the cafes where more powerful means are required, fcarcely any evacuation will be procured by thefe gentle means; for, as I have feen, wherever I could procure one copious stool by a clyster, or gentle laxative, the reft of the meconium has come away with little, or no farther affiftance. But as it fometimes happens, that neither clyfters nor purgatives have any fufficient effect for feveral days, very powerful means must then be made use of ; there being reafon to suspect a suspension of nervous influence.

proper for their children, by means of the experience they may have had of the particular quantity of any of the above medicines ufually found fufficient for themfelves, whereinfoever that happens to vary from the dole here fuppoled to be proper for adults. Sometimes necessary.

ence. I fhall clofe this fubject therefore, with a recent inftance of this kind, (of which, I have feen many) as a proof of what powerful remedies may fometimes be required, and how neceffary it is to pay fome attention to this first complaint of infants.

The child was born of very healthy parents, (not at all of conftipated habits) after a quick and comprehensively easy labour, on the 22d. of February .- To avoid prolixity, I shall not state the cafe in the form of journal; but shall only observe, that the child took a little rhubarb an hour or two after it was born; but having had no ftool when I faw it the next day, I ordered a clyfter to be thrown up. In the evening, the child became drowfy and infenfible, and when rouzed, it moaned, but feemed unable to cry. It continued pretty much in this flate, (and at times, feemingly, in great pain, and evi-dently convulfed) for fix days; and was nourifhed chiefly by a tea-fpoon with a little breaft-milk, feldom reviving fufficiently to fuck.

It had no ftools, but fuch as made only a few fpots on the cloths about the fize of a fhilling, till the twenty-feventh, and thofe were very fmall, hard, and lumpy. On the twenty-eighth it had more of this kind, and it had not till the twenty-ninth any thing like a proper ftool, which was alfo mixed

mixed with hard lumps ; but on the third of March, they were thinner, and on the fifth came very freely .--- In the courfe of fix and thirty hours, I prefcribed two ounces of the common infusion of senna, two drams of rochelle falts, four grains of jalap, and a grain of calomel; befides purging clyfters, and the ufe of the warm bath. The next day the child took four grains of ipecacuanha at two defes, and forty drops of the new wine of antimony, at four times (in the course of an hour) without any effect; and at another period, fix drams of caftor-oil, befides feveral dofes of manna.* Three days after the child got rid of the meconium, the thrush made its appearance; which was flight, but continued above three weeks.

ICTERITIA, OF INFANTILE JAUNDICE.

HE Jaundice of infants feems always to have been improperly conceived of. Those who have written only on children's difeases,

* From fuch inftances as thefe, as well as the remark already offered on the Locked-jaw of the Weff-Indies, the expediency of having recourfe to fonce fafe and effectual means of purging off the meconium feems to be evidently pointed out; more efpecially when we confider the dangerous complaints, which are faid to arife in fome of the hofpitals in Paris from an undue retention of this vifeid matter.

difeafes, have ufually paffed it over in filence, whilft others have confidered it as rather a ferious complaint, and have prefcribed as for the jaundice of adults. On the other hand, parents and nurfes have ufually accounted the common yellownefs that appears about the third day after birth (termed by fome yellow-gum) as the true jaundice. Neither of these opinions feem to me to be just; for the latter of these appearances requires no attention at all, and though infants are not fubject to the troublefome jaundice of adults, (unless infected by the breastmilk) they neverthelefs are liable to fome affections of that kind which claim fome attention. These are easily diffinguished from the common yellownefs, mentioned above, by the tunica albuginea, or white of the eyes being always very yellow; but the nails are not tinged, as in the jaundice of adults, though it is probable they ufually would be, if the complaint were long neglected, and the child fuffered to be coftive. I have waited fome days to fee if the yellownefs would go off of itfelf, as the ufual tinge does; but it has always increafed rather than diminished. It arises from viscid matter obstructing the gall-ducts, which open into the duodenum, and therefore requires a little emetic. Wine of antimony is a very proper one on this occasion, as it may likewife procure two or three ftools; but

but as children in this complaint are not eafily made to vomit, fhould the wine fail, I would advife three or four grains of the the powder of ipecacuanha, which is more certain in its operation; and the next day give four or five grains of rhubarb. Should the fymptoms continue, the emetic ought to be repeated after two or three days, and rhubarb be given about every other day, till the yellownefs difappears; which, under this treatment, never continues more than ten or twelve days, unlefs the ftools are of a very pale colour; in which cafe a little more time, as well as the ufe of the warm-bath, will be required.

Women long afflicted with jaundice, during any part of their pregnancy, though actually brought to bed in that flate, do not infect their children, unlefs they alfo fuckle them; * but, from fome flriking inflances, I have found that fuckling in that flate is capable of communicating the true jaundice to a great degree, and that it will not be cured, but by the recovery of the mother or nurfe, or by the infant being weaned, as well as properly treated.

The

* I have myfelf never met with fach an inftance; but Mr. Baumes, who has been very attentive to the difeafe, once faw an infant fo infected from the womb: bat in this cafe, the child died very foon in a very difeafed flate, the internal part of the liver being in a flate of fapparation.

The true jaundice, diftinguished by the skin being every where discoloured, as well as the whites of the eyes, seems to be much more common among new-born infants in France, than in this country; as appears by a memoir written by Mr. Baumes, and to which a prize-medal of the Faculty of Medicine in Paris has been adjudged.

In this work the various caufes and nature of the difease are distinguished; and a correspondent treatment pointed out with great accuracy and judgment. Throughout the tract there feems also to be much ingenious and plaufible theory; though I cannot agree with that able phyfician in fuppofing the jaundice to be occafioned by the retention of the meconium, otherwife than from this vifcid matter fometimes obstructing the orifice of the biliary ducts; for in the feveral inftances I have met with of the most obstinate retention of that fecretion, there has not been the least disposition to jaundice; nor can I conceive, that any part of the meconium is usually abforbed in icteric cafes, as Mr. Baumes has imagined; neither does fuch an incident appear to be neceffary in order to account for the frequency of the difeafe in that kingdom, or elfewhere.

As to the treatment, under the different circumftances there defcribed, I meet with nothing that militates against the more general account I have given of this difease, or

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the treatment adapted to it, under the form wherein it appears in this country.

INWARD-FITS.

NY derangement of the first-passages is capable of giving rife to various complaints, among which, that of inwardfits, has lately been taken notice of by fome medical people, but I think fcarcely deferves the name of a difeafe. It demands attention, however, because fo much has been faid about it as to expose the fond parent to continual apprehensions, left this fubtile difease should be infensibly at work, and making way for more fevere and outward convulsions.

A conftant fymptom in this kind of fit, as it is called, is the infant's little mouth being drawn into a fmile; which whoever has noticed must have beheld it with pleasure. And if the complaint extends no farther than this fmiling, which is generally in its fleep, it arifes merely from a little wind, and is certainly harmlefs, becaufe the wind in this cafe is not really confined; and therefore an immediate recourfe to pukes or purges, is more likely to do harm, by ftraining the ftomach, or by relaxing the bowels, than to do any good. Every body is acquainted with the effects of different degrees of irritation of the nerves, from the fenfation produced by tickling with a feather, to that of a hard gripe

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gripe, or a violent ftroke. The first may be faid to be pleafing; and fuch, I doubt not, is the flimulus in queflion on the nervous coat of the ftomach of little infants, and therefore produces fo agreeable a fmile, that I could never confider it as an indication of pain. Indeed, I know of no complaint that ought to be termed inward fits; and I mention this, becaufe nurfes are continually talking to us about them, when children are perfectly well, and often give the fond parent needlefs diftrefs, as well as many an unpleafant medicine to the child.* They are at the fame time treating the true convulfion, whilft flight, in the fame way, being led into the error by the ideas of inward fits; a term they are ever using but have no precise ideas of, nor do any two of them mean the fame thing by it. It were therefore better, perhaps, the term were altogether abolished; as the child is either evidently convulfed, or has no kind of fit, at least none for which any remedy can be offered. +---If the child should C 2 fleep

* It were certainly a good rule, to adminifier no medicine to infants for fuch fymptoms as do not indicate fome real complaint, unlefs where experience proves that fuch fymptoms neglected are apt to forerun fome well known difeafe.

† Infants, as well as adults, do fometimes, indeed, die fuddenly without any manifeft convultion. But this more frequently happens after over-feeding.

fleep too long, and this finile fhould often return, the infant may be taken up, gently tapped on the back, and its flomach and belly be well rubbed by the fire; which is all that can be neceffary. This gentle exercife will bring a little wind from its flomach, and the child will go to fleep again quietly.

This complaint, however, is largely treated of by fome writers, and Dr. Armstrong wifhes to give a few drops of the wine of antimony; but it is very apparent, that when he confiders it as worthy of more attention than I have just now advised, it is either a true convultion, in which the eyes are difforted, and the mouth is difcomposed, instead of putting on a smile, or eife he is preferibing for another difeafe under the name of inward-fits, which former writers have treated under the head of diforders arifing from coffiveness and wind. But if this little turn of the features should arife from constant over-feeding, it were endles to administer emetics; the cause of the complaint

ing, and arifes from a fpafm of the ftomach; or fometimes of the heart or langs; and infants may then be f id to die of inward-fits, there being no external convultion; but this is, by no means, the kind of affection utually understood by that term. plaint is obvious, and upon the removal of it the remedy must rest.

Such has ever been my opinion of this much-talked-of complaint; and indeed I have not to this day, after a good deal of attention to infants, feen any thing myfelf to induce me alter it; or I would in this edition, have cheerfully retracted the preceding obfervations. As I wifh, however, to afford all the information I can on every complaint, I have to observe, that it is conceived by fome gentlemen of great refpectability and experience, that though the term, inward-fits, has been often mifapplied, there is really fuch a complaint, and that it generally proves fatal. Befides a little bluenefs of the lips, and flight turning up of the eyes, often noticed by nurfes, this complaint is defcribed to me as attended with a peculiar: found of the voice (fomewhat like the croup) and a very quick breathing, at intervals; and is fuppofed to arife from a fpalm of the ftomach, lungs, or other vital organ; a complaint I have indeed too frequently feen,* but certainly very different from that ufually known by inward-fits.

Thefe fymptoms are faid frequently to attack the child in its fleep; and in their commencement will go off upon taking it up C_3 from

* See Note, pages, 27, 28.

from its cradle. They are likewife obferved to be induced by fucking or feeding, and to be increafed upon any little exertion of body, or transfient furprife, and in this manner to recur for a length of time, before they become alarming. The remedies propofed for the cure of this complaint are an emetic, on the first attack, and afterwards volatiles and fetids; but, as it has been obferved, not often to good effect.

In regard to coffiveness and wind, which have been faid to be the parent of what nurfes commonly term inward-fits, as they do not always arise from one and the fame cause, and are productive of other complaints than those above mentioned, I shall confider them by themselves; which, it is prefumed, will be purfuing a more rational plan, than adhering to a term obscure in itself, and indicative of a disease not well defined, and which therefore may tend to mislead the generality of readers.

DISORDERS

DISORDERS arifing from COSTIVENESS and WIND.

I T has been ufual with ancient writers, when concifeness and accuracy were not fo much confidered as in the prefent day, to treat of cofliveness and wind as diffinit heads of complaint; and for the reasons aforementioned, as well as from this little tract being calculated for general usefulness, and not merely for medical readers, it may not be altogether improper to comply with this custom.

Wind is but a mere fymptom of fome preceding or attending complaint; nor are its troublefome effects either occafioned or increafed by air taken in with the food, as many people have imagined; atmofpheric air being effentially different from that produced by indigeftion, whether owing to the weaknefs of the ftomach, as it is called, or the improper quality or quantity of the food taken into it. It may, however, prove a fource of many complaints, and create watchfulnefs, ftartings, hiccoughs, vomitings; and even convultions, if not timely attended to, efpecially if the infant is coftive.

Coftivenefs is either conftitutional, or accidental, which ought always to be diftinguiflied, the former being oftentimes harmlefs; and, indeed, children of fuch a ha-

bit

Diforders arifing from

bit of body are frequently the most thriving. If the mother should be very constipated, her children generally are fo; and fuch a difposition, (whilft they continue in health) ought not, I believe, to be counteracted, though it will be prudent carefully to watch it. And this will be efpecially neceffary, in the cafe of children who are fubject to fits; fine lufty infants being often feized with violent convulsions, without any other apparent caufe than a natural coftive state of the bowels; and as uniformly recovered from the fits, merely by procur ing ftools, and breaking off the wind. And this difposition to fits has taken place long. before the ordinary period of teething; and has continued till children have been a twelve-month old; at which time the folids, and efpecially the nervous fystem, has appeared to get stronger. In such habits, a quarter of an ounce of manna, or the like quantity of the fyrup of rofes, may be put into any liquid, and as much of it given by tea-spoonsful, as shall open the belly: or a tea-spoonful of castor-oil, * or from five to ten drops of the compound tincture of aloes, may

* Oil of caftor may be rendered very acceptable to children, if rubbed down with gum arabic, and a little manna, and afterwards made into a draught or mixture with fome dill-water, and the addition of a drop or two of the compound fpirit of ammonia, where that may be proper.

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Costiveness and Wind.

may be taken two or three times a-week. And here it may not be ufeless to observe, that rhubarb will not be a fit purgative, though it be joined with magnefia, which will not fufficiently counteract its reftringency. Another reafon for objecting to this compound, is that of its being the almost conftant prescription of nurses on every occafion, whole indiscriminate use of it is generally needlefs, and fometimes prejudicial; rhubarb alone, in ordinary cafes, anfwering all the purpose intended, whilst the magnefia makes an unneceffary addition to the bulk of the medicine, which fhould always be a-voided for children. A few grains of mag-nefia in a fpoonful of water, and fweetened with a little manna, forms a much neater medicine, and in costive habits, which ufually abound with acidity, anfwers very well in early infancy.

But if the child be otherwife in health, it has been faid, it is, in general, inadvifeable to do much to counteract the natural habit of body. I have formerly, even during the month, directed manna, even to half an ounce at a time, to very little purpofe, unlefs it were almost daily repeated, and have at other times given from three to five grains of jalap; till I learned there are fome conflictions, even in infants, where the bowels cannot be kept open without a daily exhibition of fome purgative medicine. Diforders arifing from

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cine, and that many fuch children are as well left to themfelves, and require only to be watched. If a ftool fhould be wanted, however, a fuppofitory made of a little flip of paper, twifted up, and well moiftened with oil, may be very eafily introduced, and will generally anfwer the purpofe: or fhould this fail, a bit of *Caftile* foap may be introduced in like manner.

Should fuch a coftive flate of the bowels produce griping pains, which may be known by the drawing up of the legs, or of the fcrotum, and a certain manner of crying; or fhould the cofliveness be accidental, it must fpeedily be remedied; and if the occasion of it be an improper food, which is very often the case, the food must immediately be changed. If the child be not usually costive, rhubarb * is often the best purgative, as it ftrengthens the bowels afterwards, infants being much more subject to an over-purging than to almost any other complaint,

* Some writers have in this cafe recommended oil, and particularly the *French*, who adminifier oil of almonds to infants much too frequently. Mr Le Feubre de Villebrune therefore, in the tranflation with which he has honoured this work, gives the preference to oils; but I muft beg leave, in turn, to differ from him, being perfuaded, there are few cafes befide diforders of the cheft, in which any kind of oil, but that of caftor, will not be injurious to young infants, and particularly in affections of the firft-paffages. Costiveness and Wind.

complaint, efpecially if brought up by hand. It fometimes happens, however, that much more powerful medicines than rhubarb may be required, whether the child be naturally coffive, or not; and in fuch cafes, much caution is neceffary on the part of parents and nurses: For, where a proper dose of fenna-tea has proved ineffectual, it is furprifing what large dofes even of rough pur-ges have been given in vain, or fometimes to the injury of the child. On fuch occafions, I would rather advife a recourfe to clyfters, and efpecially those made of fuccotorine aloes. From five to twenty grains, according to the age of the infant, diffolved in boiled milk. will rarely, if ever fail of procuring two or three ftools, especially if proceeding two of three hoors, effectivity in preceded by the exhibition of a purge. But even draftic clyfters fhould be administered with caution, and ought not to be very of-ten repeated, effectivity to very young chil-dren; though lefs hazardous, in every view, than the frequent repetition of purges of a fimilar kind.

It may be neceffary here to obferve, that purgatives for infants ought generally to be made potentially warm, by the addition of a little ginger, pounded cardamom-feed, carraway-tea, or dill-water; which is of more confequence than is ufually apprehended. I have known a careful attention to this circumftance alone, happily fupprefs complaints in Diforders arising from

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in the bowels, which had long continued obflinate, though, in other refpects, properly treated.

As there is ufually too much acidity in the first-paffages in costive and windy habits, a little magnesia may be given for a few days after the costiveness has been removed; and if the child be fuckled, the nurfe's diet must be attended to. If any flatulency should still remain, (which will not often be the case if it has arisen merely from constipation), a little dill-water is the most harmless carminative. But should it be an attendant upon a lax state of the bowels and indigestion, its remedy will consist in the removal of those complaints, which will be noticed in their place.

I have hitherto fpoken chiefly of Coftivenefs; wind being, however, likewife fometimes a real complaint, though it fhould not happen to be fo confined as to become an occafion of fits. The only inflances of this kind, indeed, that I remember having feen, have been in new-born and very lufty infants, whofe mothers have alfo been peculiarly diftreffed by affections of that kind. This is, indeed, a fomewhat anile way of fpeaking, but it flates the precife fact; and one inflance of an infant fuffering in this way was fo remarkable, that it may be worth noticing in this place.

In this cafe, the meconium began to pafs off foon after birth, but not without repeat-

ed

Costiveness and Wind.

ed clyfters, purgatives, and the warm-bath, and was peculiarly vifeid, as well as in vaft quantity. Neverthelefs, the infant appeared, for feveral days, likely to be ftrangled, and was black in the face, merely through the abundance of wind in the first-paffages; though it was continually breaking off both by the mouth and the bowels, and by that peculiar, and very loud noife, when it came upwards, frequently obferved in the hyfte-rical fpafm of adults, and continuing for feveral hours together, fo that the infant was often thought to be dying. The whole face, except the nofe, became exceedingly fwelled, fo that the infant could fcarcely open its eyes, though without any difcolouration of the skin; being probably ow-ing to wind diffused through the cellular membrane; the tumor fubfiding immediately upon getting rid of the wind from the stomach and bowels.

These fymptoms, however, yielded to carminative juleps, and purging medicines; and the infant after the meconium was all come away, was freed from every complaint, without any farther semblance of fits, though frequently apprehended.

WATCH-

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WATCHING, or WANT of SLEEP.

T HIS is frequently a fymptom of the foregoing complaints, and is to be removed by opening the belly, and afterwards adminifering fome pleafant and carminative pearl-julep; * which will then frequently act like an opiate + by reftoring reft. Sometimes, indeed, this has fucceeded fo well, when given in large dofes, that I have been fufpected of having really given fome fleeping medicine; which would in thefe cafes prove exceedingly hurtful, as the watchfulnefs is generally a mere fymptom, and not a difeafe; though when very obftinate, it is

* This remedy has been fo called from having been formerly composed of prepared pearls, and the name is here retained because familiar to some readers; but the pearls having no virtue peculiar to them, are very feldom made use of. The julep is now prepared from the thell-powders, or teftacea. -As this term (or teffaceous powders) occurs very frequently in this work, it may not be amifs to obferve, that teftacea confift of prepared oyiter-fliells, crabs claws, crabs eyes, pearls, and red-coral; which differ but little from each other. They are likewife denominated absorbents, in which latter clafs, are alfo ranked prepared chalk, and magnefia; the former is more powerful and binding than any of the teftacea, and the latter is, on the other hand, moderately opening .- Either of them may may be given to infants, from three to ten grains at a dole, three or four times a day.

+ See HARAIS De Morbis acutis Infantum.

Want of Sleep.

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is fometimes the harbinger of epilepfy, and then requires purgative medicines. I cannot, therefore, avoid taking notice in this place, of the destructive custom amongst nurfes, of giving opiates, in one form or other; which, however ufeful on proper occasions, are fure to act as a poison, and fometimes not a very flow one, when injudicioufly administered, and never can be more fo, than in a coffive state of the bowels.

Watchings may arife from worms, purging, gripings from acrid breaft-milk, or other food, and from indigeftion, as well as from every thing capable of producing pain; each of which will be confidered in their proper place. The feat of this complaint is, indeed, ufually in the first paffages, and in very young infants is frequently owing to costiveness. I shall only observe farther, if watchfulness be confined only to the night, it is probable, the child fleeps too long in the day time, which may be remedied by keeping it moving, and playing with it throughout the day; of which farther notice will be taken, under the head of Management of Children.

The preceding complaints would naturally lead me to confider the Thrush, and other diforders connected with the flate of the first-paffages; but it is neceffary first to mention one or two of a very different kind, which either exist at the birth, or D 2 appearing

40 Imperfect Clofure of the

appearing very foon afterwards, would o. therwife be much out of place.

IMPERFECT CLOSURE of the FORAMEN OVALE, and CANALIS ARTERIOSUS; with other PRETERNATURAL CONFOR-MATIONS of the HEART.

THESE morbid deviations appearing in different parts, * have in all the fame tendency, viz. in a greater or lefs degree, to obftruct the paffage of the blood through the lungs, which in fome inftances has continued nearly the fame as in the unborn-fetus. The peculiarity, is fometimes in the *pulmonary artery*, which is conftricted, or clofed, as it rifes from the right ventricle; at others, in the *feptum cordis*, which has an unnatural opening, affording a free communication between the two ventricles; and fometimes in the imperfect clofure of the *foramen ovale*, or the *canalis arteriofus*.

These fources of difease are mentioned merely with the view of pointing out the symptoms by which they may be known, and not of attempting a remedy; which is out of our power. The recital, however, may ferve to prevent fruitless attempts, and perhaps

* See Morgagni, Epif. 17. Art. 12. Lond. Med. Journal pag. 4. and Med. Observ. & Inq. vel. vi. perhaps the aggravation of the fymptoms, and confequent diffrefs of the patient, where upon due knowledge of the diffeafe, art has, evidently, nothing to offer. The imperfections are owing merely to an original malformation of parts, or in the two latter inflances, to a deficiency in the powers of the fyftem foon after birth; the only time in which that diverfion to the circulation can take place, which nature has intended upon the change made in confequence of refpiration.

The precife time when this change fhould take place, is not attempted to be fettled, the paffages being open in children of very different ages; nor do both always clofe at the fame time. It is conjectured, however, that this procefs ought to begin from the birth, as it is found to do in the remains of the veffels of the navel-ftring; * fo that, although the fatal apertures in the heart fhould not be actually impervious at the end of fome months, it is imagined a conftriction ufually takes place, and that, at leaft, fome check is given to the blood's paffing from one fide of the heart to the other, in the free manner it does in the fe-D 3 tus,

* It is probable, however, that they are not very firmly cloted for fome time, as I have eafily forced the veffels open, by an injection, in children who died at the end of the month. tus. This, it is natural enough to conceive, and I apprehend, is owing to a greater quantity of blood rufhing into the lungs, in confequence of refpiration, (which leffens the difficulty of entering that organ); by which means, a greater quantity flows into the left auricle from the pulmonary veins, which filling the part, prohibits an entry from the right. Upon the like principle, the *aorta* being more diftended by a large quantity of blood from the left ventricle, prevents the pulmonary artery from emptying itfelf into it by the *canalis arteriofus*.

Sometimes one of these apertures is found open, and the other closed up, especially the *canalis arteriofus*, which is of the greater confequence; the *foramen ovale* having in feveral instances been found pervious in adults; and it is imagined is always fo, in those divers, who can remain the better part of an hour under water.

Whether the preternatural aperture be in the veffels, auricles, or ventricles, or wherefoever any morbid ftricture may be, whenever it may prove of any confequence, the conftant fymptoms attending it are a difcolouration of the face and neck, with a floe-blue, or leaden colour of the lips, fuch as is met with in fome fits of afthma. Thefe take place foon after birth, and the difcolouration is increafed, and attended with difficulty Foramen ovale, Sc.

difficulty of breathing, as often as the child is any wife agitated; but are not relieved by procuring flools, by the warm-bath, or any other mean made ufe of as a remedy for fits; nor can be, but by the child being kept as tranquil as poffible.

If the aperture be in the canalis arteriofus, children ufually fink very foon under the complaint, of which I have feen one instance only a few months fince; but if the aperture be in the inferior parts of the heart, infants may furvive for months, or even for years. A recent inftance of which, with an accurate account of the difeafe, is recorded in the third vol. of the Medical Transactions of the College. In such instances, the fystem having been accustomed to the effects of this derangement, is better able to withstand them; the patient, however, can endure but little motion, the heart becoming thereby furcharged with blood, and refpiration rendered more difficult; hence alfo the blood is detained in the extremities, and the face, neck, and hands become particularly difcoloured. Some time, indeed, before the patient finks under the difeafe, the fymptoms are aggravated, and almost the least motion endangers fuffocation.

Erysi-

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ERYSIPELAS INFANTILIS.

IN the former edition it was obferved, that this complaint did not appear to have been diffinely noticed by any preceding writer.* This being now, confeffedly, the cafe (at leaft in refpect to the form in which it now appears) it feems neceffary to give a name to the difeafe, which, it is apprehended, may with propriety be termed *Erifipelas In*fantilis.

It is a very dangerous fpecies of the fpurious, or erifipelatous inflammation, which I have not met witn, but in lying-in hofpitals. The ordinary time of its attack being a few days after birth, it was remarked in the

* Hoffman, indeed, though he makes no mention of any fuch complaint in his *Morbi infantum*, has the following intimation in his chapter *de Febre Eryfipelacea*, and it fhould therefore feem, was acquainted with that fpecies of the difeafe which appears in the more fimple form of eryfipelas; but which he had noticed only in the region of the belly...." Umbilialem regionum in infantibus frequentius infeftar, ac inde per abdomen fpargitur, cum gravibus pathematibus, funefto ut plurimum eventu."

De Febre Erysipelacea, sec. i. cap. xiii.

The French have likewife fpoken lately of a fomewhat fimilar affection, combined with different endemic complaints infecting crouded hofpitals: the difeafe, however, does not appear to have been any where noticed in its *fimple* form. the former edition, that it was thought never to appear later than the month; but I have fince feen it in a child of two months old : and the late Dr. Bromfield informed me, that he had noticed it in a child much older. It feizes the most robust, as well as delicate children, and in an inftaneous manner; the progress is rapid; the skin turns of a purplish hue; and soon becomes exceedingly hard.

The milder fpecies of it appears often on the fingers and hands, or the feet and ankles, and fometimes upon, or near the joints, forming matter in a very fhort time. The more violent kind is almost always feated about the pubis, and extends upwards on the belly, and down the thighs and legs; though I have two or three times feen it begin in the neck. The fwelling is but moderate, but after becoming hard, the parts turn purple, livid, and very often mortify; especially in boys, when it falls on the scrotum; the penis fwells, and the prepuce puts on that kind of emphyfematous, or windy appearance, which it has in children when a stone is sticking in the passage; or in the dropfy of the fcrotum.

Upon examining feveral bodies after death, the contents of the belly have frequently been found glued together, and their furface covered with inflammatory exudation, exactly fimilar to that found in women who have

Erysipelas Infantilis.

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have died of puerperal fever. In males, the tunicæ vaginales have been fometimes filled with matter, which has evidently made its way from the cavity of the abdomen, and accounts for the appearances of the organs of generation jult now defcribed : in females, the labia pudendi are affected in like manner, the pus having forced a paffage through the abdominal rings.

Various means were made use of at the Britifh Lying-in Hofpital without fuccefs, though the progress of the inflammation feemed to be checked for a while by faturnine fomentations and poultices, applied on the the very first appearance of the inflammation; but it foon fpread, and a mortification prefently came on ; or where matter had been formed, the tender infant funk under the discharge. It is now some years since I proposed making trial of the bark, to which fometimes a little confectio aromatica has been added; from which time feveral have recovered. My colleague Dr. Garthshore, has for feveral years past directed the application of linen compreffes wrung out of camphorated fpirit, in the place of the compound water of acitated litharge which has proved more fuccefsful in checking the inflammation in feveral inftances ; neverthelefs, the greater number of infants attacked with this diforder, ftill fink under its violence, and many of them in a very few days.

Eryfipelas Infantilis.

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Since the former edition of this tract, the fame difeafe, as I apprehend, has appeared once in a new form, in the British Lying-in Hospital. In this instance, the infant was not only born with hard, and fublivid inflammatory patches, and ichorous vefications, about the belly and thighs, but other fpots were already actually in a flate of mortification. An efchar foon fpread to near three inches in length upon the fpine of the tibia, and other fmaller ones appeared about the legs, and on feveral of the toes and fingers. The parents of the child appeared to enjoy good health, and the mother had plenty of good milk, which her infant was fortunately able to take in great quantity. The child was hereby duly nourifhed ; and taking likewife every day, from the time the mortification began to fpread, from four to fix ounces of a ftrong decoction of the bark, it was supported under an excessive difcharge of matter, through this tedious difeafe. The parts affected were at the fame time frequently fomented, and were fometimes wrapped up in warm cataplasms, and at others, dreffed with theriaca, as the floughs became loofe; and were covered with compreffes wrung out of camphorated fpirit. The infant, however, loft two joints of one of its fingers, and the first of another; all the other fingers, and the toes, contrary to expectation, throwing off the mortified parts, were

Aphtha, or Thrufs.

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were recovered entirely, and the child was fent out of the hospital perfectly well; and I had the fatisfaction of feeing it in good health, feveral months afterwards.

APTHÆ, Or THRUSH.

HAVING confidered the above early com-plaints, I return to those which owe their immediate origin to fome affection of the first passages, as they are called.

It is amongst the vulgar errors, that the thrush is a very harmless complaint, or is even defirable to a child in the month; for it is faid, if it does not then make its appearance, it certainly will at a more advanced age, and will then prove fatal, or will, at least, attend the patient in his last illness. The fact is, it is a difeafe of debility, and therefore attacks very young, and very old fubjects, efpecially if otherwife weakened. From the above miltake, however, the diforder is often neglected in the beginning, whereby the acidity in the first passages is fuffered to increase, which always aggravates the complaint. It is, indeed, a much milder diforder in this island than on most parts of the Continent (through a priori we might perhaps, fupofe it would be otherwife) particularly in France, where it reigns as a malignant epidemic, especially in the Hotel

Aphtha, or Thrush.

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Hotel Dieu, and Foundling Hofpitals, known by the names of Muguet and Millet. + The thrush, however, is as much a difease, as any other that appears in the month, and is connected with most of the foregoing complaints; a proper attention to which may very frequently prevent it.

This diforder is fo well known, as fcarcely to require any defcription, and generally appears first in the angles of the lips, and then on the tongue and cheeks, in the form E of

+ It has been already remarked, that feveral hofpital difeafes in *France* are more complex than with us, poffibly from their infirmaries receiving a much greater number of patients than ours, and their apartments and beds being confequently lefs clean, as well as the air more foul, and difpofed to multiply the contagion.

This is remarkably the cafe in regard to the difeafes of infants, whole temperament is a fingular union of debility and fpafin, which the French have apply termed Laxité vibratile.

The Mugnet is a firiking inflance of the above mentioned tendency, it being altogether an hofpital difeafe; which though diftinguished by this name, appears to be a malignant thrush, and is frequently ly attended with a species of the infantile erysipelas. * When so accompanied, it is faid to be constantly fatal, unlefs the hard and tumid parts terminate in benign absceffes, and suppurate kindly; which is rarely the cafe, they being more commonly found to mortify.

* Sec Memuirs de la Societé Royale, de Médicine anno 1779.

Aphtha, or Thrush.

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of little white specks. These increasing in number and fize, run together more or lefs, according to the degree of malignity, and compose a thin, white cruft, which at length lines the whole infide of the mouth, from the lips even to the gullet, and is faid to extend into the stomach, and through the length of the bowels; producing alfo a rednefs about the anus. When the cruft falls off, it is frequently fucceeded by others, which are ufually of a darker colour than the former. But this is true only in the worft kind of thrush; for there is a milder fort, that is fpread thinly over the lips and tongue, which returns a great many times, and always lasts for feveral weeks. I have feen this fo very often the cafe, that when I obferve a child to have the complaint very ...; lightly, and that it does not increase after two or three days, I venture to pronounce it will continue a long time, but will be of no confequence. Care, however, ought to be taken that the child be not expofed to cold.

The thrush is faid to be generally attended with fever, but this is not ufually the cafe where the thrush is an original difease but when confequent to fevere bowel complaints, eryfipelas, and other infantile diforders, it is, indeed, often accompanied with fever, and when fo, proves either favourably critical, or the infant usually finks very foon. Aphtha, or Thrush.

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foon. In ordinary cafes, however, I am confident in nine out of ten, there is not the leaft fever, though the mouth is often fo much heated, as to excoriate the niples of the nurfe, and becomes fo tender, that the child is often obferved to fuck with reluctance and caution .- It is an old obfervation amongst nurses, and there is some foundation for it, that very long fleeping, in the course of the first week or two, is often a forerunner of this complaint.

It has long been a received opinion, that the thrush must appear at the anus, and nurfes will feldom allow it to be cured if it does not; but the truth is, that its appearance there is only a mark of the degree of the difeafe, and not in the least of its cure, and is not, therefore, generally to be withed for. The rednefs about this part is occafioned by the fharpness of the fecretions in the bowels, and confequently of the ftools, which lightly inflame and fometimes excoriate the parts about the anus, and in a bad thrush will do so long before the complaint is going off; but in the lighter kind, no fuch effects are produced, or are, at leaft, very flight. And, indeed, this rednefs has been fo often mentioned to me as an indication that infants must certainly have already had a flight thrush, or be likely to fuffer by it very foon, where children have efcaped it altogether; that I have ventured to imagine E 2 fuch

Aphthæ, or Thrush.

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fuch infants may be leaft of all liable to it, if otherwife in good health; at leaft, my experience feems hitherto to fupport that idea. And I have even conceived, that the acidity of the first passages being in fome children more confined, may prove a remote cause of fuch infants being troubled with the thrush; whilst others by an open belly, and firmer *viscera*, may escape it, at the expence only of this foreness of the external parts, which often continues for feveral days.

The remote caufe of this difeafe, feems to be indigeftion, whether occafioned by bad milk, or other unwholefome food, or by the weaknefs of the ftomach.—Perhaps thick victuals, particularly if taken hot, and made very fweet; alfo covering the face of the child when it fleeps, or its breathing the confined air of the mother's bed, may be amogft thefe caufes, and ought therefore to be avoided.—The proximate caufe, * is the

* If fuch a term, after all that Gaubius and later profeffors have advanced, may be ufed in any fenfe diftinguifhable from the difeafe itfelf, it is prefumed, that the circumfances enumerated may be diftinguifhed from those termed remote caufes. Should this not be allowed of, the term proximate caufe, feems to be perfectly ufeles, and one to which we can never affix any precife ideas; the caufe and the effect being confounded.—But I do not mean to enter far into fuch a controvers, and have touched upon

the thicknefs, or acrimony of the juices fecreted from the mouth, fauces, ftomach, &c. producing heat and forenefs in thefe parts.—A tea fpoonful of cold water given every morning has been a good prophylactic, or preventive.

Much has been faid in favor of emetics, efpecially wine of antimony, as being almost a fpecific for this difeafe, but I cannot fay it has proved fo with me; nor can I fee any fufficient caufe for departing from the more ancient practice, in the treatment of this very common complaint.

There can be no objection, after having properly opened the bowels, to administering an emetic, and where the thrush is of a dark colour, and the whole infide of the checks are lined with it, I believe it will be useful, by emptying the stomach of the crude juices oozing into it from the glands of this part. But, I think it would be almost as endless, as it would generally be prejudicial, to perfevere in the use of emetics, for days, and even weeks together, and is both a fevere, and an unnatural method of treating E_3 a

upon it rather by way of apology for the ufe I have made of the term, in this and other parts, and to mark an obfcurity which I leave thofe to fettle whofe province it may be to take the lead in fuch matters. It were well, however, if fome able pathologift could affix fome idea that might be univerfally adopted, fo that when we meet with the term in different authors, no reader might be at a loss for the meaning.

a tender infant, in which the bowels are always the most natural outlet for its complaints; on which, therefore, nature uniformly throws the offending matter on almost every occasion, as appears plainly in teething, in which the first passages cannot be primarily affected.

I believe, therefore, where there is no fever, nor any uncommon fymptom, teftaceous powders are the beft and fafeft remedy; which may be joined with a little magnefia, if the body be costive; or if in the other extreme, and the child is very weakly, two or three grains of the compound powder of contrayerva in its stead. Some fuch preparation should be administered for three or four days fucceffively, and afterwards fomething more purgative, to carry down the fcales as they fall off from the parts. For this purpofe, rhubarb is generally the beft; but when the thrush is very violent, is of a dark colour, has come on very rapidly, and the child is lufty and ftrong, a grain or two of the powder of fcammony with calomel, * may be joined with it, agreeably to the

* A very good method of administering this powder, and other metalline preparations, is that mentioned by *Dr. Armstrong*, by directing it in the form of a pill which may be broken into fmall pieces, and given mixed up with the child's food; by which means, it will not precipitate, and be left at the bottom of the spoon, as is sometimes the case when such remedies are administered in powder.

the idea of HEISTER; but this must be given with caution. After the purgative, the testaceous powders should be repeated for two or three days as before, till the diforder begins to give way. Afterwards a tea-spoonful of camomile-tea, or a few drops of the compound tincture of gentian, well diluted, may be given two or three times a day with advantage.

The choice of the teftaceous powders, on which fome writers have faid fo much, is, I believe, of very little importance; the pureft and fofteft are preferable. The defign of thefe medicines, being to abforb and correct the predominant acidity,* their effect will be difcovered from the kind of ftools that fucceed, and the dofe may therefore be increafed or diministed, or they may be altogether difcontinued, as circumstances direct. In the mean time, if the child is fuckled, the nurfe's diet should be attended to, and in general, her usual quantity of porter or ale, (which is almost always more than fufficient) should be diministed.

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* The French phyficians are of opinion, that the thrufh is owing to what they call a putrid alcaline humour, or fomething analogous thereto, rather than to an acid. But this cannot be the cafe in the ordinary thrufh, as is manifert both from the appearance, and the four fmell of the ftools, as well as from the more certain remedies for the complaint, which are alcalis and abforbents.

In regard to applications to the part, it is neceffary to obferve, that as they have little to do in curing the complaint, it will be improper to have recourfe to them very early. I know, indeed, it is very common to begin with them, but they ferve only to increafe the forenels of the parts, (especially in the manner they are generally used) and to give a deceitful appearance of amendment. If the infide of the cheeks and tongue are thickly covered with floughs, it may fometimes be convenient to clean the mouth once a day; but it will in general be useles, till the complaint is past the height, the sloughs disposed to fall off, and the parts underneath inclined to heal. Proper applications will then have their ufe, both by keeping the mouth clean, and constricting and healing the raw, and open mouths of the excretory veffels.

For this purpofe, an hundred different lotions and gargles have been invented, which from the earlieft times have all been of an aftringent nature.—Honey of rofes and fpirit of vitriol, or of fea-falt, as recommended by Etmuller and Dr. Shaw, form a very good one; but nothing is preferable to borax, which fome advife to be mixed up with fugar, in the proportion of one part of the former to feven of the latter: a pinch of this put upon the child's tongue will be licked to all parts of the mouth. But

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I prefer a mixture of borax and common honey, (about two fcruples or a dram of the former to an ounce of the latter) which hangs about the fauces better than in the form of powder. Either of thefe may be made ufe of as often in the day as fhall be neceffary to keep the parts clean, which they will effectually do, without putting the infant to pain, by being forcibly rubbed on: I muft own, I have frequently been diftreffed, at feeing nurfes rub the mouth of a little infant, with a rag-mop, as they term it, till they have made it bleed; and this operation they will often repeat half a dozen times in a day.

It only remains to take notice of the black thrush, as it is called, which is confessedly a very uncommon complaint in the infant flate. Dr. Armstrong fays he has never met with it. I have feen only two inflances of it, which were in strong and healthy children; but the parts were not perfectly black, and if that be intended by the name, these cases might not be precisely that complaint: they, however, both proved fatal. After the stromach and bowels have been cleansed, I believe, a decosition of the bark, with a little aromatic confection, is the most likely medicine to be of fervice, and is fometimes neceffary in the worst kind of common thrush, when the succeeding floughs are ve-

ry

Red-Gum.

ry opake, thick, and of a dark colour; which is, however, always a dangerous fymptom.

The RED-GUM, or BENIGN-ERUPTION.

THE red-gum is an efflorefcence on the fkin, appearing ufually in fmall fpots, often confined to the face and neck; but at others, it extends to the hands and legs, and even the whole body, appearing in very large patches, and fometimes raifed above the furface. It will likewife appear in the form of fmall puftules, filled with a limpid, or fometimes a purulent or yellow liquor; at least, 'I have never known what name to give this kind of eruption, but that of a rank red-gum, as it happens only in the month, or foon afterwards, and never gives any trouble. There is another fpecies as fmall as pins heads, or even their points ; firmer than the former ; often of a pearl colour, and opake, which has generally been accounted a kind of redgum; but it has of late been fuggested, might for distinction fake, be termed whitegum.* Every species of this eruption is produ-

* It is to this complaint, that Vogelius feems to give the name of *achores*; but the old writers differ in this refpect—of that complaint, however, more will be faid in another place, when fpeaking of diforders deferibed under obfolete terms.

Red-Gum.

produced by the fame caufe as the thrufh, but can fcarcely be termed a complaint, being a kindly effort of nature to throw off fome acrimony; confequently an evidence of the ftrength of the conflitution, as the thrufh is, ufually, of its weaknefs. In the former, nature throws off the offending matter on the furface more completely than in the latter, and therefore, when the eruption is flight, requires no affiltance.

On this account it is, I apprehend, that writers have not ufually taken notice of it. though it should seem requisite, if only for the fatisfaction of parents, who are sometimes distressed on account of it, especially if it be of the more extensive and rank species. It is neceffary only to give a little teftaceous powder, or magnefia, according to the state of the bowels, and to keep the child moderately warm, otherwife the rafh striking in, the acrimony will fall on the first-paffages, and be fucceeded by fickness, or purging, (till the eruption appears again on the skin) or not unfrequently by the thrush, or a slight return of it, if the child has lately recovered from it.

ERUP.

ERUPTIONS on the SKIN.

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I T is, by no means, my intention to enter largely into this extensive subject, but imperfectly understood, perhaps, even to this day. In another part of the work I shall treat of the scall'd-head, and two or three other troubless a strength of the skin, but shall at present confine myself to such eruptions as are peculiar to the state of infancy.

Infants are liable to various anomalous kinds of rash, both in the mouth, and till the period of teething is over. The early ones may be regarded as a fort of red-gum, and children who are most subject to them, generally have their bowels in a better state; the rash carrying off, as has been faid, the acidity * with which they fo much abound.

It may be remarked, however, that when infants at the breaft are inclined to frequent returns of fome eruption on the fkin, if the child be always indifpofed at fuch feafons, the rafh will often be found owing to fome ill quality in the breaft of milk, which ought therefore to be examined, and particularly in regard to its tafte. On fuch occasions I have

* See Harris, Pages 22, 23.

have found, that milk which has been above a twelve-month old, has contracted a very unpleafant flavour, and that upon changing the wet nurfe, a very ill looking rafh has foon afterwards entirely difappeared, together with the other complaints.

One species of these early rashes often takes place about the time of teething, and not unfrequently at the decline of fevers or fevere bowel complaints; infomuch that, upon a fudden appearance of it during a ferious illnefs, I have often ventured to prognosticate the recovery. This rash very much refembles the itch, both in regard to the little watery heads and foul blotches; and is confined to no particular part of the body, though it appears more frequently about the face and neck. Indeed, I have feen the whole body fo covered with it (and mixed with an eruption about the face, of a different appearance, and evidently red-gum) that in a confultation, it has been by fome taken to be the true itch. This eruption is certainly falutary, and even critical, requires nothing but to avoid taking cold, and is mentioned only becaufe it is not an uncommon appearance, and parents who are unacquainted with it, are apt to be alarmed at it.

But there is a very common rafh that calls for more attention, and to which medical writers have given the name of *Crusta lactea* F (Lactu-

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(Lactumen, or milk blotches), which has a very unpleafant appearance, but is notwithftanding equally innocent with the former, and even prevents other complaints. I think I never faw an infant much loaded with it, but it has always been healthy, and cut its teeth remarkably well. Indeed, it falls to the lot of the fineft children, and fuch as are well nourifhed; whence fome have imagined it owing only to the richnefs of the milk.* And it is remarkable in this eruption, that however thick and long-continued the fcabs may be, the crufta lactea never excoriates, nor leaves any fcar on the parts.

It appears first on the forehead, and sometimes on the fcalp, often extends half-way over the face, in the form of large loofe fcabs, and appears not very unlike the fmall pox after they are turned. Very little, I believe, is necessary to be done; but in bad cases a perpetual blifter may fometimes be of fervice. It usually difappears of itfelf when the child has cut three or four teeth, though it may fometimes continue for feveral months, and in a very few inftances even for years : in fuch cafes, the Harrowgate, or any other fulphureous water will have a good effect ; but the medicines commonly prefcribed do nothing. I have known teftaceous powders

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The

powders and various alteratives administered to no purpofe, as people of rank are very anxious to have it removed if it be poffible. I was lately confulted for a child who had taken a grain of calomel, at short intervals, for feveral months without any benefit, and fortunately without any injury; which is rarely the cafe when powerful medicines are administered unneceffarily. This rash will now and then make mis appearance very early, and has then been miftaken by those who are not much accustomed to very young children, for the effects the venereal difease. I not long ago faw fuch a cafe, and advifed only to keep the body open with a little magnefia; the complaint got no worfe, and upon cutting fome teeth, difappeared as usual. I have known it, however, difappear fuddenly, previoufly to any teeth being cut, and after fome weeks become more violent than ever ; the infant remaining all the while in perfect health.

It were almost endless to enumerate the various kinds of rash to which infants are liable, but I mean chiefly to confine my remarks to the more important, or rare ones, and fuch as may not have been defcribed by preceding writers. Among fuch is the following, whose unufual appearance are apt to alarm parents and others, not accustomed to fee them.

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The first 1 shall notice appears chiefly in teething children, very much refembles the measles, and has been fometimes mistaken for it. It is preceded by fickness at the ftomach, but it is attended with very little fever, though the rash continues very florid for three days, like the measles, but does not dry off in the manner of that diseafe. It requires nothing more than the shell-powders, or fometimes the addition of a little nitre and compound powder of contrayerva, with a dose or two of rhubarb, or other gentle laxative, on the going off of the rash.

An eruption ftill lefs frequently met with appears fometimes after children have cut all their first teeth. I know not what name ought to be given to this kind of eruption, which breaks out in the form of round lumps as large as midling-fized peas, very hard, with a very red bafe, and white at the top, as if they contained a little lymph.

They come out fuddenly without previous ficknefs at the ftomach, are not fore, difpofed to itch, nor ever give any trouble, and are feldom feen but on parts that are ufually uncovered, and are fometimes there in great numbers, refembling the diffinct fmall-pox; but are harder, more inflamed, and lefs purulent.

Alarming, as well as unufual, as is this appearance, I believe the eruption is always perfectly

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this

perfectly harmlefs, if not repelled by cold, or improper treatment; and will dry away in three or four days : nothing more being neceffary than the little remedies, directed for the former, and to keep the child within doors, if the weather be cold.

An eruption of an appearance equally uncommon and analogous to the above, I have met with only in children of at leaft three or four years of age, and fuch as have alfo been affected with flight fymptoms of fcrofula; though I' have not feen it frequently enough to afcertain its being, in any degree, owing to that fpecific virus. It breaks out fuddenly, covering at once the greater part of the body, but occafioning neither pain nor itching, nor are children fick at the ftomach nor otherwifé ill with it, thoughit lafts for two or three weeks.

This eruption, therefore, like fome others, is taken notice of chiefly for its fingular appearance, which, though fomewhat like the nettle-rafh, is of a different figure, but may be pretty exactly conceived of by the little red lumps fometimes left by fmall-pox, after they are turned, and alfo rubbed, or picked off; efpecially after the chryftalline or warty fpecies, and where the paftules have been pretty numerous.

If the first-passages are at all disturbed, my attention is principally directed to them; otherwise to the state of the skin; and inthis cafe, I have ufually directed fmall dofes of Dr James's powder, to be taken for a few nights at going to bed, and the polychreft falt and rhubarb, occasionally, in the course of the day, with or without the addition of a little of the acitated water of ammonia.

In the courfe of a few days the eruption puts on a darker colour, is lefs prominent, and begins to fcale off in a branny fcurf, fomewhat like the meafles: but fhould no fuch change take place, the vinum antimonii fhould be taken two or three times a day; to which, if no amendment fhould foon be perceived, a few drops of the tinctura cantharidis may be added; a remedy often very efficacious in diforders of the fkin; but fhould be adminiftered with caution.

Another rafh, or rather eruption, takes place both in bowel complaints and in teething, and always appears to be beneficial. It confifts of vefications or blifters of different fizes, refembling little fealds or burns, and continues for feveral days. They come out in different parts, but chiefly on the belly, ribs, and thighs; and contain a fharp lymph, which it may be prudent to let out by a puncture with a needle, efpecially from the larger ones. No medicine is neceffary but fuch as the particular flate of the bowels may call for, which ufualy abound with.

with acidity whenever there is much eruption on the fkin.

An eruption, vulgarly termed fcorbutic, infefting the face and neck, and difcharging a fharp ichor that excoriates wherever it runs, and difficult of cure by chemical alteratives, will often yield in a very fhort time to the expressed juice of the *fium aquaticum*. From one, to four or five table fpoonfuls may be given, mixed with one or more lpoonful of new milk, three times a day, according to the child's age, and the flate of its flomach; taking care' at the fame time, to keep the bowels open by fenna-tea or other common laxative.

I shall close this account with a description of an eruption that is fingular enough, refembling very much the herpes or broadring worm, or the adust-coloured spots left on the face after an attack of St. Anthony's fire. I have feen it in various parts, but I think only on fuch as are more or lefs liable to be fretted by fome part of the infant's drefs, especially on the nates and contigu-ous parts covered by the cloths, where the blotches are always the broadeft and most rank. Were it to appear no where elfe, it would feem to be occafioned by fome fharpnefs of the urine and stools, as the skin has a very heated appearance, though the eruption, I belive, is not at all painful. It frequently breaks out before the period of teething,

teething, but the bowels are generally fomewhat difordered, and the ftools voided very green, or elfe become fovery foon afterwards. This I take to be one of thofe eruptions occafioned by fome bad quality of the breaftmilk as I have never met with it but in young infants whofe nurfe's milk has been old, and has alfo contracted a very difagreeable tafte. If that fhould not be the cafe, the rafh will probably require nothing but the light abforbent medicines before mentioned, and to guard againft conflipation. But if thefe means fhould not fucceed in a fhort time, the nurfe ought to be changed.

In all the eruptive complaints of infants, taking cold ought to be carefully avoided, and great caution be ufed in regard to all external applications, as well as keeping the belly open. If the child is fick at the ftomach, a little magnefia, teftaceous powders, or the compound powder of contrayerva joined with them, may be given now and then; or fhould the rafh be haftily ftruck in, and the child be ill, it fhould be immediately put into a warm-bath and afterwards take five or fix grains of the aromatic confection, with, or without a few drops of the wine of antimony, in fimple mint water.

Should any fcabs become very dry and hard, which the *crusta lattea* will fometimes be, efpecially when they extend to the crowp

crown of the head, and feem to give pain, they may be touched with a little cream, or with oil of almonds mixed with a few drops of the water of kali; but not a large furface at a time. Or fhould they be very moift, and caufe pain by flicking to the cap, they may be dufted with a little common powder, or with flowers of fulphur, and covered with a finged rag, but 1 hould be very cautious of doing much more; as the fuppreffion of any confiderable eruption on the fkin may occafion the worft effects efficially during the time of teething.

SORE EARS.

SLIGHT blifters and ulcerations behind the ears of infants are fo very common, that almost every parent is well acquainted with them; and in general require only to be washed with cold water, or covered with a finged rag, to keep the cap from flicking to them, and thereby giving the child pain. They are, moreover, often very ufeful, efpecially during bowel complaints, or the eruption of the teeth. But there is in fome children of a gross habit of body, and efpecially about the time of teething, a fpecies of ulcer that often requires attention, on account of its extending low down in the neck, occasioning great pain, and fpreading into

Sore Ears.

into large and deep fores, infomuch that a mortification has fometimes come on, and even the proceffus masteideus has become carious. Here fomentations will be necessary, especially those of bark, and its powder should be administered internally. Such cafes, however, do not often occur; but whenever the fores are large the cure fhould be begun by a blifter on the back, in order to draw off the heated ferum that flows to the parts. I have ufually given an opening powder of testecea and rhubarb, with a little nutmeg, and fometimes nitre, to which is added either calomel, cinnabar of antimony, or hydrargyrus cum fulphure ; the latter of which, I think I have found more ferviceable in, fome eruptive complaints in young children, than feem to be generally imagined. But above all, fome mercurial should be made use of to the fores, which, though they are often apparently inflamed, never offends them. A very clean and elegant preparation of this kind is the following,

R. Calomelan. 3j. ad 3ij. Ung. Sambuci 3j m. ftlinimentum.

A little of this liniment fpread on each fide of a piece of doubled linen cloth, and applied twice a day, will do more than all the fomentations, or healing ointments, that I have ever feen ufed; and indeed has always fucceeded with me, though I have been told

Vomiting.

told the fores had fpread deeper from day to day under various other applications. From fuch treatment I have never found the leaft ill effects, but children have preferved their health as well as if the fores had kept open, which, when benign, are certainly defigned by nature as a prefervative from fome other complaints, effectially those of the ftomach and bowels, of which I now proceed to take notice.

VOMITING.

VOMITING is certainly not a common complaint of infants, I mean when confidered as a disease, unless it be atmendant upon fome other, of which it is then rather a fymptom, or the confequence of fuch difeafe improperly treated. Neither are infants in health disposed to vomit frequently, unlefs the flomach is overloaded, the milk is then ufually ejected as foon as it is taken, and comes up unchanged. Nor is this to be confidered as a difeafe, or as calling for the difcipline recommended by fome writers. Wherefore should the refidue of the aliment be forced off the flomach by an emetic, when it has already parted with all the oppreflive abundance? This kind of puking is not attended with any violence to the ftomach : the milk, or other food feems to come

Vomiting.

come up without anyfenfible action of the ftomach, or the child being fick. Nay, it is at once fo common to fome of the finest children, that it is a faying with fome old nurfes, (though I am not very partial to many of their proverbs) that a puking child is a thriving child; and when fuch ejection comes only foon after fucking or feeding, and the aliment is caft up, fcarcely changed, matter of fact verifies the obfervation.* But if the food remains fome time on the ftomach, it will then be thrown up in a curdled state, which is an indication to attend to it, if it happens frequently. Not that the milk ought not to curdle on the stomach, which it always must do, in order to a due feparation of its component parts, and is the chief, if not the only digestion, it undergoes in the stomach. The whey and the rich oil are there feparated from the curd and earthy particles, the former being taken up by the lacteal, or milky-veffels in the bowels, + is converted into blood; whilst the bulk of the latter is carried down and expelled with the other excrementious parts of the food, and gaftric

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* See PRIMEROS : De Morbis Infant. † It is not intended in this place to fpeak with phyfiological accuracy, but merely to afford common readers fome idea of the nature of the first digestion; in the fecond, indeed, it is probable, that fome porrion

Fomiting.

tric juices, for which nature has no ufe. This curdling of the milk, therefore, is the natural course of digestion, though many writers have not been fufficiently attentive to it, and Harris has afferted it is owing to a predominant acid. But when the milk comes up in a curdled state, it proves that the stomach having digefted what it had received, hath not power to push it forward into the bowels, and therefore throws up a part of it. * If this be the cafe, the ftomach may perhaps require to be emptied of its whole contents, which may be eafily done by giving a little warm water, or camomile tea. The caufe of the indigeftion was an accidental repletion; that removed, together with the confequent foulnefs, or bad juices of the ftomach, the effect alfo will generally ceafe, and unlefs the vomiting returns, from any farther injury the repletion may have occafioned, it requires nothing more. To diffrefs G

tion of every conflituent part of our food may be farther prepared to become nutritious; the thinner ferving to renew the finer parts of our fyftem, and the groffer, fuch as the earthy particles, &c. more adapted to the renovation of the mufeles, tendons, bones, &c. may be deposited in these parts.

* I have known a child throw up a piece of curd full as large as the thumb of a grown perfon, and as firm as a piece of dough; and be perfectly well the next minute.—When infants, not over-fed, throw up the milk uncurdled, after it has been fometime in the ftomach, it is always a worfe fign.

Vomiting.

diffrefs the child, on every fuch occafion, with a fickening emetic, or drench it with rhubarb and magnefia, is as needlefs as it would be to awake a patient out of a found fleep to give him an opiate. Only let the child faft a little after having emptied the flomach of its load, and the nurfe be careful not to overfill it for the future, and it will rarely want any other affiftance. If the vomiting, on the other hand, has

arisen from acrid diet, a little farther difcipline may be requifite, becaufe fome halfdigested food has got into the bowels, perhaps for feveral days together. In this cafe, a gentle laxative, and change of food for one of a milder kind, is all that is generally neceffary; or if there be a prevailing acidity in the flomach, either the testaceous powders, or magnefia, (according to the state of the bowels) may be mixed with the food, or be otherwife administered for two or three days, as the occasion may require. Or a drop or two of the water of kali, or a little castile, or almond foap, are excellent remedies, efpecially when the ftools are unufually green, or clayey; not only as they will tend to promote a fecretion of the gall, but correct acidity.* For which purpofe alfo,

* It is well known, how finall a quantity of foap put into a churn will prevent a due feparation of the component parts of the milk, fo as to allow very lit-

Tomiting.

alfo, myrrhe, though an obfolete, feems to be an excellent remedy, when infants are a few months old. Should the vomiting be a fymptom attending fome other difeafe, its remedy will turn on the proper treatment of its caufe. If fuch caufe be the fudden difappearance of fome eruption on the fkin, the child may be put into a tepid bath; the limbs be well rubbed as foon as it is taken out of the water, and the infant be then put to bed : and if the vomiting continues, an emetic fhould be given, and afterwards a blifter applied to the pit of the flomach.

Having mentioned emetics, I fhall take this occafion to obferve, that the choice of them will be always beft determined by the nature of the complaints for which they are administered. In those of the first-passages, ipecacuanha is generally the best, but if afever should attend, or it be wished to promote a gentle perspiration, those of antimony are preferable; or lastly, in diforders of the breast, the oxymel, conferve, or tincture of fquills.

But a more troublefome vomiting will fometimes arife in unhealthy children, from too great a fenfibility, or too great an irritability of the nerves of the ftomach. Such G 2 medicines

tle, or no butter to be made ; whereas, a little vinegar effects the feparation almost instantaneously, and faves a vast deal of trouble.

Gripes.

medicines are then indicated as will brace, or ftrengthen that orgau, and abate its fenfibility. For the former, a cold infufion of the bark, or of camomile flowers, with orange peel, and fometimes a little rhubarb. For the latter, a faline mixture with a drop or two of laudanum. And the benefit of thefe may be increafed by aromatic and fpirituous fomentations to the pit of the ftomach, or by the labdanum plaifter, with a little theriaca added to it.

GRIPES.

THE Gripes is a very common term amongft nurfes, and fome writers on children's difeafes have treated of it under a diffinct head; but this ferves to perplex matters, inftead of explaining them. If a child be not hungry, or hurt by fome parts of its drefs, there are always fymptoms attending, that will account for its crying, and other expressions of pain. The caufe is, indeed, very commonly in its bowels, and may be increased by costivenes, which has already been treated of, but more commonly manifests itself by a purging, which comes next in order to be confidered.

PURGING.

PURGING

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UNDER the article of vomiting it was ob-ferved, that frequent puking is oftentimes an attendant upon fome other complaint, and then demands a peculiar attention, and is to be treated agreeably to the nature of fuch complaints; and there is, perhaps, none which it more frequently accompanies than a Diarrhœa, or Purging.

Vomiting and Purging very often arife from unwholefome milk or other food, from a moift cold air, or from the fudden difappearance of fome eruption on the skin. The purging is not then hastily to be stopped,. nor even abforbent powders to be given, till the offenfive matter be first carried off; and if a vomiting attend, the cure should begin. by administering an emetic. But though the purging ought not to be checked without previous evacuations, nor to be stopped haltily, yet it is not to be treated with a daily exhibition of rhubarb, which though a common practice with many, ferves to keep up a purging after the caufe has been removed, by creating a continual irritation in the bowels. The diarrhaa, indeed, is a complaint: often as difficult to treat as any in the infant state, and is therefore worthy of particular attention. In a general way it may G 3 be

Purging.

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be faid, that a fufficient dofe or two of rhubarb fhould be administered in the beginning, and afterwards abforbents. If the purging should still continue, an emetic will be neceffary, as purges do not always lie long enough in the stomach to carry off the offenfive matter it contains. After this, it is often neceffary, the child fhould be purged again, for it should be always remembered, that many complaints of infants, whether feated only in the first-passages, or attended with fever, will frequently feem to be giving way upon procuring ftools freely, but will foon return if the fame means be not repeated, till the whole irritating matter be carried down. Should fuch repetition fail of fuccefs, though the diet has been carefully attended to, the use of them at present should be laid afide, and recourfe should again be had to abforbents, and if there be no fever, to light cordials, and even to opiates, without the latter of which, many bowel com-plaints will not admit of a lafting cure, owing to the great irritability of infants. Such medicines are not indeed very often required till children are fome months old : but when they are found neceffary, not only may fyrup of white poppies, but even laudanum be given with the most perfect fafety; * though

* From the half of a drop, to two, or three drops, in the courfe of the day, will be a proper quantity for infants from a week old, to the age of fix months.

L'urging.

though from the time of Galen, (who cautions against giving theriaca to children) till of later years, many phyficians have been fearful of directing them, (arguing from their abufe against their use) and especially Harris, who in other refpects, has written fo well on their difeafes. I remember being called to fee an infant of only two days old, who, through a miltake, had taken fome hours before, four drops of laudanum. The parents were greatly alarmed at the child's lying in a flupid, drowfy flate, without being able to take the breaft or open its eyes, I encouraged them, however, to believe the laudanum would do no kind of harm, if they would frequently get a little breast-milk down with a tea-fpoon. Accordingly, though the child lay fleeping above fix and thirty hours, it afterwards awoke perfectly well.-This is mentioned, however, only by way of encouragement to fuch as may be fearful of administering opiates even where they are neceffary. They are, neverthelefs, very powerful medicines, and fhould be prefcribed with due caution for patients of every age, and efpecially for infants. A like caution may be neceffary in regard to cordials, which are, neverthelefs, in many cafes equally proper, notwithstanding a modern prejudice against them. There is a certain coldnefs and langour in infants when they are ill; especially under some bowel complaints; and

and whenever they may be in that flate,. that clafs of medicines will have a very happy effect.

Purging in children, it is to be obferved, is not always a difeafe. The bowels are the great natural, and critical outlet in infants, as the pores of the fkin, and the kidneys are in adults. Not the mere difcharge, therefore, but the caufe of it is, in the first inftance, to be removed, and the ill effects are to be guarded against by keeping the purging within bounds. For this purpose, the chalk julep, as it is an affringent only by abforbing the acrid, or changing the acid, and irritating matter, is as fafe as it is useful, becomes an excellent anodyne, or composing medicine, and after the bowels have been well cleafed, will usually accomplish the cure.

Dr. Armftrong takes occafion to fpeak against the use of abforbent powders, and prefers wine of antimony, because modern writers appear to depend fo much on the former, from their known property of correcting acidity, previous to the exhibition of purges; and fays, that in cases of extreme danger, a physician who is called in late, would, according to this practice, often find no opportunity for purging at all. But furely this is fearcely an argument to prove the fuperiority of his method, fince no writer that I know of, ever defigned it as a rule without

without exception; and Harris, who has faid as much as any man in commendation of the abforbent powders, does not deny the expediency of fometimes beginning with purgative medicines. But had it been otherwife, the argument goes no farther than to prove, that in cafes of great danger, the wine of antimony, being both an emetic and a purge, ought to precede the use of the testaceous powders. Instead of this, Dr Arm/trong flides into a general conclusion from premifes evidently limited ; though he has advanced nothing against an established, and fuccefsful method of treatment. And I may add, that whilft he is fearful, that the absorbent powders, (which nobody prefcribes without fome purging medicines) fhould check the loofenefs, and thereby increafe the fever ; he ventures, after a repetition of the antimony, to administer what he calls a gentle paregoric, or opiate, to appeafe the pain, confifting of a dram of fyrup of white poppies, repeated every three or four hours, till that end be obtained. So that if the pain should continue for nine hours, a child will take half an ounce of the fyrup; and this Dr. Armstrong observes is the only medicine he gives, except wine of antimony, which (notwithstanding the opiate) he supposes to be the efficient remedy.

It is an improper exhibition of abforbents, I apprehend, rather than their dofe, that

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that has made fome practitioners fo averfe to them; for they certainly ought, in many cafes, to be given in large quantities: but if adminiftered too early, and long continued, the flools may become like plaifter of *Paris*, and be with difficulty excreted. Such an inftance is mentioned by Boerhaave, who had, neverthelefs, a very favorable opinion of them, as will be noticed hereafter. There is, however, fome fallacy' in regard to the colour of the flools, as this kind is frequently obferved in children who have never taken any of the teftacea, if the fecretion of the bile be obftructed; as in jaundiced adults.

In his fecond edition, Dr. Armstrong mentions another method he has fallen upon for curing this diforder, which, however, appears to be recurring to the ancient method of treating bowel complaints, and feems, indeed, to overturn the idea he had entertained of the superiority of wine of antimony over every other medicine. This method, he tells us, is by cleanfing the bowels, by means of proper purgatives, joined with anodynes, or opiates, intermixed in fuch a manner as to correct the griping quality of the medicines, and leffen the ftimulus occafioned by the acrimony of the ftools.—A plan worthy of imitation, it is apprehended, and though not likely to be Purging.

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be proper in all cafes, must, as an occasional practice, be fafe and beneficial.

To return, it is of fome confequence to learn what part of the bowels is particularly affected, and the degree of pain children may endure; and fome indication may be had from undreffing the child, and carefully examining the belly, and gently prefing in different parts, as well as from the dif-ferent expressions of pain the infant may manifest, either by a forcible contraction of one or both legs, or of the arms, according as the irritating matter may be higher or lower, or on one, or both fides of the belly; alfo from the coldnefs of the feet. Regard is alfo to be paid to the kind of ftools that come away, which in a diarrhœa are feldom good, and are ufually diftinguished into the four and curdled, flimy, green, clayey, watery, and bloody, fome of which are at times alfo fetid; and in this cafe, fome powerful purgative, fuch as fen-na-tea, is oftentimes neceffary, if the child is not very young. True bloody ftools, however, are less common in infants than adults, and feldom occur but-in the laft stage of the difease; but a few streaks of blood may fometimes be mixed with the feces, which arifing only from the hemorrhoidal veins, is of no confequence. Should purgings return frequently, it will be very ufeful, (efpecially in the time of teething,

or upon the ftriking in of fome cutaneous eruption), to procure a little difcharge be hind the ears, or to apply a burgundy-pitch plaifter to the back. For the former purpofe, fome finely pounded *Spanifh* flies may be rubbed on the part, till a flight excoriation, or rawnefs, is produced; or perhaps a better, though not a common method, is to draw a piece of courfe doubled worfted, or a bit of narrow tape, through a piece of common bliftering-plaifter, and lay it clofe behind the ears where they rife from the head, and repeating it occafionally, which will produce a difcharge exactly from the fpot where it is wont naturally to arife.

When the ftools appear four or curdled, or the child is much difpofed to hiccough, the magnefia, and other abforbent powders are calculated to afford peculiar affiftance, and may be warmed by the addition of a little grated nutmeg. When the ftools are green, or white and clayey, a drop or two of water of kali may be occafionally put into the other medicines, or a little foap be diffolved in the clyfters, which are effentially neceffary when much griping attends this complaint : the child's belly may likewife be rubbed with a little warm brandy. The following preparation is highly extolled by Boerhaave, * as an almoft univerfal medicine

* Epiff. 1ma .- ad. J. B. BASSAND : a phyfician at Vienna.

medicine in the difeafes of infants; and is certainly a good remedy, efpecially in their bowel complaints :

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Take of Venice foap two drams; prepared pearls, one dram; prepared crabs claws, one dram and an half; fyrup of marshmallows, half an ounce; mint-water and fennelwater, of each three ounces; mix them .---A defert spoonful is directed to be taken once in eight hours.

When purgings have continued a long time without any amendment, a peculiar tightness of the skin will sometimes take place in the last stage of the difease, affording always an unfavourable prognoftic; and of which farther notice will be taken under the article of Skin-bound.

The true Watery-gripes, fo cal'ed, is efteemed the most dangerous of all purgings, and is ufually thought fatal, though perhaps without reafon; fince if properly treated, children recover from it as well as from exceflive purgings of any other kind, unlefs it happen after fome other illnefs, or to very fmall and tender infants during the month. It is not the having a few very thin flools; however, that is an evidence of the true watery-gripes, for in almost every purging of a few days continuance, the stools are very thin as well as numerous. But in this cafe, they are thin very early in the difeafe; the child looks wretchedly, and every thing İt

Purging.

it takes runs almost immediately through it, with very little change, as in the *lientery* of adults.

The cure should be begun by administering one or more pukes, especially when the ftools are of a dark colour and fetid, as they frequently are in the earlier periods of the complaint. And to this end, a pretty ftrong one should be prepared, which should be given in divided dofes, at about a quarter of an hour's distance, till a proper effect is produced; and fome hours afterwards a warm purge with rhubarb fhould be administered, if the disease be not very far advanced. After the first paffages have been cleared, the eighth part of a grain, or lefs, of ipecacuanha, or a drop or two of wine of antimony, given every three or four hours, with a few grains of the testaceous powders, or the aromatic confection, appear to me amongst the best remedies in the earlier periods of the complaint. Indeed, very fmall dofes of ipecacuanha, efpecially if duly guarded by fome gentle aromatic, is both fo ufeful and fafe a remedy, that it should not be hastily laid aside, and when perfevered in the ufe of for fome time, will effect wonders, not only in long purgings, but in other chronical complaints.

In the more advanced ftages of the waterygripes, and where the child is not very young, the following old medicine is a vePurging.

ry good one—Of Locatelli's balfam, one ounce, and conferve of red rofes, two ounces: from the quantity of an horfe-bean tothat of nutmeg, may be given three or four times a day, according to the age of the child.—The laudanum plaifter likewife, as directed for vomitings, or the following, may be applied to the parts above the navel: Take of Venice treacle, one ounce; expreffed oil of mace, two drams; and oil of nutmegs, three drops; mix them into a plaifter, to be fpread on a piece of foft leather.

Should thefe means fail, I have known the repetition of a vomit give an immediate check to the complaint, efpecially where the stools continue to be remarkably four. So long as this is the cafe, it would be both vain and hazardous to exhibit opiates, or powerful reftringents : the acidity must be first carried off by warm purges, and be corrected by abforbents ; the latter of which must be given in large, and repeated dofes, and frequently their powers be augmented by the addition of water of kali, or tincture of myrrhe. And an excellent remedy fometimes, as an antiacid, is the fpir. falis ammon. fuccinat. of Bate's difpenfatory. The acidity once removed, a ftarch clyfter may be thrown up, two or three times a day, with or without a few drops of laudanum, according to the number of the ftools, and H 2 weakweaknefs of the infant. A drop or two of laudanum may now likewife be given, once or more in the day, (according to the age of the child) either joined with fome purgative, or in any of the afore-mentioned medicines, or in the chalk-julep, made warm with tincture of einnamon, or of cardamoms; and in cafes of extremity, in the decoction of log-wood, which agrees very well with young children.

If infants ill of watery-gripes, are brought up by hand, the ftrictest attention must be paid to their food, which must be changed from one kind to another, and efpecially trial be made of broths, (and to older children white meats) as long as the food shall be difpofed to turn very acid on the ftomach. In one cafe, I think I faved a child, by Bates's julepum vitæ, lowered with wa-ter, when nothing elfe would ftay on the stomach. This ferved both for food and medicine; for the former of which, it was still farther diluted. When the waterygripes, or indeed any violent purging, attacks young children at the breaft, no other food ought to be given, but the wet nurfe be changed, if the acidity and purging continue many days, and medicine does not feem to take a proper effect ; which it cannot, if any offenfive matter be continually thrown into the ftomach.

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It has already been hinted, that when there is no fever, purging medicines for children ought to be made potentially warm, and in no cafe is it more neceffary, than in long continued complaints of the bowels, which are fo apt to give rife to fpafmodic affections. I am not very fond of giving prefcriptions, but it may not here be altogether amifs for fome readers, fince the following, confidered as a general medicine, has been found fo frequently useful, and will keep for a great length of time.

Take of rhubarb from fifteen to twenty grains; two scruples of magnefia alba; fweet fennel, and dill-waters, of each one ounce; half an ounce, or fix drams of fyrup of rofes, and fifteen or twenty drops of the compound spirit of ammonia. Of this, one, two, or three tea-fpoonsful may be given two or three times a day, and being very pleafant, infants are never averfe to it.

Bowel complaints, it was faid, are frequently owing to improper food, which on this account, fhould at all times be peculiarly attended to; and when a purging has taken place, ought to be fuited to the na-ture of the ftools. In the fecond part of this work, fome farther notice will be taken of the article of children's food ; at prefent, I shall only observe, that cow's milk is often found to difagree with them, when their bowels are disposed to be too open, at which H 3

Purging.

times, a little lean mutton broth, or beeftea is abundantly preferable. On the fame account, rusks, * and bifcuit-powder are more fuitable than bread; but at other times, I believe, either the common, or the French roll, which is already half digefted by a previous fermentation, is more eafily diffolved in the ftomach, if there be not a predominant acid in the first-paffages. But where there is an habitual difposition to a purging, I know of no diet fo proper for infants who do not fuck, or who cannot have enough of the breaft, as flour baked a long time in the oven, till it breaks into a foft, greyifh-coloured powder, + and afterwards mixed with boiled cow's milk, the fcum being first taken off; the flour and milk should then be boiled a little time together, till the whole appears like a thin cuftard. This is a very light and foft food, and fufficiently reftringent; and I have often known more good from it, than from all the abforbent medicines ever devifed, and have received more thanks for the prefcription, as it proves a permanent remedy. When children who are

* These are preferable to tops and bottoms, as they are called, which have a good deal of butter in them.

† To this end, the flour fhould be put into a fmall jar, properly covered, and be taken out of the oven feveral times, and flirred up from the bottom and fides of the jar, that it may not form into hard lumps, but the whole be equally baked.

are weaned, are attacked with repeated purgings, and even broth is found to run through them, I have obferved no food fo generally ufeful as a bit of the white of chicken, not over-boiled, and afterwards lightly bruifed in a mortar with the chicken liquor, and a very little bread, into a kind of light jelly. But this fhould not be given oftener than twice, or at most, three times a day.

In all bowel complaints, it has been already remarked, that infants are difpofed to eruptions on the fkin; by which they are fo frequently benefited, that if any kind of rafh appears during long or fevere purgings, a recovery may almost with certainly be prognosticated.

That I may not multiply diftinct heads of complaint where little need to be faid, I fhall briefly notice in this place, that many children who are accuftomed at all times to have a very open belly, do not feem to have the faculty of properly retaining their ftools, and need a fervant continually to attend them, even at two or three years of age; fo that fome have been fulpected of being culpable in the matter. I know of no particular remedy, indeed, on this occafion, but, perhaps, the *aqua calcis*, and other abforbents may have been of fome ufe; I have, however, obferved, that the complaint

plaint wears off as fuch children grow up, though oftentimes not entirely for feveral years.

WORMS.

THIS being a bowel complaint, I have noticed it in this place, efpecially as worms have fometims been voided by infants of only a few weeks old. It is even reported,* that Lille Van Deoverin has difcovered them in the ftill-born fetus. Worms, however, are much oftener fufpected to be the caufe of children's complaints than pofitively afcertained; a mere foulnefs of the bowels often producing all the evils attributed to worms: nor are all children equally affected by them where they are actually met with. Some infants continue very healthy, though they are feldom free from them, whilft others are very ill who have apparently very few.

Worms become hurtful chiefly from their numbers; firft, when they obstruct the bowels, or compress the adjacent parts by their bulk. Secondly, by fucking up the chyle defigned for the nourishment of the child. Thirdly, by irritation. Fourthly, by actually destroying the parts; though this is certainly a very rare occurrence, and

* Philofoph. Transact.

a far lefs frequent fource of injury than thofe beforementioned. Worms have, however, been faid to eat their way through the inteftines; and Lifter relates,* that fome refembling the *Teretes*, but of a whiter colour, have been feen coming from an abfcefs on the ankle. They are likewife faid to have occafioned fudden fuffocation, by rifing up into the throat and lodging there.⁺

They are chiefly of four kinds, the large round worm ; the very fmall maw-worm, or afcarides, refembling bits of thread; the short, flat white worm, or cucurbitina, and the jointed, called the tape-worm, or tinæa, which is often many yards long. This is the most hurtful of all, and most difficult of cure, becaufe it will remain long in the bowels even after it is dead, and is then feldom brought away but in pieces, and that by very powerful medicines. But as this kind of worm is certainly not common in children, tho' it may fometimes have been met with, and as it generally occasions a variety of fymptoms refembling other complaints, for which many different medicines may be required, the bare mention of it here may fuffice. 1

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* Philosoph. Trans. See also Heister. + Mr. Le Febure de Villebrune.

[‡] This is fo generally folitary, that it has even acquired the name; yet it is faid, there are fometimes

The Symptoms of worms are various, and many of them are very equivocal : I shall name only the more constant, and lets uncertain ones. Such are fetid breath, especially in the morning; bad gums; itching of the nofe, and of the anus, especially from the ascarides; a very irregular appetite, always in extremes, whether of hunger or of loathing; a large, hard belly; pains at the ftomach; fometimes vomiting, oftener coftivenefs or purging, with flimy ftools; irregular colicks; thirft; dulnefs; peculiar unhealthy and bloated countenance, with a dark, hollow circle round the eyes ; ftartings in the fleep, and grinding of the teeth. To these symptoms are often added, flow fever, with a fmall and irregular pulfe, pale, or whitish urine, a short and dry cough, (which is an almost constant symptom where the complaint is of long ftanding, and has injured the health ;) fometimes even convulfions, epilepfies, and partial palfies of the lower extremities. Children, whofe digeftion is weak, are most liable to be troubled with thefe vermin, which are fometimes very eafily removed, and at other times very difficult of cure, and fubject to return.

The

times feveral of them, but, perhaps, attention enough may not have been given in the examination of them, it being well known, that this worm will live along time after it has been broken into feveral parts.

The Caufe of this troublefome complaint is not perhaps certainly known; but the great moisture of young perfons is thought to be an occasion of their being more infelted with them than older people. Since the doctrine of equivocal generation has been juilly exploded, it has been generally imagined, that worms are engendered from the eggs of infects, which float in the air, or are fwallowed with fome part of our food, fuch as fummer fruits, vegetables, cheefe, and fome kinds of flesh meats. But perhaps this is not altogether fo certain as it may appear at first fight, unless we are to imagine that thefe fuppofed eggs produce very dif-ferent infects, from being taken into the ftomach and bowels, than they would otherwife do; fince we do not meet with infects of this kind, especially the tape-worm, any where elfe.* It is, however, more than probable, that they were defined by nature to be generated, and to live in the bodies of other animals, as observed by Dr. Black.+ The

* Linnæus and others have though the Teretes, or Lubrici, to be the fame with the common earthworm ; but Tyfon has, by diffections, demonstrated the contrary. Philosoph. Transactions.

+ Treatife on the Generation of intestinal Worms, and on the Means of destroying them. See also, Differt. of J. Mathien Gesner, Mem.

Gotting, an. 1751.

The like, however, are faid to be met with in running waters, as well as the bodies of different animals. But as the fact is not generally known, it were defirable to have it established on the authority of feveral writers: I happen to remember none, indeed, but that of Rofeen, whofe veracity, however, I do not, in the least difpute.

But whatever be the caufe, the general intention of Cure is obvious enough, which is to bring them away in the moft eafy, and expeditious manner, whether alive or dead; the difficulty chiefly confifting in diflodging them from their firm attachment to the fides of the bowels. To this end, a variety of medicines, pretty much of the fame kind, has been devifed, and has ferved the caufe of empiricifin in every age. Moft of them confift either of the bitter purges, or mercurials, to which are fometimes joined fteel, and tin.

Worms exifting in the bowels can, indeed, only be carried away by purging; and very active purges are indicated when the time of life and conftitution do not forbid: on this principle, turn almost all the empyrical medicines prefcribed for worms. But when the age and conftitution are tender, gentle purges given duly for fome time, by the conftancy of their operation produce, without harm, an effect equally, or perhaps more beneficial and lafting, that the aftive

active purges: hence have arifen the family receipts, as worm-feed, tanfey, and fuch like, (given in treacle or honey) rhubarb, fenna, &c.

If the child therefore be of a delicate habit, or the complaint not of long ftanding, a little fenna-tea taken every other morning, may be a proper medicine to begin with; bat fhould this, in any inftance, prove infufficient, a few grains of the powder of fcammony with calomel may be given the overnight, once or twice a week, according to the age and ftrength of the child. If purging much fhould, on any account, be found improper, the following is very fafe, and often effectual.

R. Limatur: Stanni Zij. Hydrargyr: 3iij. Mifce, finant amalgama.

About eight or ten grains of this powder, with three or four grains of rhubarb, and as much unwafhed calx of antimony, may be taken every morning, in a little honey, for a week together; after which, a clyfter of fuccotorine aloes, diffolved in warm milk, fhould be thrown up over night, and a proper dofe of rhubarb, or fenna-tea be taken the next morning: which courfe may be repeated, as the obftinacy of the complaint, or the ftrength of the child fhall direct.— Volatile alkalies alfo, in fome debilitated habits, will prove ferviceable.

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Amongst other means, especially for such as may be at a diftance from medical affiftance, is a mixture of pewter filings and treacle, of which children of four or five years old, may take feveral tea-fpoonfuls in a day, almost at pleasure ; which they will also readily do, for the fake of the treacle. At the fame time, from five to ten grains of jalap, with as much of the hydrargyrus cum fulphure should be given twice every week, to carry the worms down, as they die. To answer the last purpose, equal parts of bullock's gall, and powdered alocs, may be mixed up with butter, and the parts below the navel be anointed with it, two or three times a week ; or fuccotorine aloes and powder of dried rue, made into a plaister with Venice treacle, and applied round the navel, first covering that part with a little cotton. -I mention thefe things with a view to the country poor, whom the benevolence of their neighbours may incline them to affift, and who may, by thefe eafy means, do it at fo little expence to themfelves. Amongst fuch likewife, the decoction of quickfilver, in the proportion of about two ounces to a pint of water, may be made trial of, and and taken as a common drink, of which fome people have entertained a very high opinion. When this shall be drank, the like quantity of water may be added, as often as it may be wanted.

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If the complaint, however, has been of long ftanding, and the child not very young, mercurial purges are a more expeditious, and a fafe remedy; though the *hydrargyrus cum fulphure* taken for a length of time, and occafionally purging with fenna, has fometimes fucceeded, even where there have been the feverest convultions. For which likewife, or obstinate contractions of the limbs, the warm-bath is often effentially neceffary.

Throughout the cure, and indeed afterwards, the diet fhould be ftrictly attended to, and all fat and greafy aliments abftained from. The child fhould live upon milk, broths, and meats of eafy digeftion, with toafted bread and honey, inftead of butter, which is exceedingly pernicious.—To prevent a return of the complaint in older children, or grown people, chalybeate-waters and butters may be made ufe of.

CONVULSIONS.

CONVULSIONS are of two kinds; the *fymptomatic*, depending upon another difeafe, and the *idiopathic*, faid to be an original complaint, and arifing from a morbid affection of the brain, though the diftinction be not, perhaps, perfectly philofophical, or accurate. It is for want of fome fuch diferimination, however, that writers have had occafion to obferve, that children

Convulfions.

are much oftener fuppofed to die of convulfions than they really do; for though a convulfion frequently clofes the fcene, it has generally arifen from the great irritabiity of their nerves, and violence of the difeafe under which they have laboured.

Such original Caufe may be a rash improperly repelled ; but is much oftener feated in the gums, in the time of teething; or in the first-paffages, where fome undigested matter, or fometimes pent-up wind, irritates the coates of the intestines, and produces irregular motions throughout the whole nervous fyftem. Such a load, whether from too great a quantity, or bad quality of the food, by occafioning a faulty fecretion, must act like a poifon; and that the convulsions are owing to this caufe may often be known by the complaints that have preceded them, fuch as loathings, coftiveness, purging, pale countenance, large belly, and diffurbed fleep. If the child is two or three years old, any load at the ftomach may be more readily difcovered ; the tongue will be foul, the skin hot, and the pulse quick and weak. But fhould it be granted, that the convulfions of children are generally fymptomatic, they may neverthelefs be faid to die of them more frequently than fome authors have allowed; for where a difeafe is difpofed to produce violent convultions, the convultion, though a mere fymptom, may carry off the patient:

Convulpons.

patient : but as it may fometimes be prevented or removed, by its peculiar remedies, (the difeafe which occasioned it being at the fame time properly treated) infants may often be recovered, who would otherwife expire in a convultion fit.

Any little matter capable of irritating the nervous fystem, will induce the fymptomatic convulsions in some infants, whilst others will withftand a great deal. For fuch habits as the former, the cold bath will be found the best prefervative. Every young infaut is, however, more or lefs, predifpofed to this complaint; and the difposition continues throughout childhood, in a proportion to the age and delicacy of the habit. The younger and more irritable, therefore, an infant may be, it will be fo much the more liable to the fymptomatic convultion, especially from any confiderable disturbance in the first passages, as was mentioned before, particularly the bad quality, or over thickness of the breast-milk, or other food ; and from frights of the wet nurfe. Of this I remember a remarkable inftance in a patient of my own, in whofe houfe a visiter dropped down suddenly dead. The mother of the child, which was fix months old, was exceedingly alarmed, but her attention being for a moment called off by its crying, fhe incautioufly put it to her breaft. It was not an hour afterwards that the infant

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fant was feized with a fit, and lay either convulfed or drowfy, without fo much as taking the breaft, for the fpace of fix and thirty hours; though it was at length happily recovered.

The cure of every convultion will confift, principally, in removing the exciting caufes, which must, therefore, be inquired into. If from improper food and indigeftion, a gentle emetic should be given. If the irritation be in the bowels, whatever will carry down their acrid contents will cure the convulsions, if administered in time; and we ought generally to begin with a clyfter. If the stools appear very foul after common purges, (in which cafe there will frequently be a difficulty of breathing) a few grains of the powder of fcammony with calomel may be given with great propriety. But if the disposition to convulsions continues, after the bowels have been properly cleanfed, and no new irritation of them may be apprehended, antispafinodics should be adminiftered, * fuch as tincture of foot or of caftor, *fpirit*

* I fpeak from my own experience of the efficacy of fuch remedies, and it may not be amifs to obferve that Harris, who is extremely cautious of giving heating medicines to infants, fpeaks favourably of fome of thefe.—" Ufus horum (fays he) haud prorfus improbandus eft, vel in tenellis : nempe quia acidum abforbendi facultate excellunt. Verum fummâ cautione" &c... Great caution is certainly neceffary in regard

fpirit of hartfhorn, or drop or two of laudanum, or, what I have found remarkably fuccefsful, oil of rue; which though an obfolete medicine, I think I have never adminiftered, when there was any chance of recovery, where it has not been ferviceable. Rubbing the back bone, palms of the hands, and foles of feet with oil of amber, or water of ammonia, has likewife had a good effect. A very common caufe, however, of recurring convultions is worms, and where no other probable one may appear, ought to be fufpected; the cure will then depend on the proper treatment of that complaint.

Should the convultions arife from the difappearance of a rafh, or of a difcharge behind the ears, the warm-bath, blifters,* gentle purges, or a few drops of the compound fpirit of ammonia joined with the falt

regard to every medicine preferibed for infants, and efpecially, it has been granted, for those of heating quality : nevertheles, it may be repeated, that in proportion as the diforders of infants shall become more attended to, I doubt not, it will appear that, in this country at least, cordial and volatile medicines, are frequently both more expedient and useful, than many people have imagined.

* Blifters may be dreffed with the common white cerate, rubbed down till it becomes fmooth, and fpread upon a double linen cloth, inftead of the harddrawing plaifters commonly made use of, which are very harfh to the tender excoriated furface. falt of amber, bid the faireft for administering relief. But when the caufe is unknown, as the approach of fmall pox, meafles, or other eruptive complaint, bathing the feet in warm water, and throwing up a clyfter, are the fafeft means. If from teething, after gentle evacuations, and other means directed under that head, blifters, oil of rue, laudanum, or the compound fpirit of vitriolic æther, and efpecially lancing the gums, are the grand remedies.

When repeated convultions connected with fome diforder in the first paffages, and recurring for feveral months have withftood all the above means of cure and been fufpected to arife from fome fault in the brain, they will fometimes difappear of themfelves as the infant gets older. At other times, the appearance of fome other complaint has put an end to the convulsions, and not unfrequently, changing the wet-nurfe; and fometimes even weaning children, when fixor eight months old, has feemed to remove the complaint. I lately faw a remarkable instance of the concurrence of two of these circumstances; the child being feized with the fmall-pox, and weaned, at, or near the fame time. The infant previous to this, for feveral months together as constantly fell into violent convultions as it chanced to chew a cruft of bread, eat a bit of plain pudding, or even take bread and milk, and though when

when debarred from thefe, and nourifhed only at the breaft of a healthy nurfe, the fits recurred every two or three weeks : but after going through the fmall-pox in a favourable manner, and being taken wholly from the breaft, the fits foon difappeared, and the child was able to take all the light food ufually given to infants.

If convultions come on without any of the preceding fymptoms, they have generally been concluded to be a primary difeafe, and to proceed immediately from the brain. Some derivation is therefore to be made, by bleeding, if the child feems able to bear it, or by leeches behind the ears; by blifters; purging; bathing the feet in warm water ; frictions of the legs, and rubbing the foles of the feet with the water of ammonia. If children of two or three years old are subject to slight and frequent fits, iffues or fetons should be made between the fhoulders, or in the neck, and be kept open for a length of time : chalybeate waters may likewife be useful. But when the idiopathic convulfion attacks very young children, it generally terminates very foon, fometimes in ten minutes, and is, indeed, often fatal before any means can be made ufe of. Though, indeed I have often imagined, that we are frequently mistaken in regard to fuch hafty deaths, and that when convultions prove fo fuddenly fatal, they are commonly

Convulfions.

commonly *fymptomatic*, and are occafioned much oftener than is fufpected by over-feeding.—I have known fome of the largeft and fineft children I have ever feen, die prefently after the nurfe had boafted of their having eaten three boats-full of victuals.

From this view of the difeafe, a few words more may not be wholly unneceffary, efpecially as they will hold out much comfort in regard to this alarming complaint; by which, I am however, affured, many in-fants have perifhed merely from its not being properly diffinguished. For though, indeed, every convulsion fit is to appearance exceedingly shocking, yet under proper treatment they are much feldomer fatal than is commonly imagined, however often they may recur : neither is the frequency of their returns during infancy, nor the long continuance of fuch a disposition an indication of future evils, if the fits themfelves be of the kind here fuppofed. * But though experience warrants my fpeaking with confidence on this head, and I should account myfelf exceedingly happy in preventing any unneceffary distress that parents may endure, yet would

* The above obfervation is, I believe, ftriftly true in regard to fuch kind of fits; and though in fome others, the intellects have appeared afterwards to be impaired, yet are the inflances fo very few, that there is usually little room for parents to be alarmed in the apprehension of fuch confequences.

would I, by no means, put them off their guard; fince the recovery depends fo entirely upon an expeditious ufe of the remedy, that even the time loft in calling in affiftance from abroad may be fatal to the infant.

Fits of this kind are, indeed, pretty generally known to arife from irritating matter confined in the first passages, as has been already explained, but I believe it is not fo generally underftood, how often fuch matters are lodged in the ftomach, (perhaps the pylorus itfelf); or very low down in the rectum. Instances of the latter are not wanting, wherein the hardened feces have lain fo low as to dilate the fphincter ani, (or lower opening of the bowels) fufficiently to expose them to view, and yet the infant been dead before a clyfter could be procured from a neighbouring apothecary's; whereas fuch fits ceafe immediately after a plentiful evacuation from the bowels, artificially induced : and I have feen an infant in the month, lying torpid for an hour together, in a kind of fit, and apparently in the very article of death, brought out of it entirely after a large and fpontaneous difcharge of thick feces. In like manner fudden death has taken place when the load has been in the ftomach; whilft other children have been faved by fpontaneoufly throwing it up.

Convulsions.

After what has has been faid it would be fcarcely neceffary to point out the remedies in a formal way, but for the fake of directing the most expeditious manner of applying them. In the first instance, doubtlefs, the obvious means are a foap clyfter with two or more tea-spoonsful of falt (fuch articles being always at hand) and afterwards administering one or other of the purges for-merly directed; which it may often be neceffary to repeat for fome days, perhaps with an interval between. But when an infant falls fuddenly into a convultion very foon after fucking, or feeding, whether on any thing actually improper, or not, and the bowels have been for fome days in an orderly state, it may reasonably be prefumed, that the irritation is in the ftomach, efpecially if there be an unufual paleness of the countenance, indicating ficknefs; or on the contrary, any confiderable blacknefs, with fymptoms of fuffocation ; which I think do not come on fo foon when the obstruction is in the bowels. And it fhould here be remarked, that it is not neceffary, that the load in the ftomach should be confiderable in quantity in order to induce fuch fudden and alarming convultions; it is fufficient that the flomach be really oppreffed by it to a certain degree; nor does it always appear to arife fo much from an oppreffive abundance, as from a small piece of undigested tood,

Convulfions.

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food, irritating, and perhaps flicking in the pylorus, or inferior aperture of the ftomach.

In the cafe here defcribed it would be improper to think of a formal emetic, at leaft without making trial of fome more expeditious means, fuch as irritating the *Pharynx*, or upper part of the gullet, with the finger, or a feather, or forcing in the fmoke of tobacco, if that be at hand, which often inftantly produce vomiting, and put an end to the fit. To this end, the child should be supported by a hand placed under its ftomach and belly, whilft the feather or other means are made ufe of; in which pofture the infant will be made to vomit more readily, and with lefs ftraining, than in any other polition .- It is hoped that the importance of the fubject, as well as the very frequent fuccefs attending the plans last recommended, under the most alarming appearances, may be thought an apology for the length of this chapter, as well as the fort of repetitions made use of.

It is farther to be noted, that fymptomatic convultions are fometimes the effect of a falutary effort of nature, to produce a crifis in fome difeafe the child labours under; in which cafe, great caution fhould be ufed not to be over officious : bathing the feet in warm water, however, as mentioned before, K will

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will be perfectly fafe, and perhaps ufeful.— Having fpoken of opiates, I fhall juft obferve, that though they are often very ferviceable, when judicioufly preferibed, they become very hurtful if improperly adminiftered. They will, however, always be fafe, where convultions continue after the firft exciting caufe has been removed; or where they are fo violent as to become an obftacle to adminifering proper remedies; or when the originial complaint is of a fpafmodic nature.

When convultions occur many times in a day, it is of importance to attend to the diftance of the paroxyfms, or returns; from which a much better indication may be had of their immediate danger, than from the forcible contraction of the mufcles during the fit. For where the intervals are fhort, though the fit itfelf be not long, nor violent, the difeafe is more dangerous, than where violent fits are attended with long intervals.

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IN the preceding edition, this diforder was confidered only in a transient way, under the article of *Purging*; both from its being conceived to appear chiefly in the form of a morbid fymptom attending certain bowel

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bowel complaints, and becaufe I had then neither feen, nor heard encugh of the difeafe to enable me to offer to the public any very diftinct account of it. I could indeed wish that this diforder were yet better understood, and that I were able to lay down a more fuccessful method of treatment than has yet been made known : it is however in every view worthy of the most distinct confideration, as well from the obfervations made in this country, as from the late refearches by feveral physicians in Paris, as I fhall have occafion to notice very foon.

Having met with no account of this diforder either amongst the ancients, nor very modern writers when I mentioned it in a former edition, I prefumed I was announcing a difeafe, at that time fcarcely known, or at least was giving the first public account of it : and this I believe is no uncommon mistake of authors. Perhaps, it may be the wife intention of Providence, that in fucceeding ages, many things relating to arts and fciences fhould be forgotten or overlooked, in order to emulate posterity in the purfuit of knowledge; which men would, probably, be less inquisitive after, if things once known were very rarely loft fight of. However this may be, I continued to confult the oldeft writers, after having published my former edition, and was once more led to conclude, that no account of this dif-K 2

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order had ever before been given to the public. At length, however, I met with a folitary cafe, which had occurred in the hofpital at Stockholm, Anno 1718, accurately deferibed by Uzenbessius, and recorded in Scuringii Embrologia (defatu frigido et rigido),* but without adverting at all to its treatment. The cafe, as I fince find, is transferibed into the Ephemerid. Academ. Natura Curiofor. Cent. ix.

The above is related in a manner importing it to be an uncommon occurrence, and the difease at that time little, if at all known: and though recorded in two diffind works (the latter of which is rather confulted than regularly perused) the case feems to have been univerfally overlooked, and confequently the true nature of the difease has remained nearly in its original obfcurity. It was, indeed, not till a twelve-month after my fhort account of it appeared, that this diforder began to engage the attention of the French physicians, in confequence of Monfieur Andry being called upon to take the charge of the Hofpice des Enfans trouves at Paris. The difeafe indeed had been for many years noticed both in that hospital and

* The midwife is reported to have faid, that this infant though born alive, felt as intenfely coland rigid when it came into the world as a piece of ice.—How this might be, I leave to the Academy of the Curious to determine.

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and the hotel Dieu, but having always proved fatal, little attention had been for a long time paid to it, till Dr. Andry was elected phyfician to the first mentioned charity; fince which time, no pains feem to have been spared in the investigation of it.

That the prefent account of the difeafe may therefore be clearly flated, I shall first confider it as it has appeared in this country, and in the manner I had long ago in-tended, and had actually drawn up before I was favoured with fome farther defcription of it, by Dr. Andry, of Paris.

It has, indeed, been much lefs common in this kingdom than on the continent, but is equally an hospital diseafe, and is seldom met with but accompanied with fome bowel complaint, and still more rarely appearing at the birth. It was first spoken of in publie, I believe, by my friend Dr. Denman (when phyfician to the Middlefex hofpital, and a teacher in midwifery); as I remarked in the former edition; and it is to him I was indebted for fome account of it before I had at all noticed the diforder myfelf.

The British Lying-in hospital has been yery little infested with it, and, possibly, by being folely appropriated to the reception of pregnant women, which the Mid-dlefex hospital was not. I shall therefore first of all lay down the fymptoms exactly as they were noticed in that infirmary, by Dr.

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Dr. Denmin, whole unwearied attention to it, though not with all the defired effect, does him more honour, than could have been derived from the most fuccessful treatment of a difease less fatal than this has proved wherever ithas appeared.

The following fymptoms may be confidered as pathognomonic, or characteristic of the difease.

1st. The skin is always of a yellowish white colour, giving the idea of soft wax.

2d. The feel of the skin and flesh is hard and refisting, but not edematofe.

3d. The cellular membrane is fixed in fuch a manner, that the fkin will not flide over the fubjacent mufcles; not even on the back of the hands, where it is ufually very loofe and pliable.

4th. This stricture often extends over the whole body; but the skin is peculiarly rigid in the parts about the face, and on the extremities.

5th. The child is always cold.

6th. The infant makes a peculiar kind of moaning noife, which is often very feeble; and never cries like other children.

7th. Whatever number of days fuch children may furvive, they always have the appearance of being dying.

This difeafe appears at no regular periods ;: but whenever it takes place it attacks feveral infants within a fhort time; and chiefly

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chiefly thofe, as I have just noticed, who may be in the last stage of obstinate bowel complaints, in which the stools are of a waxey or clayey confistence. It has been also remarked, that it sometimes makes its appearance as an *original* difease, and even at the birth; in which case, the infant has never furvived many days.

I have feen the rigidity extending beyond the cellular membrane, fo as to affect the mufcles, but only those of the lower jaw, which became perfectly rigid : but this *fpafm* or *tetanus* is, by no means, a frequent fymptom, and does not feize the extremities, as it is found to do in France; nor has the difease, in any instance that I have heard of, been attended with the *eryfipelatous* affections constantly noticed in that country.

The Caufe of this dreadful complaint, when congenite, or evidently fupervenient to diforders of the first-passages, feems to me to be a spass depending very much upon a certain morbid state of those parts, and with which the skin is well known to have a peculiar sympathy. But when, though an original difease, it does not take place till fome days after birth, which, I believe, is rarely, if ever the case except in large hospitals, and other crouded apartments; wherever the irritating cause, in such instances, may be feated, the difease feems to be an endemic of certain feasons, arising from that that unwholefome air to which fuch places are peculiarly liable.

The means of Cure in this country have been very different from those that have lately been found fuccefsful in France; but instances of recovery have been very few in either. As Dr. Denman did me the kindnefs of giving me the first intimation of fuch a difeafe, I very naturally adopted his plan of treatment, which confifted in a strict attention to the state of the bowels ; and rendering the feveral medicines very warm by means of the compound spirit of ammonia, which was administered every four or fix hours; and was the only plan that he ever found attended with any fuccefs. Together with this, I after fome time directed the frequent use of a warm-bath, and chafing the whole body afterwards with foft flannel; and I think myfelf happy in having fallen upon one part of the plan that has fince appeared to have been attended with the first instances of fuccess in France, as will be noticed below.

As the difeafe raging fo much in France feems to differ in many refpects from ours, it is very doubtful how far the plan of cure lately adopted there may be applicable in this country, and my own experience has hitherto not gone beyond the means I laft mentioned : but I would venture to fuggeft, that in many cafes; trial might be fafely and properly

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properly made, not only of carminative clyfters, but alfo of a grain of calomel previous to the infant being put into the warm-bath :* and after a fufficient number of ftools fhall have been procured by thefe means, exhibiting other volatile and cordial' remedies befide the fpirit of ammonia; as well as anti-fpafunodies of different kinds.

It was after I had made up my mind about this complaint, in the manner that has been just noticed, that an advertifement appeared from the Royal Society of Medicine in Paris, proposing this difease as the subject for their next prize-medal. About this time also, Mr. TENON published his Mèmoires fur les. Hôpitaux de Paris, in which is a brief account of this difease; and very foon after this, Dr. Andry did me the honour of fending me his Tract, intitled, Recherches fur L'endurcissement du Tissue cellulaire des Enfans noveaux-nès.

Though thefe works contain very accurate accounts of this difeafe, and to which Dr. Andry efpecially has paid an attention that muft do him great honour, they at first ferved only to perplex my own views of it. This obfcurity arofe from the diforder being combined, or as I then rather conceived,

* To the warm water fhould be added a good quantity of falt, and fome Caffile foap.

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ed, intirely confounded with another complaint firft publickly noticed, I believe, in a former edition of this work, under the term *anomalous inflammation*; and from which Dr. Andry had, on this occafion, made two or three quotations. I therefore took the liberty of writing to that eminent phyfician, and was foon favoured with a fatisfactory anfwer, by which I hope the public as well as myfelf may be obliged; as it muft prevent any miftakes arifing from the accounts which the above mentioned works afford of this melancholy difeafe.

After the defcription given of this diforder as it appears in London, little more will be neceffary, I apprehend, than to felect the circumstances in which *that* in *France* is found to differ, as related by Dr. Andry in his printed work, as well as the letters with which he was pleafed to honour me.

It has already been faid, that it is more frequently attended with *tetanus*, and never occurs without thofe appearances mentioned under the article, termed in this edition, *Infantile Eryfipelas*, efpecia'ly the rednefs and hardnefs about the *pubes*, accompanied farther with tumour and rednefs of the foles of the feet. But thefe parts, it feems, tho' of a purple red, are intenfely cold, very rarely fuppurate, but fometimes mortify.*

* This is faid to be the cafe in four or five children. In one very late inftance, however, the infant was not cold, but on the contrary, exceedingly hot. The legs, thighs, and foles of the feet were red and hard; but no mention being made of a *general* tightnefs of the *lkin*, it is probable this child was affected only with that infantile eryfipelas which appears amongft us.

Besides the above variations, the infants are faid to fwallow with extreme pain; the extremities, efpecially the legs, are much enlarged, and attended with a ferous effufion in the cellular membrane, which we have not hitherto noticed : and the diforder is likewife faid to rage most in the hotter months.-The infants are observed to die about the third or fourth day, or at farthest, on the feventh from the birth. It is probable, there is another and very material variation, in refpect to the degree of ftricture and immobility of the skin, which are not clearly expressed to be either fo confiderable or extensive, as in the difease I have been defcribing; but are more confined to those parts which become red and tumid. But

dren out of twenty, all of whom certainly die in a few hours after the gangrene has taken place; and become fo putrid, that by the next day, the fkin feparates from every part of the body, fo as to adhere to the hands of those who have occasion to touch them.

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But in the inftance recorded by Scuringius it was clearly otherwife, the infant being faid to feel, from head to foot, like a piece of flesh dried in the smoke. The child furviv. ed a compleat day, during which time it took no fort of nourishment; but never cried, nor made any kind of noife.

Upon examining a great number of dead bodies at the Enfans Trouvès, the ferous extravalation is constantly met with; is of a deep yellow colour and fluid, but coagulates with heat; the fat is peculiarly folid; the glands and lymphatics, efpecially those of the mefentery, are found fluffed, and the liver uncommonly large, with a great quantity of deep coloured bile in the gallbladder; and the lungs are faid to be loaded with blood, as well as to contain an unufual quantity of air.

The fuppofed Caufe of this difeafe amongst them, feems to me but ill accounted for; being attributed to the improper diet of the mother or her infant, or to cold it has taken at the birth : whereas, the coldnefs and rigidity of the skin seem to be but mere symptoms, and not the difeafe ; efpecially as their children, like ours, are but rarely attacked from the birth. It should rather feem to be a true endemic, arifing from foul air, especially as it is found only to attack the poor, and particularly to infelt the two large hospitals that are crouded above all others, and

and receive the lowest and most wretched part of them; of whose new-born children, it is supposed, one out of twenty is visited with this difease.

It has been hinted, that for a long while, little attention was paid to this complaint, on account of its conftant fatality, fix hundred infants finking under it every year, in a fingle hofpital; four hundred of which are born in the *Hôtel-Dieu*.

But fince Dr. Andry's election, various means have been attempted both by himfelf and his colleague, Mr. Auvety; and amongft other means, the warm-bath, which appears to have faved the first child that was known to recover.* Trial has fince been made of blisters to the extremities, which fucceeded alfo in the very first instance, as well as fince in feveral others; fo that, in the last year, they are reported to have faved five infants out of an hundred, more than in the preceding one.

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* Monfieur Souville, furgeon to the Military Hofpital at Calais, has also given fome account of this difeafe, in the *Journal de Médicine*, under the name of *Ædématie Goncrete*, and obferves, that it is a very common diforder in the provinces, as well as in Paris. Under his direction, likewife, a warm, or rather vapor-bath, fucceeded in the only inftance wherein he had made trial of it.

Tetanus.

As this difeafe, more efpecially in the form it puts on in Paris, is now, by the encouragement of the Royal Society of Medicine, likely to be fully inveftigated, it may be hoped fome farther light will be thrown on it : in the mean time, as it is evidently a complicated difeafe, the bark and cordials, with proper attention to the flate of the bowels, might poffibly be ufeful.

TETANUS.

THE Tetanus, or Locked-Jaw * of infants, is an equally fatal complaint, and as little known in this country, as the foregoing. In fome inflances, it has been confined to the jaw only, as in Jamaica; in others, it has been attended with contraction and rigidity of other mufcles of the face, and a peculiar fixednefs of its features. Sometimes, the rigidity has extended to the neck; and in one child I obferved it to be fpread fo completely over the whole body, that the limbs could not be bent fo as to place it conveniently in the veffel appropriated to a warm-bath. It has already been obferved

* This is the fpecies which Nofologists have termed Trifmus maxillæ inferioris Rigiditas spallica. Species 1^{ma}. Trifmus Nascentium Infantes intra duas primas a nativitate septimanas corripiens. Vide Cullen. G. lxix.

Tetanus.

ed, that it is fometimes joined with the foregoing complaint, but rarely in this country; and even then, the jaw partakes only of that kind of rigidity common to other parts.

In fuch inftances of Tetanus as I have met with, the attack has not been earlier than the fixth, nor later than the ninth day from the birth; and as far as I could learn, the infants had not been coslive (as mentioned by Dr. Evans), nor apparently unhealthy: one, I remember, was a remarkably ftrong and lufty child. It feems fomewhat to differ, therefore, from the difeafe termed Jaw-fallen, in the West Indies ; and in one inftance appeared to have fome refemblance to the catalepfy. The rigidity has stolen on in a more gradual way in fome instances than in others, but has always been very great as far as it extended, from the moment it has been difcovered; fo that in inftances where the mouth has continued fufficiently open to admit my finger, I could not thereby depress the jaw. In some, the eyes have been bloated, and the whole countenance much fwollen.

The caufe of this complaint, which does not feem to arife from conflipation, or negleft of purging off the meconium, may, probably, be a certain flate of the air, as hath alfo been fufpefted in the Weft Indies; and the more fo, as the difeafe has appeared only once in the Britifh Lying-in Hofpital L 2 during

Epileptic-Fits.

during a great number of years and then attacked feveral infants in a fhort time.

The remedies made use of at the hospital were, the warm-bath; fomentations to the rigid parts, frictions with oil and camphire, and BATES's anodyne balfam; blifters behind the ears, and to the nape of the neck; and opium, calomel, the bark, and aromatic confection have been given internally.

One infant, in whom the complaint was confined to the jaw, and who had lefs rigidity than any of the others; never looked ill, and had no convulfions in its limbs, died rather fooner than the reft. Only one furvived the third day : this child was not feized till the ninth from its birth, and lived to go out of the hofpital with its mother, at the end of the third week, and we hoped was then recovering; but it had never been able to take the breaft after the attack, and died three weeks after it left the hofpital, though, poffibly, not altogether from this complaint.

EPILEPTIC-FITS.

THIS and the following complaint, as well as the two immediately preceding, which relate, fome to the more early, and others to the later periods of childhood, are noticed

Epileptic-Fits.

ced together in this place, on account of their falling under the general clafs of convulfions, and it is prefumed lefs improperly, on the whole, than ranking them according to the different periods of time in which they might take place.

Very few words, however, on the Epilepfy, or falling-ficknefs, may fuffice, as it is either pretty eafily cured, or ufually conti-nues through life; and is too well known by this popular name to require a particular description : an account of the various precurrent fymptoms would be equally ufelefs in this work .- It may just be noticed, that the parient falls fud lenly to the ground, and fomctimes without any perceptible warning, or at all fufficient to fecure him from injury; and is ufually much convulfed, but frequently retains his fonfes during the fir.

I believe it fometimes takes its rife merely from foul bowels, and certainly more commonly attacks children of a coffive habit of body: it should then be treated agreeably to the directions plready given in fuch cafes, and efpecially with active and mercurial purges : after whic , the bark, chalybeates, and fea bathing may be ferviceable. In other infrances, efpecially in more advanced life, and towards the time of puberty, the epilepfy feems to be owing rather to a more fenfible nervous irritation. In fuch cales, blifters to the back of the head may be

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Epileptic-Eits.

be ufeful; and I have experienced much benefit from large dofes of the powder of valerian, and opium; and in one inftance, by an infufion of favine, fennel feeds, and juniper berries; but I never could entirely conquer the complaint by thefe means; but the *olium fuccini* has, in feveral inftances, perfected a cure in young fubjects. In the worft cafes I ever met with, in

In the worft cafes I ever met with, in which the fits were very long and violent, and to the number of twenty or thirty in a day, electricity has very foon rendered them weaker, reduced their number to three or four in a day, and gradually to one in a month; but did not entirely remove them. In fuch obftinate cafes it is generally fuppofed, that the brain is affected by fome local and permanent caufe, and a perfect cure is confequently defpaired of.

When this difeafe has attacked children of five or fix years of age, and where no treatment has been ferviceable, the complaint has very frequently difappeared fuddenly about the time of puberty, and fometimes a year or two fooner. Where it does not, it will probably continue through life, and now and then prove fuddenly fatal.

Upon examining the brain after death, I have found a finall point of bone ftanding out from the internal part of the *os frontis*, as fharp as a needle (of which Boerhaave has

Chorea Santi Viti. 127

has recorded feveral inftances) and was, doubtlefs, the true caufe of the difeafe.

CHOREA SANCTI VITI, OF SAINT VI-TUS'S DANCE.

I SHALL be equally brief on this untoward diforder, which, though not often fatal, is like the former, I believe, rarely cured but in young fubjects.

Worms and other foulness of the bowels in children, are likewise frequent causes of this strange convulsion; in which different parts, and especially the extremities are put into continual motion, giving the patient a very awkward appearance, particularly in his walk.

If the first-passages are the feat of irritation, the complaint must be treated in the manner noticed under the preceding article; and, indeed, in most cases, the cure should be begun by administering aloetic, or mercurial purges. But should the diforder appear to be owing rather to relaxation, as it fometimes is, the bark, chalybeates, and other tonics, especially the vitriolum album, and fea-bathing, are indicated, and are very frequently successful; as I have seen in a late instance, in a child of eleven years of age.

TEETHING,

TEETHING.

THE complaints arifing during dentition may next be confidered, many of the foregoing being blended with it, the firftpaffages and the nervous fystem being always more or lefs affected. The state of dentition is likewife not unfrequently an occasion of many complaints afterwards to be mentioned, such as cough, fever, the rickets, and even confumption; under each of which heads therefore, occasional references will be made to it.

The time of teething is a most important period of the infant state, and subjects it to manifold complaints and dangers. Some writers, indeed, and particularly Dr. Cadogan*, and Dr. Armstrong, feem to think otherwife; and that teething is fcarcely to be ranked amongst the difeases of infants. They have imagined that children, if otherwife healthy, would cut their teeth with no more danger than adults, who often cut their wife teeth, fo called, at an advanced age, without any difficulty, and always without hazard. They likewife obferve, that many children get their teeth eafily. But this argument must suppose the healthiest, and

* See his Effay on Nurfing, &c.

and best nurtured children, to be, in all respects, in the fame circumstances with adults, which is, by no means the cafe; as they are liable to fever, dangerous purgings, and even convulsions, from causes that would in no wife, affect the latter : nor can they stand under some of those complaints fo long as adults, nor endure the neceffary remedies. For the fame reason, the meafles and fmall-pox carry off fuch numbers of infants, when attacked by them a little more feverely than common, whilst young and healthy people often struggle through the most dangerous and complicated kinds, when properly treated from the beginning. Not to mention, that very few infants, who are unhappily affected with lues venerea, recover under any treatment; whilft adults are cured in the most advanced stages of the complaint, notwithstanding fome parts may be actually mortified. I have, therefore, no doubt, that the time of teething ought to be ranked amongst the most dangerous to infants, and that the greatest attention ought to be paid to it; though it is probable that Dr. Arburthnot greatly over-rates its fatality, when he fays that one child in ten may be fuppofed to fink under it.

Some late writers, and particularly Mr. Le Febure De Villebrune, have conceived this to be a mere difpute about words; but the

the difference, indeed, extends much farther. For though I would, indeed, by no means affert dentition itself to be a difease, and have made use of any fuch like expression merely in a popular way, yet am I con-fident it induces difeafe in very many infants of every habit of body, and more especially, however strange it may seem, in the apparently healthy and robust. Indeed, weak and even rickety children, more commonly cut their teeth eafily, tho' often very late; or if they should be harrafled by a purging, and other complaints, they, neverthelefs, escape with their lives oftener than lufty ftrong children, who are frequently carried off fuddenly at this period, unless the teeth happen to find a very eafy paffage through the gums. The fystem, during dentition, being difpofed to inflammation, fuch children must oftener fall into fever than the tender and delicate; like athletic adults, who are more disposed to inflammatory complaints, than those who are of a colder, but lefs healthy temperament : and it is by acute fever, or convultions, that infants are carried off, who are well known to furvive a thoufand lingering and vexatious complaints, if their viscera be found.

This period ufually commences between the fifth and tenth months, and the process of the first teething continues to the eighteenth at the least, and fometimes much lon-

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ger. The two front teeth in the lower jaw are ufually cut the firft, and it is commonly a few weeks longer, before the correfponding ones in the upper jaw make their appearance. After which, it is frequently a confiderable time before the next underteeth come out; but fometimes, though not often, fix or eight are cut in a hafty fucceffion. Children fometimes cut their teeth irregularly, or crofs, as it is called, both by the teeth appearing firft in the upper jaw, and alfo at a diftance, inftead of being contiguous to each other : this is accounted, and with fome reafon, indication of difficult, or painful dentition.

Teething is ufually preceded and accompanied with various fymptoms : the child drivels, or flavers much ; the gums fwell, fpread, and become hot; there is often a circumfcribed rednefs in the cheeks, and eruptions on the Tkin, especially on the face and scalp; a loofeness, gripings, green stools, watchings, flartings in the fleep, and fpafms of particular parts ; a diminution, or increafed fecretion of the urine, and difcharge of matter, with pain in making water, (imitating exactly a virulent gonorrhæa) which often mitigates the fever. A less common fymptom, appearing only in certain habits, is a fwelling of the tops of the feet and hands : it feems, however, of no importance, and goes away upon the appearance

of the teeth. I never met with it but in infants who cut them painfully; and being feldom accompanied with a purging, it is likely may prevent that fever which is otherwife fo apt to attend. In all cafes, the child fhrieks often, and thrufts its fingers into its mouth: and thefe fymptoms are fometimes followed by a cough, difficult breathing, fits, fever, fcrofula and marafmus, or univerfal decay.

Strong and healthy children cut their teeth both earlier and more eafily than the weak and tender. I have known a weak, and rickety child, without a tooth at twenty-two months old,* though it lived to grow up; but at the age of five years became fcrofulous. Therefore air, exercife, wholefome food, an open belly, and every thing that has a tendency to promote general health, will greatly contribute to the fafety of dentition.

Difficult teething is to be treated nearly as other acute difeates with local inflammation. If the body is at all bound, fome opening medicine fhould be administered, and it is to be obferved, that even a confiderable degree of loofenefs is ufeful; few children cutting teeth fo well as those whose bellies are at this time much more than commonly

* Primerofe speaks of it being as late as the third, or even fourth year.

monly open. Diluting drinks are alfo very neceffary, especially if the child does not fuck ; with a light food, in fmall quantities, and frequently taken. If much fever attends, the lofs of a little blood, in fome way, will be neceffary ; though children do not endure bleeding fo well as they do other evacuations. If the propriety of bleeding with the lancet be doubted, a leech or two, as Harris advises, may be applied behind the ears, and is generally ferviceable. Clyfters are also very useful, especially if there be retention of urine, which will likewife call for the use of the warm-bath. Gentle diaphoretics are alfo ferviceable, particularly of wine of antimony, or the antimonium tartarifatum, which befides opening the belly, often operate in this way : a blifter should likewife be applied between the fhoulders, efpecially if there is any difposition to fits. And, indeed, if stools do not afford fome confiderable relief, there should generally be fome discharge from the skin; fince a purging, and eruptions on the skin, when fpontaneous, are the grand means of eafy dentition. A little difcharge should therefore, be kept up behind the ears, by rubbing the parts with *Spani/b* flies, applying a thread as before directed, or putting on a fmall blifter; which may be kept open. A burgundy-pitch plaifter laid on the back will fometimes fuffice, which fhould be re-M newed

newed every ten days, till the fymptoms difappear, or the teeth come into fight. Even before this period, light fcarifications of the gums are very ufeful, by taking off the tenfion; or if the teeth are at all to be felt, lancing them, as it is called; the proper method of doing which will be noticed below.

I shall close what I have to offer on the general plan of treatment, by observing, that the indications certainly are to affift the eruption of the teeth, and to moderate the inflammatory and other fymptoms : which must be treated according to their kind: all parts of the body readily confenting with the gums at the time of teething, but the nerves, the bowels, and the lungs, more particularly and importantly than the reft. It has been obferved, that a purging is be-neficial, and it is, indeed, furprifing how confiderable a diarrhœa children will stand on this occasion, and how very bad the stools will often be for many weeks together, and a child happily ftruggle through; though at another time, an equal degree of purging, with fuch bad ftools, and conftant fever, would prove infallibly fatal. The diarrhœa is therefore not only to be cauioufly treated according to the directions already given under the article of purging, but is oftentimes rather to be encouraged than suppressed. Very pale stools are at 1 his

this time not uncommon, and are fometimes in vaft quantity : I have known an infant have fifty in one night, at leaft by the account of a careful and difcreet nurfery maid; and from the quantity of feces that I faw the next morning, I had no reafon to difpute her calculation.

For the fever of dentition, befides bleeding the abforbent powders are eminently useful, and are in various respects calculated to afford relief. To thefe, fometimes a grain or two of Dr. James powder may be added at bed-time, which, if there should be any thing amifs in the ftomach or bowels will either vomit or purge, but otherwife (it has been faid) will promote a kindly fweat, which is always beneficial. Nitre is very often useful, joined with the testaceous powders, or a little of the compound powder of contrayerva-Sydenham directs three or four drops of the compound fpirit of ammonia in a spoonful of water every four hours, for four or five times, and I have thought it very ferviceable after proper evacuations; but this dofe may be confiderably increased, according to the age of the child. Nor is a drop or two of laudanum to be feared, if the bowels have been previoufly opened, the pain be very great, and the breathing not difficult.

A principal indication, it has been faid, is to affift the eruption of the teeth. This M 2 is

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is attempted, by cooling, fedative, and demulcent applications made to the gums; by rubbing them with fome hard, polifhed body, fuch as the coral; or by dividing them with the lancet : which last is the only mean to be depended upon. When it is found neceffary to lance the gums, (which is ever, at least, a safe operation) it should always be done effectually, with a proper gum-lancet, and not with a needle, a thin fix-pence, or fuch like inftrument, which will not fufficiently divide the gum, or the ftrong membrane that covers the teeth. The lancet should always be carried quite down to them, and even be drawn acrofs the double teeth. It is certain, that this litle operation gives fcarcely any pain, and the relief is at the fame time often fo confiderable that the child appears exceedingly pleafed with it, and will immediately fqueeze the jaws and grind them together forcibly, which proves the gums are not very fenfible.

The most painful part of dentition, and that in which children are most exposed to convultions, is usually from the teeth cutting through the *periofteum* (or nervous membrane mentioned above) that covers the jaw immediately under the gums. This, I apprehend, in difficult dentition, is often not cut through, but is forced up before the teeth, when they are even in fight under

the thin gum; hence it is, that cutting through the gum is fo very often useful, and takes off fever and convultions, which fevere fymptoms could not arife merely from piercing the gum, which, it has been faid, is not a very fenfible part. At other times; the pain and fever feem to arife from almost the very first shooting of the teeth within the jaw, and then they will very often not appear for fome weeks after the gums have been properly lanced; and parents are therefore apt to conclude, the lancing has been unneceffarily done. I am, however, convinced from experience, that this little operation, though not in the general esteem it ought to be (and by the French physicians even dreaded at this period)* is often inex-preffibly ufeful, and appears to have faved many lives, after the most dangerous fymptoms had taken place, and every other mean of cure had been made use of. And I cannot here forbear expressing my surprize, at the fears fome people entertain of lancing the gums, and their delaying it fo long, if not altogether rejecting it, though no evil can possibly arife from the operation. On the other hand, its advantages are fo great, that whenever convulfions take place about the usual period of dentition, recourse ought always

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always to be had to it, after an unfuccessful use of other means; though by an exami-nation of the gums there may be no cer-tain evidence of the convulsions being ow-ing to such cause; the irritation from teething, it has been remarked, often tak-ing place in a very early flage of the bu-finefs. At any rate, it has been faid, the operation can do no harm, even at any period, and should the shooting of teeth be only an aggravation to the true caufe of the difeafe, lancing the gums must be attended with advantage. But should teething be the proper and fole caufe, it is evi-dent how fruitlefs any other mean of re-lief must frequently be : for should convulfions, for instance, take place from a thorn run into the finger, or toe, the proper indication of cure, by an immediate extraction of the thorn, and the probable futility of other means, would be equally obvious.

The operation may alfo be fafely repeated, the fcars doing no kind of harm. And indeed it will be frequently neceffary to lance the gums feveral times, on account of the extraordinary difficulty with which fome infants cut their teeth, efpecially the double ones, which are furnished with two or more knobs or points. Fever, purging, and even convultions will fometimes arise from only one point of a large tooth offending the *periosteum* that covers it, and being nearer the furface

furface than the other points, the lancet fometimes does not completely divide the membrane that lies over the reft; and this part not being injured by the tooth, the fymptoms fublide on having divided that portion of membrane that was inflamed. But in a little time, another point of the fame tooth is found to irritate the periosteum, and calls for the like affiftance of the lancet, which again removes all the complaints. This, at leaft, I have conceived to be the procefs, when I have found lancing a large tooth immediately remove every terrible fymptom, though the fever and other complaints have returned, and the tooth not appeared till the operation has been three or four times repeated. I have feen the like good effect from it, when children have been cutting a number of teeth in fucceffion, and have bred them all with convultions. Nothing having relieved or prevented thefe terrible fymptoms but lancing the gums, which has removed them every time it has been done, one or more teeth appearing a day or two after each operation .--- In fuch cafes, it will often be proper to draw a lancet along a great part of one, or even both the jaws, at the fame operation.

Some writers, however, and Dr. Millar particularly, have advised, not to cut quite down to the teeth, but only to fcarify the gums, unless the teeth are very near. He fufpects

fuspects that the inftrument often injures them, and produces caries, which he thinks will be communicated to the fucceeding fet of teeth. But this is a needlefs fcruple, and I apprehend arifes for want of duly attending to the ftate of the teeth, which are perfect bone, and covered with a ftrong enamel, long before they get through the gums. The manner of the fecond teething of children likewife forbids fuch a fear; for though the first fet, which are defigned by nature to be only of short duration) should actually be injured by the lancet, the fucceeding ones are not at all likely to be affected by the carious state of the former. For the first teeth of infants constantly become carious at the roots, and are loofened and expelled by that means, when left to nature alone; and though the upper parts of the new teeth are in contact with the carious bottoms of the first fet, they never fuffer from this circumstance. I have dwelt the longer on this head, becaufe writers are not agreed on the fubject, and it is a matter oftentimes of no fmall importance. I have, however, written from experience, and am perfectly fatisfied of the propriety and fafety of what I have ventured to recommend.*

* See Mr. Hunter's copious and accurate account of the teeth, and their difeafes.

It

It has been hinted to be a common practice to touch the gums with oils and mucilages, and to rub them with fome hard and polifhed body. To anfwer the first intention, perhaps a little honey, or fyrup of white poppys is as proper as any thing, or the honey may be lightly acidulated with spirit of vitriol. Besides the coral, a cruft of bread, or a piece of liquorice root, may be often carried to the mouth, and may fometimes be preferable, as they will yield a little to the pressure of the gums.

It fhould be a pretty general rule during the time of teething, to abate a little of the ufual quantity of food, and the encreafe the qnantity of drink; unlefs the child is very weakly, or every thing is going on perfectly well : or if the child be at the breaft, a fimilar regard ought to be paid to the diet of the nurfe.

Children will fometimes have ulcerated gums in teething, and more frequently where they have not been lanced, which are eafily cured by keeping the body open, and touching them with aftringent applications. As much white vitriol, or roch alum as will give a moderate roughness to a little honey, is usually sufficient for this purpose. But should this fail in any cafe, it must be treated as directed under the head of Canker.

FEVER

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FEVER.

THOUGH fome writers have fuppofed infants to be as liable to fevers as adults, and from the fame caufes, I have, by no means, found it fo, and I wifh parents to take comfort from the confideration; having obferved for many years, as well in the hofpital, as in private practice, that infants do not readily take common fevers, though expofed for a long time to that contagion which has appeared to affect adults around them. Their fevers are alfo of a fhort duration if properly treated, unlefs the few that arife from fome more permanent irritating caufe.

Young children, however, are difpofed to fome febrile complaints peculiar to themfelves; which, as I have enlarged this edition confiderably, with the defign of taking in all their complaints, I fhall beftow fome pains in fpecifying, as well as pointing out the treatment most adapted to each.

The more frequent caufes of fever, are teething, foul bowels, worms, glandular difeafes, fome eruptive and very contagious complaint, or taking cold, and are often attended with fymptoms peculiar to children. If from the laft mentioned caufe, and the cold be fevere, it will always be attended with a cough, hoarfenefs, and fome difficulty of breathing, and often with running at the nofe or eyes, which will diffinguish the fever from all others, except it be the meafles; which will be attended likewise with violent fneezing, and a peculiar appearance of the eyes not often met with in a common cold.

If a fever from cold be confiderable, the cough violent, and the difficulty of breathing very great, a blifter will always be fafe and expedient, and may be applied at the pit of the ftomach inftead of the back, as being both lefs painful under any motion of the body, and more readily got at to be dreffed, or for the application of fresh cloths, where the difcharge happens to be confiderable. But if the fever and difficulty of breathing fhould not be very much abated by the blifter, children though within the twelve-month, will bear and even be greatly benefited by the lofs of a little blood, * at least by the application of two or three leeches.

* In mittendo fanguine, non tam annos medicus numerare, quam vires ægrotantis æstimare debet. Celfus. *Lib.* ii. *cap.* 10. *p.* 78.

Galen indeed forbad bleeding till after fourteen years of age, but fince the time of Celfus, that abfurd idea has been exploded. Rhazes permitted cupping after three or four months; Avicenna at a year old.—Some allowed of bleeding in the feet or legs, though not in the upper parts; but this ufeful operation is now juftly unconfined; and extended, occafionally, to every period.

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leeches, as I have frequently feen; and I mention this again, becaufe it has been thought fo highly improper for infants. But I can venture to fay, they will be much lefs reduced by it, than by the continuance of the fever, which the lofs of a little blood will, in many cafes, fhorten by two or three days; and which is fometimes abfolutely neceffary, and in peripneumonic cafes, may even be repeated with fafety and advantage*. Oily medicines, likewife, made into a neat emulfion, are often uleful, especially if the child be not at the breast; but they should be preceded by an emetic of wine of antimony, as there is usually much phlegm on ftomach; children never coughing it up. In many cafes it is also neceffary to repeat the emetic, as often as the phlegm in the throat is collected in fuch a quantity as feems to impede respiration. But if the cough be dry or convulfive, Bates's spirit. fal. ammoniac. fuccinat. may be fafely and ufefully administered, if there be not much fever. The body at the fame time fhould be kept perfectly open, and this purpofe is ufually well anfwered by fmaller dofes of wine of antimony, or of Dr. James's powder; but if they should fail to procure ftools, as they fometimes will, where there is

* Multa in præcipiti periculo recte fiunt, aliàs amittenda. Id. Lib. iii. cap. 18. p. 150.

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is much fever, they rather do harm than good, unlefs a little manna, or rhubarb be joined with them.

It is very neceffary here to obferve, that though preparations of antimony may perhaps be fafely administered under the eye of very attentive parents, they are very powerful medicines, and not to be prefcribed by nurfes and ignorant people, or without great caution. And I hope this may be admitted as an apology for the liberty I have taken in faying fo much against fome practices highly extolled by other writers, and efpeially the indifcriminate use of antimonial wine, * which has induced fome people to make free with medicines of this clafs, who are in no wife competent judges. + But where fuch medicines are found to agree, N and

* It may be proper once for all to remark, that, it is prefumed truth calls for an undifguifed account of every writer's fentiments, from whomfoever he may differ; who, the more refpectable their names and opinious may be, and the oftener their authority may be quoted, by fo much the more prejudicial any erroneous fentiments or practice muft become. It is to method and meafures, not men, that writers have to object: when compelled fo to do, I wifh always to express myfelf in a manner equally refpectrul and intelligible; after which an impartial public will judge on which fide the faireft reafoning, or fafer line of practice may lie.

† A nurfe very lately proposed giving half a grain of tartar emetic to an infant of a few days old.

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and keep the belly open, children frequently ftand in need of no other; though where the fever has been very confiderable, I have given nitre to advantage to infants of only a few months old. In the little fevers arifing from taking cold, to which fome children are very liable, I often join it with a little of Dr. James's powder, (proportioned to the age) and a few grains of the compound powder of contrayerva, lowered with teftacea; which I find to be a medicine exceedingly useful, when given in time. If the head is much affected, putting the feet into warm water, or applying a milt to them just taken from the animal, are admirable remedies; and I think have fometimes faved a life after all hope had been given up. Or a little fresh leaven, or dough, as advifed by Mr. Le Febure de Villebrune, may be fpread thinly over the foles of the feet. If the fever be accompanied with much cough, and attended with difficulty of breathing, which comes on by fits, both may be greatly relieved by ten or fifteen drops of the fpirit of vitriolic æther, given three or four times a-day. But in the abfence of fever, the breast-milk is often as good a balfamic as can be had; or if the child be dry-nursed, a little fyrup of balfam is both pleafant and ufeful.

If the fever be not owing to taking cold, to worms, teething, or fome eruptive complaint,

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plaint, it will generally be found to arife from some foulness in the first-passages, in which cafe, opening the belly, and afterwards giving a puke and the teftaceous powders, ufually remove it. But if otherwife, opening medicines must be continued a while longer, especially castor-oil; but if the flools are very fetid, the bafilic powder, or fmall defes of calomel are the fitteft purge; though they require to be administered with caution. I have known not only convulsions, but paralytic affections, attended with great pain and continual fever, induced merely, as I apprehend, by a foul flate of the bowels ; where, after the complaint has been unfuccessfully treated as a fever of another kind, all the fymptoms have been removed at once by an active purge. Even infants of only three or four months old will often have very confiderable fever, and fits, with fo coflive a flate of the bowels as to require ftrong purgative medicines to be repeated for feveral fucceffive days, with clyfters and the warm-bath, before the obstruc tion can be removed, or the fever will at all abate. And I doubt not, it may be matter of furprife to those who may not frequently have met with fuch cafes, to find what a quantity of purging medicines have been taken by a tender infant before one proper flool could be procured, and how certainly a relapfe will take place, if the N 2 opening

opening plan be not perfevered in, in the manner recommended. In less urgent cases, and efpecially in very young fubjects, much gentler means will ufually fucceed; and after the belly has been once or more well opened, many common fevers will nearly fublide; after which it will frequently be proper to return to fome of the abforbent powders, in one form or other, and that recommended by Boerhaave * may be as proper as any; though the union of different testacea is of very little importance. Any of them will form an admirable medicine for very young children, as well under little fevers, as for almost all their complaints not attended with much costiveness. This, the judicious Harris was fo fenfible of, that he thinks them alone fufficient to effect almost every thing during the infant state, and has done unfpeakable fervice by abolifhing that indifcriminate recourfe to cordials, and other heating and rough medicines, fuch as mercury, aurum fulminans, theriaca, &c. together with various anile and fuperstitious remedies, which the ancient writers frequently recommended on occafions peculiarly improper. And though abforbents will not do every thing he has imagined, yct are there very few medicines of fuch general use. But should the fever withstand thefe

* See the prefeription under the article of Parging, page 85.

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these common remedies, or be found to increafe, it will be neceffary to give fome of those before recommended, or, what is fometimes very ufeful, little draughts with lemon juice and falt of hartfhorn, in which the latter is left a little predominant; or three or four drops of the compound spirit of ammonia, in a little water, four or five times a-day. I have, indeed, lately experienced very good effects from perfevering in the use of small doses of wine of antimony, given in a faline draught, in the little obscure fevers of infants, where the caufe has not been to obvious as it commonly is.

On the decline of fome fevers, especially those arising from fowl bowels, it is not uncommon to fee an eruption on the skin, refembling that called the red-gum, in the month, and fometimes even the thrush will make its appearance, though the infant may have had that complaint already; which are marks of the great difturbance the first paffages have fuffered, and of the confent they have with the fkin; the former, it has been faid, is always a favourable indication; but the obfervation does not hold good in regard to the thrush.

Fevers in children of three or four years old, are fometimes tedious of cure by any of the above means, and like those of adults, require the bark ; which should be admi- N_3 niffered

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nistered in a light decoction three or four times a day, in fuch doses as the fymptoms may require.

I have fometimes met with a fever, more remarkable for its being attended with inflamed and painful tumors, than for any other fymptom peculiar to it. Thefe are feated chiefly on the legs, and particularly along the fpine of the tibia; and rife in a day or two to the fize of a nutmeg. They are marked with all the appearances of abfceffes, feeling as if they contained matter, and on this account, they put on a formidable afpect to fuch as may not often have feen the difeafe; but what is remarkable, they never, I believe, come to fuppuration, but difappear again in a few days, though the fever fometimes continues. The like the fever fometimes continues. appearances have been met with in adults, and efpecially females, but perhaps more commonly in children from three to ten years of age; and are not peculiar to fcrofulous habits. As far as my experience has gone, (for I believe it is not a very common complaint) they are conjoined more frequently with that fever which attends a foul ftate of the bowels, than with any other; which therefore requires repeated purging, efpecially with calomel; and on this account, the pulvis è scammon. cum calimel. becomes a convenient preparation. Saline draughts with the fpir. ætheris vitriolici may be

be given on the intermediate days, and in the end the bark is commonly useful.

MESENTERIC-FEVER.

A NOTHER caufe of fever has been hinted at, which is obstructed glands, especially the *mefenteric*; and is often a fore-runner of the true hectic fever, or fatal marasfmus.

It, indeed, frequently arifes from fcrofula, which then difcovers itfelf by other marks; and will require its peculiar treatment. But there is an early ftage of glandular obstruction in the melentery, and of the fever here alluded to, that is often falfely attributed to worms; but will not yield to mere purgative medicines. It at-tacks children from the age of three or four years, the fever remitting, and fometimes intermitting irregularly; is attended with lofs of appetite, fwelled belly, and pain in the bowels; the latter more commonly taking place, more or lefs, every day, or is generally more violent if the child be a day or two free from it. After opening the bowels, half a grain, or a grain of calomel may be given to advantage, two or three times a week, and on the intermediate days fmall dofes of the natron ppt. either alone, or neutralized with the juice of lemons, or in

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in fome inftances partially fo. If the belly be very coflive, as it often is, an infufion of the burnt fponge and fenna is more effectual than any thing; and when flrained through filtering paper, make a neat preparation, and an excellent remedy for many little fevers, in older children, when the *primæ viæ*, or firft paffages are concerned. When the glandular fever, juft now mentioned, has abated, fome light bitter, as of camomile flowers, is ufeful to brace the flomach and bowels; and to prevent a relapfe, it will often be found neceffary to administer fome chalybeate, of which the *tinct. flor. martialium* is ufually the most proper for children.

But as this fever, from its great fatality and frequency, has lately very much engaged the attention of writers, it may be proper to confider it a little more diffinftly in fome of its principal ftages; in each of which its nature and treatment fometimes materially differ. For before the mefenteric glands become much enlarged, or the fever continual; whilf the appetite continues, and the first digestion is but little impaired, and no purging has taken place; the opening mixture of fponge and fenna, with a few dofes of calomel, and afterwards bitters and chalybeates, are the only remedies very likely to be called for. In this ftate, the diforder may still be confidered as in its first frage,

stage, and of which an unufual costiveness, the hardness and recurring pains in the belly, and an intermitting fever, are the principal fymptoms. The limits of this work, however, will not allow of a particular detail of the many others that attend this fever through its various stages; and it is prefum-ed, they are fo well known to medical people as to render it unnecessary. But in general, it may be faid, that indigestion, coftivenefs or purging; irregular appetite; flushed cheeks, or a total loss of colour; impaired strength and spirits; remitting fever; and a hard and tumid belly, with emaciated limbs, are amongst the more constant fymptoms attending, at one period or other of the difease.

Children are liable to it from their infancy to fix or eight years of age, it being often a confequence of the long continuance of almost any of the preceding complaints, efpecially those of the first passages and dentition, as well as the measles, and a few others; of which that from teething will be feparately confidered. Among the poor, it is too frequently owing to a coarse and unwholesome diet; indigestion at the stomach, and a confequent vitiated chyle, with infarction, or obstructions in some of the internal glands or lymphatics, being among the primary remote causes of the difease.

As

As prophylactics, or preventives therefore, good air, exercife, gentle frictions, an eafy drefs, frequent walhings of the body of young children with foap and warm water,* the cold bath, in older children, and efpecially a light and nutritious diet, with fuch mild aromatics as may affift digeftion, are fome of the principal and most efficacious means.

But when this fever is actually formed, it calls for the most powerful remedies; and fuch have happily fucceeded in feveral inftances, wherein formerly little hope had been ufually entertained.

As I am confirmined to pafs over many lefs important fymptoms occurring in the different flages of this long difeafe, effecially fuch as arife from fome peculiarity of habit; fo will it be neceffary to confine thefe obfervations to the more general plan of treatment, without particularly noticing a variety of occafional remedies, which fuch fymptoms might at different periods require.

In a general way, the principal indications are to remove the obftructions in the lymphatic fystem, and effect a refolution of the indurated glands of the mefentery; to carry

* This idea is as ancient as the time of Hippocrates, who ftrongly advifes it.

De Salubri Diæta. § IX.

I 5.4

carry off this vifcid matter; and laftly, to ftrengthen the fyftem, and eftablifh a good digeftion, as well by means of proper diet as by medicine. To accomplifh thefe intentions, attenuants and deobftruents, purges and emetics, and tonic, or bracing remedies, muft be had recourfe to, in their turns.

Amongst the first, and as general deobfiruents, are mercurial and antimonial remedies, neutral falts, foap, steel, and, according to fome, the cicuta.

In regard to the efficacy of mercury and fteel in this difeafe, a vaft croud of teftimonies appears among writers,* in almoft every part of Europe. And a very rational idea has been fuggefted on this head, by Mr. Royer, that of administering mercury clyfter-wife; inafmuch as the refolution of local and partial obstructions, does not fo much require an exertion of the collected force of the fystem, as deriving all the influence of proper remedies to the feat of the difeafe : an idea of late years pretty generally received, and in fome inflances, fuccefsfully adapted to the cure of fcrofula, as well as fome other chronical diforders.

Calomel

* White, Hartmann, Worlhof, Theden, Burchard, Baumè, Baumes, Rofeen, Fouquet, &c. Calomel is, perhaps, one of the fitteft remedies of this clafs, and may be combined with fome purgative medicine, and given for feveral weeks, till there fhall be fome favourable change in the feel and fize of the belly.

The lighteft preparations of *fteel* are ufually preferable, fuch as its tinctures, or the falt, or merely fome chalybeate water; which will act both as aperitives and tonics; and amongft *antimonials*, the *kermes mineral* is found by experience to be more generally ufeful than any other preparation.

The Evacuants mentioned as proper in this difeafe, were emetics and purges; to which may be added diaphoretics. The two former are more effentially neceffary; but must be adapted and carefully dofed, agreeably to the state of the bowels of the patient. As a purge, rhubarb and falt of tartar are generally the fafeft and most effectual, and may be perfevered in for the greatest length of time; or the composition which, in regard to many cafes, has been defervedly extolled by Sir William Fordyce, rhubarb and polychreft falt; which, whenever mercury may not be preferred, fhould be exhibited daily for feveral weeks, and will fometimes reftore the patient without recourfe to any other means, when the diforder is not of long flanding; being at once 2

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once both a purge and an efficacious deobftruent.

As a *Diaphoretic*, farfaparilla, or a more compound decoction of the woods; which may be taken together with any of the above mentioned remedies.

The laft means recommended were tonic, or bracing medicines, which can very rarely be difpenfed with; fince although the obstructions should actually be removed, the emaciated flate to which the patient is generally reduced, peculiarly calls for bracing remedies, efpecially with a view to ftrengthning the ftomach and alimentary canal, and promoting a good digeftion; the only means of obtaining a bland and nutritious chyle, by which the body may be conferved in good health. To this end, the bark, steel, the cold-bath, light bitters and aromatics, are the principal remedies; to one or more of which, recourfe may be had, as the degree of remaining fever, and the state of the bowels may point out. To these may be joined daily frictions, especially of the belly and limbs; or the common foapplaister, or one composed of ointment of marsh-mallows, gum ammoniac, and oil of chamomile, applied over the whole belly : or the body may be covered all over (as di-rected by Mr. Baumes) with fea-falt, reduced to a very fine powder.

It has been already hinted, that the diet ought to be of the lighteft and moft nutritious kind, and carefully adapted to the age and other circumftances of the child; who, if at a due age, ought in many inftances, to partake of light white meats, as well as vegetables, and plain jellies; but always avoiding fat and greafy aliments, paftry, and whatever may not be duly, as well as quickly digefted, or will not form a bland and nutritious chyle, however readily they may get out of the ftomach.

Though in fome inftances, merely purging with calomel or rhubarb, for a length of time has been faid to fucceed, and in others, fome one of the above remedies may be more adapted to the patient than the reit; yet in general, each of them will be ufeful, at one period or other of the complaint, and fometimes the union of feveral: but above all, purging is always the most effential to the cure of this dangerous difeafe. And though it is oftentimes attended with costiveness and a voracious appetite, it is, at others, accompanied with a loathing of all food, and frequent ftools, which do not reduce the belly, but too often deter practitioners from the use of active, or repeated purges; without which, however, experience proves there can be no profpect of fuccefs, after the belly has once become enlarged .--- I shall close these observations with

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with offering the following form, which in a general way, may be as fuitable as any. It fhould be continued for a length of time, taking care that the bowels be kept properly open by it, or by other remedies occafionally administered.

R. Calomelan, gr. j. ad. ij. Pulv. Ipecac. grfs. ad. gr. j. Zingiber. gr. vj.

Misce, ft. Pilulæ is, cum quantitat. fufficient. vel. Conf. aromaticæ, vel Conf. opiatæ, ut alvi status postulet.

HECTIC FEVER, and MARASMUS.

NOT a few, both of the preceding and following complaints, are fometimes found to induce a confirmed heatic fever, and marafinus, or a waiting of the whole body, called by fome writers *Atrophia Lactantium*; though it often comes on too late properly to admit of the name. I have nothing new, indeed, to offer on this difeafe when it feems to be far advanced, unlefs it be by way of encouragement to hope for a better iffue in the heatic fever, under certain circumftances than we are wont to expect.

This fever, as it is apt to arife from other O 2 complaints,

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complaints, is very often owing to their having been imprudently treated, or imperfectly cured, especially by suppressing some eruption or difcharge from the skin, or incautiously stopping a purging during the time of teething. In such cafes, and indeed whenever the hectic fever is of fome standing, the mefenteric glands become indurated, greatly increafed in fize, and often fuppurate, the belly getting large, though the limbs and other parts become emaciated; which state has been treated in the former chapter, and has been fhewn to be curable, or otherwife, according to the degree of induration, and the length of the time it has existed. But there is fometimes a threatening appearance of hestic fever, where neverthelefs nature effects a falutary and wonderful change, and will reftore the emaciated infant as from the very jaws of death. And this, indeed, is often the work only of nature, art doing no more than fuperintending it, and preventing her being counteraded by the use of improper medicines, or diet.

Nature alone will, indeed, oftentimes effect wonders for infants, and far beyond any thing to be expected in adults, if the be not officioufly counteracted. And the reafon is obvious, it being well obferved by

and Marasmus.

a great man, and a good phyfician,* lately deceased, that " there is, in truth, a greater luxuriancy of life and health in infancy, than in any other period in life. Infants, it is acknowledged, are more delicately fenfible to injury, than those advanced in life; but, to compensate this, their fibres and veffels are more capable of diftention, their whole fystem is more flexible, their fluids are lefs acrid, and lefs disposed to putrescence ; they bear all evacuations more eafily, except that of blood, and, which is an important circumstance in their favour, they never fuffer from the terrors of a diffracted imagination. Their fpirits are lively and equal; they quickly forget their paft fufferings, and never anticipate the future. In consequence of these advantages, children recover from difeafes, under fuch unfavorble fymptoms as are never furvived by adults. If they wafte more quickly under fickness, their recovery from it is quick in proportion, and generally more compleat than in older people, as difeafes feldom leave those baneful effects on their constitutions, fo frequent in adults. In fhort, a phyfician ought fcarce ever to difpair of a child's life, while it continues to breathe."-In 03 further

* Dr. Gregory—Comparative view of the State and Faculties of Man with those of the animal World. 1735. farther fupport of this fentiment it may be obferved, that their complaints are not often attended with acute fever, like those of adults, which is disposed rather to break up the fystem, than to rectify the machine.

The above mentioned falutary turns in the true hectic fever, as far as I have obferved, are chiefly in that species of it arising from worms or teething; and in which I have known recoveries after hope had long been given up, and all attempts been laid afide. There is, indeed, an atrophy, or univerfal decay in infants, for want of the breaft, or from the unfuitablenefs of it, or of whatever elfe may be the child's ordinary food, (as I shall instance in another place :) but this is not usually attended with fever, and is to be cured merely by making that change, which the nature of the different occafions points out. Harris recounts fome remarkable recoveries in what he calls the Atrophia verminofa, (or Worm-hectic) and attributes the cures to the free use of the bydrargyrus cum fulphure, carefully prepared; but I have feen none fo marvellous as in the Atrophia Dententium, or Tooth-atrophy. In this, I have known children after being reduced by purging, and other complaints, lying for three months together in the cradle, fcarcely fit to be moved, with continual fever, flushed cheeks, emaciated countenance and limbs, a large belly, inceffant cough, and almoft

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almost without taking any nourishment, recover, as it were in a few days, upon unexpectedly cutting half a dozen teeth.

After what I have faid on this fever, it will not be expected I should offer much on the head of medicines; I shall therefore only observe, that after making trial of the mixture recommended by Boerhaave, * when acidity may prevail in the bowels, or prefcribing opening medicines, as directed under the heads of costiveness and purging, are the chief indications in this advanced stage of the complaint. With this view, Sydenham's rhubarb-beer, + and purging with mercury, if that has not already been done, should even now be attempted, fince children in this state will often bear stronger dofes of purging medicines, and more frequently repeated, than under any other circumstances .---- Some attention, however, fhould be paid to the diet, which ought thould

* Page 85.

† Take of choice rhubarb fliced, two drams; let it be put into a glafs bottle, well flopped, with a quart of fmall-beer, or any other liquor the child may make use of. (This medicated beer is to be his ordinary drink. When this quantity is drank, a fecond, and a third quart of beer may be poured on, as before; after which the rhubarb will commonly have lost its virtue. Should the beer first poured on be too much impregnated with rhubarb, and purge too much, another pint may be added prefently after the first is drank up.

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chiefly to be of milk, rice, femolina, and fuch like, with light puddings; but above all, plenty of fresh air, and as much exercife as the weak state of the child will bear.

In Dr. Armstrong's fecond edition, is a pretty long chapter on the hectic fever of teething children, wherein feveral medicines are prefcribed, which the doctor apprehends may be very ferviceable early in the difeafe. He speaks of it as a very common complaint, beginning like other fevers, and gradually becoming remitting; then a flow continual fever, and terminating in a fatal hectic.

It is very probable, that a fever of this defcription, may be common among paupers, relieved at difpenfaries, and may deferve such a name, but, I believe, it will be rarely met with in higher ranks of life; and if fo, perhaps, that ought to have been intimated in a popular work. It feems to me, (and Dr. Armstrong, indeed, fays as much) to arife from improper food and nur-fing, joined with a costive state of the bowels, and is therefore, very much the offspring of neglect. When advice is fought for in proper time, it, accordingly, appears to be nothing more than the common fever I have defcribed, arifing from a foul state of the bowels, and is eafily cured by fuch medicines as are best calculated to clear the first passages. Should this, however, be neglected, it may degeneScarlet-Fever.

degenerate into a continual fever; but it is not even then peculiar to the age Dr. Armftrong has fpecified, nor, by any means, the common hectic fever of dentition.

FEBRIS SCARLATINA—SCARLET-FEVER, with or without Ulceration of the Throat.

WHENEVER the Scarlet-fever becomes epidemic among adults, children rarely fail being attacked by it, in great numbers, and frequently fink under it. This difeafe has, indeed, engaged the pen of the moft able phyficians, and has lately been accurately arranged by Dr. Perkins. It is therefore well underftood in this day, at leaft in the metropolis, and needs only on this occafion, to be adverted to as one incident to chidren, and its moft approved method of treatment to be briefly pointed out.

The fcarlet-fever with ulcerated throat, has, perhaps, been diffinguithed in too refined a manner, by fome writers, into the fcarlet-fever with malignant ulcerated throat, and the malignant fore throat with efflorefcence, or rednefs, on the fkin. But fuch diffinction, it is apprehended, is needlefs, fince the experienced practitioner will always be guided by the degree of tendency in the fyftem either to an inflammatory or putrid

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putrid diathefis ; and the lefs experienced will only be perplexed by multiplied with diftinctions.

The mildeft fpecies of *fcarlatina anginofa* fhould, however, be carefully diftinguifhed from the true inflammatory affection of the tonfils, which the *angina maligna* will fometimes refemble in its first states in the genuine marks of the two difeases, and the cast of the epidemics reigning at the time, will direct the attentive practitioner; who will in lefs certain cases, take a middle courfe in his method of treatment, till the characteristic fymptoms of either states are evident.

There is, however, a fcarlet-fever that is not atended with any affection of the throat, and was long ago defcribed by Sydenham,* though not much infifted upon by later writers, which is attended with a harder pulfe, and other fymptoms of an inflaminatory difpofition, but neverthelefs, in every inftance that I have met with, calls for the fame general treatment, only more cautioufly adapting the neceffary cordials and tonics to the degree of fever, efpecially in the commencement of the complaint.

The *febris fcarlatina* of every fpecies begins with the common fymptoms of fever, often with languor and difpolition to fainting

* See alfo Withering and Cullen.

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ing, ficknefs, a quick pulfe, and pain in the head. The eyes are often inflamed, and where the throat is affected, there is frequently a fliffnefs of the mufcles of the neck very early in the difeafe, which is foon followed by fome difficulty in fwallowing. The fever generally increafes in the evening, and is often attended with transient fits of delirium; but fome remiffion takes place towards morning, with fweating; and on the fecond, or third day the efflorefcence appears on the fkin, and generally firft on the face, neck, and breaft.

The limits of this work allow me only to obferve, that the method of cure being didirected to the two indications of the general diathefis, and the affection of the throat, the nature and extent of thefe muft ever be kept in view, and the fyftem be duly fupported. The throat fhould be often gargled, or rather fyringed, with mucilaginous infufions or decoctions, rendered more or lefs ftimulant; fuch as the compound decoction of barley with honey of rofes, warmed with the compound fpirit of ammonia, tincture of myrrhe, or a decoction of fnakeroot; or other fuch like preparations.

This fever, efpecially when epidemic, being almost constantly of a low type, the physician must not trust to faline draughts, or other medicines of that class, without the addition of the aromatic confection, fuakefnake-root, or the bark, in one form or other; and befide thefe, fhould direct a moderate quantity of wine to be given with the food, according to the age and other circumflances of the patient.

Should the affection of the throat therefore to be evidently inflammatory, or fhould a cafe occur where the fever may feem to be of that kind, (which may be better afcertained by the hardnefs of the pulfe than any other fymptom) it will rarely, if ever, bear bleeding, even in the beginning of the difeafe, as fymptoms of debility generally attend in fome period of the fcarlet-fever, and will allow only of that middle courfe of treatment, hinted above.

In a general way, a cordial plan is required throughout the difeafe, and where the throat is much affected, either with floughs, or total blacknefs, the bark is indifpenfably neceffary, howefover thick and florid the rafh, or however hot and dry the fkin may be; the bark, as it were, extinguishing the fever above every other remedy. Young children take it very well, efpecially the fost extract, diffolved in a ftrong decoction. Should it be difpofed to purge the child, a little of the fpirit of cinnamon, or a drop or two of the tincture of opium fhould be added to it; or if the child, on the other hand, should be two or three days without a stool, a laxative clyster fhould 2

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Inflammation of the Stomach. 169 fhould be injected.—If there is much external fwelling about the neck, blifters to the part are frequently very ufeful—Even after the efflorefcence has dried off kindly, a gangrene has fometimes feized the whole palatum molle.

CARDIALGIA, or INFLAMMATION of the STOMACH.

THIS is a difeafe very feldom met with, I believe in this country, but is common in France, as it appears by a paper read lately before the Royal Society of Medicine, in Paris, by Mr. Saillant; and is faid to attack children of four or five years of age.

The *pathognomonic*, or characteriftic fymptoms of this difeafe are, violent pains in the region of the ftomach, fometimes recurring every quarter of an hour; violent contortions of the child; and the application of a hand to the feat of the difeafe. Mr. Saillant in the first instance, fuspected that these fymptoms might be owing to worms, and preferibed accordingly; but that child dying in a few days, the body was afterwards opened, and the prefence of genuine inflammation of the ftomach, and of a part of the intestinal canal was clearly demonstrated.

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The

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The treatment of this dreadful difeafe is, however, reprefented as very fimple, confifting only in cooling and laxative remedies, which when administered in good time, are faid to be usually successful. For this purpofe, Mr. Saillant has generally adminiftered the juice of the lettuce, by fpoonsful, every hour; an idea he took up from Baglivi, who directed the juice of the fowthistle in the hemitritus, under fymptoms analogous to those of the cardialgia. The juice of the lettuce was generally Approx found to relieve the pains in a fhort time, and fome infants who had been judged to be in a hopeless state, and even at the point of death, were perfectly recovered.

Mr. Andry has done me the kindnefs of acquainting me, that he has fometimes met with this complaint, in the hospice des enfans trouves, especially during the fummer, and at fuch times as infants have been obliged to continue there without the break, for the want of wet nurfes; who are ufually otherwife engaged in the harveft and vintage feafons, as well as during a hard froft. In the inftances Mr. Andry has feen, the infants were found to vomit up every thing that was given them, which it is probable, must generally be the cafe where the ftomach is actually inflamed. In fuch instances, perhaps, fomentations to the stomach, and the ufe of a warm-bath ought to be made trial of. SMALL-

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SMALL-POX, (INOCULATION) and MEASLES.

I T were very foreign to the prefent intention to treat diffinctly of these difeases and their several varieties, being in no respect peculiar to childhood, and are noticed only to point out a few principal indications, and to introduce some observations in regard to the properest time for inocutation.

Though the SMALL-POX is a complaint fo incident to the early part of life, that comparatively few children living to the age of eight or ten years, are found to escape it, yet it is not fo readily communicated, in the state of *infanty*, as hath been generally imagined, unless by immediate infection.* P 2 The

* Some evidence of the propriety of this affertion may be gathered from the confideration of there always exifting a far greater number of infants within the month, than of children of any other age; and for the like reafon, a greater number of those under a year old, than of such as are two or three years of age. For, every infant that dies at the earlier periods, reduces the number to which those of the more advanced ages might otherwise have amounted; whereas, all the children who arrive to two or three years of age, having been firft infants in the month, and of one year old, the number of the latter periods is not diminished by the death 172 Small-pox, (Inoculation)

The poor furnish frequent instances of the truth of this observation. I have attended where children born in an air, faturated as it were, with the miass of this difease, (as well as of the meass) and even lying continually in a cradle in which another child has died a few days before, have nevertheless escaped the difease, and sometimes when they have flept together in the fame bed with one loaded with it. Hence it appears that highly tainted air, and even perfonal contact, are often infufficient to communicate the virus. Yet we know that

death of those of a more advanced age. Now, every one knows how very few infants he has heard of who have received the finall-pox, naturally, in the month, or even within the year; though fewer of these are inoculated than of children above a year old. And this exemption from the natural fmall-pox does not feem to arife from their not being exposed to the ordinary means of contagion, especially among the middling and lower ranks of people who form the bulk of mankind ; fince the medical men who ufually attend fuch lying in . rooms, are very much in the habit both of vititing the finall-pox, and of inoculating, all the year round: and even in the higher ranks of life, if gentlemen in the general practice of physic happen to be confulted, the chance of their vifiting at the fame time infected patients, is not fo fmall as may be imagined ; not to speak of the probability there is, that fome one of the numerous vifitors, during the month, may by accident or otherwife, have been in some infected house in the course of the day in which their visits may be made.

and Mealles.

infants are very eafily infected, receiving the fmall-pox by inoculation as readily as adults; though neither are at all times equally fufceptible of it. Perhaps this latter circumftance may not always be fufficiently attended to; the mode of inoculation being often blamed, when its failure may be owing to the indifpofed habit of the child. Poffibly, on this account, it may not be perfectly fafe to urge it, at fuch a time; at leaft, inftances are not wanting, where twice introducing the virus having failed, an infant has had the difeafe very feverely, and even fatally, upon its being repeated a third time.

But in whatever way the fmall-pox or meafles may take place, they are to be treated as in adults, with but little other difference than what every practitioner is well acquainted with, that of greater caution and tendernefs; as infants cannot bear the powerful antiphlogiftic regimen and evacuations, often proper for the other.*

In the treatment of the MEASLES, not only ought children's bellies to be kept open throughout the difeafe, but unlefs they are very young, they will bear and even require one or more bleedings, at any period of it when the fymptoms indicate its propriety. P $_3$ And,

* Ex toto, non fic pueri, ut viri, curari debent. Celfus. Lib. iii. cap. 7. p. 134. 174 Small-pox, (Inoculation)

And, indeed, the cure of the fecondary fever, however long it may continue, will turn upon repeated bleedings, laxatives, and a total abftinence from wine, and all animal food.

I have now only to drop a word or two on the fubject of *Inoculation*, becaufe parents are very apt to fall into great miftakes refpecting the age, and circumftances most proper for this operation.

It is too common an opinion that a very young infant, fucking at the breast, is the fittest subject for inoculation, and medical people have fome difficulty in perfuading parents to the contrary. Children are then faid to be clear from humors, their blood mild and balfamic, their food innocent, and they are free from all violent paffions of the mind. But all thefe advantages may be counter-balanced by the delicacy of their frame, their difpofition to fpafm, and their inability to ftruggle with a fevere attack of the difease, if it should chance to fall to their share. And such, indeed, are the facts; infants usually have the small-pox very lightly, whether taken naturally, or from inoculation; though in both there are inftances of their expiring in a fit at the time of the eruption; and they feldom get through the difeafe, if they are full, or it proves of the confluent, or malignant kind. And this furnishes a peculiar objection to inoculating and Measles.

inoculating infants at the breaft, which arifes from their neceffarily lying fo much on the arm of the mother, or the wet-nurfe, especially in the night; the heat exposing them to a much more copious eruption, than children who are weaned. This I have feen clearly exemplified in the inftance of a child whofe mother could fuckle only with the right breaft ; the confequence was, that the left fide of the child was perfectly loaded with the eruption, (though the pock was of the diftinct kind) whilft the other had only a very moderate fprinkling. The child, however, funk under the fecondary fever at the end of five or fix weeks, though turned of two years old; the only child I have known to die of inoculation at fo advanced an age.

I am aware that many children are inoculated very young, and even in the month, and generally with very good fuccefs; but the frequency of this practice, among eminent furgeons, its owing to the urgent folicitation of parents, and their fear of contagion. I cannot therefore avoid faying, that however few may die under inoculation, under any circumflances, the fact is, that the far greater proportion that I happen to have had an account of, is amongft infants under fix months old.

From this view of the matter, it is pretty evident, I think, that this operation ought,

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ought, ufually, to be postponed to a later period, which is pointed out by the child having cut all its first teeth. To which may be added the observation just made, that infants are not much disposed to take the fmall-pox naturally, and that fifty children die under the age of two years, of other complaints, to one that dies of the natural fmall-pox. Should it, however, be in the fame house, or prevail in the neighbourhood, and the parents find it difficult to remove the child out of the way, it may run a lefs rifk in being immediately inoculated, as that operation is now fo well understood, and fuccessfully conducted, than by taking the chance of escaping the infection, or of recovering from the difeafe, if it should happen to take place.

CHICKEN-POX.

FOR the reafon given in the former chapter, I fhall be very brief on this head. The complaint, neverthelefs, merits a few words, not only becaufe more incident, perhaps, to children than to adults, but alfo that parents are often at a lofs to diffinguifh it from the mild fmall-pox : which it fometimes exceeds in violence, and is now and then even attended with danger. This is, indeed, not often the cafe, and the difeafe has Ubicken-pox.

has therefore been very feldom noticed by medical writers; and even Dr. Heberden, who was among the first that obliged the public with a distinct account of it, fays he never faw any perfon with fo many as three hundred puscules over the whole body. Phyficians, indeed, as he observes, are not often called to visit patients under a complaint usually fo trifling, or a gentleman of his long and extensive practice, would have met with instances in which it muss have appeared of more confequence, as will prefently be noticed.

It is from this difparity, I apprehend, that this diforder is fometimes denominated the fwine-pox, which is only a ranker species of the difease, in which the symptoms may run higher, as well as the pustules become much larger. In this cafe, I have known the head and face as much fwollen as I have ever feen them in any diftinct fmall-pox, however full, and the puffules containing a yellow, and feemingly purulent matter, with highly inflamed bafes, and exceedingly fore; and these have formed a complete mask on the face, after the turn, as is often feen in the fmall-pox. One fuch patient whom I was called to vifit, was about fixteen years of age, of a plethoric habit, but very healthy; and what makes it very certain, that this complaint could not be the fmall-pox, is, that the young gentleman died of that diforder

Chicken-pox.

order a twelvemonth afterwards, and poffibly owing to its being neglected in the beginning, from an idea that the former illnefs had really been the fmall-pox. The latter miftake arofe from an improper anfwer having been then made to my enquiry after the day on which the eruption had first appeared (as I was not called in to visit him till the diforder was at the height); a mistake the young gentleman's mother had a perfect recollection of after I was gone, and of which I reminded her upon being called to visit him in the fmall-pox, only the day before his death.

This cafe ftrongly verifies the remark of Dr. Heberden, that this complaint can, in fome inftances, be diffinguished from the fmall-pox only by its quicker progress towards maturation, and the fhorter duration of the puscular, a watery vesicle always appearing on the fecond or third day from the eruption; and the turn, at the farthest, taking place on the fifth.

The treatment of it differs nothing from that of the mild, diffinct finall-pox; but it more rarely calls for much attention, and only when a patient may have it very full.

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AGUE.

THIS is a complaint fo well known, that it feems unneceffary here to enter minutely into a defcription of it. It is fufficient to fay, that it confifts of repeated cold and hot fits regularly fucceeding each other, with one or more well-days between them; in which interval the fick paffes a high-coloured urine, that depofits a red fediment.

It, perhaps, partakes more of a nervous affection than other fevers may do, and is known to be endemic in fome flat marfhy fituations, but is most frequent in the spring and fall of the year ; in the former of which it is generally eafily cured, and is even fometimes falutary. Autumnal agues, on the other hand, especially in the country, and amongst the very poor people who feed coarfely, will frequently continue a long time, and return again the next autumn; whereby the conflitution becomes confiderably impaired. In fuch inftances the legs are apt to fwell, and more efpecially the belly, which becomes hard, particularly on the left fide, and has been termed the ague-cake. This tumefaction, however, instead of being a bad sign, as might be fufpected a priori, is a very favourable one, and indicates the recovery of the patient. This

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This circumftance is noticed by Sydenham, and like other obfervations of that attentive practitioner, is a very juft one, and was doubtlefs, the refult of his experience. The hardnefs is probably owing to an infarction of the fpleen, and ufually fubfides in the courfe of a few months, efpecially upon the ufe of moderate exercife, and a generous diet. It may be prudent, however, to adminifter fmall dofes of calomel, and afterwards light bitters, adding likewife chalybeates, if the habit of the patient feems to require them, and there are no fymptoms of morbid affection of the *vifcera*.

It were needlefs to enter more largely into the fubject, and it is equally foreign from the prefent intention, to be more particular in regard to the cure of this oftentimes very troublefome complaint, as it would lead me farther than would be compatible with the defign of this work. Some notice of it, however, is taken becaufe, though no more peculiar to children than the laft mentioned difeafes, yet it may be faid, that there are comparatively very few children who have not fuffered by it during the years ufually paffed at fchool.

The ague, indeed, attacks every age, fo that infants even under a year old are very liable to it, whenever it rages among adults. It is with a peculiar view to patients of the former clafs that the following directions are

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given

given, the bark being ufually a fpecific for older children and grown people; to whom, however, it is generally proper first to administer a vomit, and one or more doses of physic.

In a ftate of *infancy*, the ague is often owing to, or connected with a foul ftate of the bowels and obftruction of the gall-ducts, and is frequently accompanied with worms, or fuch a ftate of the alimentary canal as affords a proper nidus for them.

The tertian, or more common ague, at this age generally yields to purges of the bafilic powder, or calomel and rhubarb, given on the days between the fits, and fmall dofes of Dr. James's powder on the return of the fever. Should this fail, a vomit should be administered an hour or two before the next cold fit is expected, if the powder should not already have had that effect. In older children, the common faline draught, taken once in fix or eight hours, will frequently fucceed, as will warm bitters, and medicines that promote and keep up perspiration. A linen waistcoat with fine powder of bark quilted within it, may be worn by infants next their skin.

Amongst popular remedies,* is a tea-Q spoonful

* It is hoped, that a defire of enabling readers to affift their country poor, will be admitted as an apology fpoonful of white refin in fine powder, mixed with the like quantity of pounded loaf-fugar, taken a little before the cold-fit, and repeated afterwards night and morning. Poor people, or fuch as live in the country at a distance from medical help, may make trial of it with fafety, and with as good profpect of fuccefs as any other remedy I know of, having found it fuccefsful even where large dofes of the bark have failed. Such kind of remedies for this difease are numberless; I shall, however, mention another, which, though as anile as any, feems to have been very often fuccefsful; and is nothing more than the fpider's web, rolled loofely up to the fize of a child's marble, and washed down with a little warm wine and water, or camomile tea, before the cold fit is expected : the child fhould then be put into a warm bed, and perfpiration be encouraged.

Crude falt ammoniac, in the dofe of ten or twelve grains, for children of five or fix years of age, has fometimes cured this troublefome complaint; but may not be proper for delicate conftitutions. Myrrhe is a better remedy for fuch, given from four to eight grains, before, or during the cold-fit, and as much cream of tartar, every two or three

logy for this and other fimilar paffages met with in this work.

three kours, during the fever. Pepper, and likewife alum, are frequently given with fuccefs at this age, the former from five to ten grains; the latter from three to five, joined with the like quantity of nutmeg, three or four times a day in the abfence of the fever. Another good remedy is flowers of brimflone, given in the quantity of a table fpoonful in a glafs of brandy, before or during the cold-fit; this is a proper dofe for adults, but I have never admi-1 iftered this medicine to children. I fhall clofe this lift of remedies with the following from Dr. Kirkpatrick, which is a very good one for patients no otherwife averfe from the bark, than that the ftomach will not bear it in large dofes.

Take of the fresh fasfatras bark, of Virginia fnake-root, of roch-allum, of nutmeg, of calcined antimony, and falt of wormwood, of each one dram: to thefe, well rubbed together into a fine powder, add the weight of the whole of the best Peruvian bark, then add three or four drops of the chemical oil of mint; and with fyrup of fatiron make all into the confiftence of an electuary. This is to be divided into twenty-four dofes, one of which may be taken by children of eight or ten years of age, every four or fix hours, while the patient is awake .-- To make this or any other preparation of the bark fit better on the ftomach, the patient should first Q 2 eat

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Hooping-Cough.

eat a bit of bread, or other light food, that the bark may not be received into an empty ftomach.

HOOPING-COUGH.

THE Hooping-cough is a difeafe unknown, probably, to the old writers; the Greek and Arabian phyficians make no mention of it, and indeed it has not been well underftood in any part of Europe, till of very late years. Even Willis fuppofed its feat to be in the breaft, but Harvey makes it a difeafe of the ftomach, and Aftruc an inflammation of the *larynx* and *pharynx*, produced by an original affection of the former, from indigeftion. He feems to have been one of the firft that difcarded the ufe of oily and pectoral medicines, (which indeed fome practitioners have been weak enough to revive); though he advifed bleeding too indifcriminately.*

This diforder furnifies another proof of the obfervation made on the impropriety of fubmitting the complaints of children to improper hands—the care of old women, and trequent change of air, being all that this diforder is thought to require : but perhaps the maxim was never worfe applied. There is,

* See his Difeases of Infants.

is, indeed, a milder fort of hooping-cough, as there is of every difeafe, that calls for very little medical affiftance; and it is always in fuch cafes, that matrons and nurfes acquire their credit. But there is no complaint of children with which I am at all acquainted, in which medicine is at times more evidently ferviceable, than a bad hooping-cough.

This difeafe is certainly highly infectious, and one of those that never appears a fecond time. It often begins as a common cough, and is attended with the ufual fymptoms of having taken cold, but in its progrefs foon becomes more fevere : the longer it may be before it plainly difcovers itfelf, by the boop, the more favorable it is likely to be. The fits of coughing are attended with a peculiar noife, not ill-expressed by the term hoop, and is fufficiently known to every parent who has ever had a child feverely attacked by it, and to whole feelings, it proves one of the most distressing complaints their children are liable to. A flux of rheum frequently comes from the mouth, nofe, and eyes, and the food is thrown up, together with a viscid phlegm, (often in great quantities) in the coughing fits; between which the child generally appears to be perfectly well, and eats its food very heartily. These are the more common fymptoms, but when the difcafe is violent, and has continued for fome time, they be-Q 3 come

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come greatly aggravated, efpecially in the night, and the child will feem almost ftrangled in each fit, and the face and neck becoming perfectly livid, till by a violent effort, attended by a hoop, it recovers its breath ; the blood will likewife fometimes rufh from the nofe and mouth. When taken in time, and properly treated, it is, however, rarely fatal, and fcarcely ever but to young infants.

Dr. Armstrong has strongly recommended wine of antimony as the proper and only remedy* for this, as well as for almost every other complaint of infants, which, however opposite, in this cafe, the remedy may be, in a general way, is faying no more than that emetics and gentle laxatives are ufeful, which all modern practitioners are agreed in; and in which view, Dr. James had long before recommended his powder. But the fact is, that many other means are equally ufeful, and not unfrequently indifpenfably neceffary, unlefs we should fuffer the patient to be strangled in a fit of coughing, or fall into a decline, from the injury which the lungs must endure by a frequent repetition of fuch violence.

This must be exceedingly apparent from the above history of the difease, the various symptoms

* In his fecond edition, many other means are recommended.

fymptoms of which, certainly demand a confiderable diversity in the treatment. The more important ones are, the flate of inflammation, fometimes inducing peripneumony; the quantity and viscidity of the phlegm; and the fpafmodic affection, and danger of fuffocation; together with the exhausted state into which the patient may be reduced by the long continuance of the difeafe. If the breathing therefore be difficult, a blifter is indicated, which if the child is not very young, may be kept open for two or three weeks. If the face fhould be very livid and fwollen, during the fits of coughing, if any veffel give way, or the patient be plethoric, and more than two or three years old, or fhould be hot between the paroxyfms, a little blood ought to be taken away, (which is fometimes inexpreffi-bly ufeful) and a faline draught be adminiftered, every fix or eight hours, till the fever shall disappear. Otherwise, if none of thefe fymptoms attend, bleeding does not feem, in general, to be indicated, but may rather have a tendency to protract the difeafe, by increasing the spafmodic disposition, and by weakening the patient.

If there be an inclination to vomit, it ought to be encouraged, unlefs the phlegm be brought up with great eafe in almost every fit of coughing, in which cafe, nature feems able to accomplish the business herfelf

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felf, and it will then oftentimes be fufficient to keep the body open by the mildeft laxative medicines. But it very rarely happens, unless in infants at the breast, that some kind of emetic is not neceffary in the first state of emetic is not neceffary in the first stage of the complaint. The difease, indeed, ve-ry frequently requires no other medicine, for fuch usually keep the body open at the fame time, which it ought always to be, but not to fuch a degree as to weaken the pa-tient. For this purpose, perhaps, wine of antimony may be as present as one this antimony may be as proper as any thing, when it answers the end, but it is less certain than tartarifated antimony, and is not always, I think, of the fame flrength. The latter is alfo rather taftelefs, and will therefore have an advantage over every other medicine, when we are prefcribing for children. Two grains of this in two ounces of water, with the addition of a little fugar, is a medicine to which children will never make any objection. From one to two tea-fpoonfuls, given to a child of a year old, (varying the dofe according to the age) will in general, act fufficiently ; and may be given upon an empty flomach, every day, or every other morning, according to the ftrength of the child, and violence of the difeafe. If the cough flould happen to be more violent at any particular time, the emetic flould be given a little before the paroxyfin is expected. Or perhaps a ftill better

better method, at least in some cases, and particularly in very young children, is, to give the tartarifated antimony in fmaller dofes, together with a few grains of magnefia, or prepared oyfter-fhell powder, (according to the state of the bowels) three or four times a day, fo as to keep the ftomach in an irritable state, as shall secure a gentle puking every time the fits of coughing come on. But in whatever way this medicine be directed, it will prove of no fervice if it does not vomit, and must therefore be given in a dofe fuitable to the ftrength of the ftomach, which is exceedingly various, not only at different ages, but in children of the fame age, and of the fame apparent habit of body. If the tartarifated antimony has any advantage of the wine, it has much more over every other emetic I have made use of, the ipecacuanha, and oxymel of fquills, being exceedingly unpleafant, and the latter likewife uncertain.

Such a plan is all that will be neceffary in the common hooping-cough; but it has been faid, there are many cafes which will require other means, and demand all the fkill of the experienced phyfican. The cough, for inftance, will fomtimes increase not only for days, but for weeks together, and the ftrangulation be exceedingly alarming. In this cafe, the milk of gum ammoniacum, but efpecially afa fœtida, frequently proves

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proves a fovereign remedy, and though exceedingly naufeous, many children will take it tolerably well for the fhort time it appears to be abfolutely required; and when they will not, it may be administered by way of clyfter, diffolved in two or three spoonsful of penny-royal, or common water. These medicines, however, will be improper in the very advanced stage of the difease, when attended with hectic heat, hemorrhage, or other phthyfical fymptoms; a caution equally neceffary in regard to the bark, which in the absence of these fymptoms, and after the ftomach and bowels have been well cleanfed, is frequently very useful at the latter stage of the difease, when the patient has been exhausted by its long continuance. Upon the fame plan with the afa foetida, camphor and caftor are frequently beneficial, and have the advantage of being lefs naufeous, but I think are proportionably lefs powerful. I take no notice of tincture of cantharides, though strongly recommended by fome writers, becaufe I have had no experience of it myfelf, and indeed have never found any neceffity for trying it.

It will fometimes be of no fmall fervice, to rub the hands, and the foles of the feet, with the compound fpirit of ammonia, feveral times in the day; or the fpine of the back, and the pit of the ftomach, with oil of mace, (fo called) or oil of amber; but

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as the finell of the latter is very unpleafant, it may be difpenfed with where the fpafms are not exceedingly urgent. But when they are fo, this oil is fometimes very ufeful, particularly when administered internally, and children of three or four years will often take a few drops of it very well, mixed in a fpoon with a little brown fugar; from which I have feen as evident advantages, as from any medicine whatever. In a little child of my own, it immediately gave a turn to the complaint in the most violent hooping cough I ever met with, and after almost every other medicine had been tried to no purpose ; fo that from the hour she took it, the complaint was no longer alarming, nor tedious of cure. But frequently, no antispafmodic is equal to opiwith this view, two or three drops of lau-danum, and, to younger children a fmall tea-fpoonful of fyrup of white poppies, or to grown people from five to ten grains of the pilula è flyrace, taken at bed-time, will not only quiet the cough, and remove the ftrangulation during its operation, and pro-cure the patient fome reft, by which the strength will be recruited, but in many cafes, feems to have a kindly operation on the difeafe itfelf. It is in this way, I doubt not, that the cicilta once feemed to gain fome reputation, but I believe, it is no other-

otherwife a remedy for it than an anodyne. From a miftake, however, in this refpect, the ftrong manner in which this medicine has been recommended by Dr. Butter, has certainly done harm; as I have known many people depend folely upon it in very bad cafes, to the exclusion of other remedies evidently indicated, which would, at leaft, have fhortened the difeafe.

If obftructions in the lungs be fufpected, blifters fhould be applied, and recourfe had to gently deobftruent medicines; but at this period, the cure is chiefly to be accomplifhed by a vegetable and milk diet, (efpecially affes milk) pure air, and gentle exercife.

The cough after having difappeared for a week or more, is fometimes found to return with great violence, efpecially upon taking cold; but a gentle purge or two, a vomit, and abstaining from heavy food, general remove it in a very fhort time. If thefe cautions fhould be neglected, the cough will often prove extreme tedious.

The only thing that remains to be fpoken of, is the proper diet, which for children even of five or fix years of age, ought to be little more than milk and broths. Thefe are eafily digefted, and will afford them much more good nourifhment than any kind of meats, and will fit much lighter on the ftomach than puddings, or paftry, the latter

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of which is exceedingly injurious. The objection made by old nurfes against milk, that it breeds phlegm, is utterly founded in a großs mistake that cannot be too frequently controverted. It has, indeed, been fometimes mentioned by a certain clafs of medical people, but the objection is fo unphilofophical and unlike objections of thinking men, that it fcarcely deferves a reply. Should the milk, however, be found to curdle remarkably foon on the ftomach, a little common falt, Castile soap, or testaceous powder, may be added to it occafionally; or where it can be afforded, affes milk may be fubstituted for cow's. These light nourishments foon pass out of the stomach, or if brought up by coughing fifty times in the day, (as I have known them to be) a child of four, or five years old, will immediately take more of them with avidity, and will be better fupplied in this way, I mean by taking a tea-cupful at a time, than by making fet meals, or taking a large quantity at once. If the child fhould be thirfty, a little apple-water, toast and water, and other thin drinks, will be pleafant and useful. Patients treated in this way, will get through the complaint, if not fevere, in a very fhort time; and where it proves violent, a child will ftruggle through this long difeafe without any confiderable lofs of ftrength, or will be very foon recruited by a decoction, or cold infusion of R the

Spafmodic-Cough.

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the bark, together with gentle exercife, and a little country air, the beft reftoratives after every kind of difeafe. Such at leaft has been my own experience in this tirefome complaint, by which I know parents are ufually as much alarmed as by any incident to childhood. But unlefs it has been long neglefted, or taken place in the month, I have never experienced it to be fatal, and then only in one inftance, though I have known eight or nine children in a family labouring under it at a time; and I wifh to mention this as an occafion of confolation to thofe who may have been led to think more formidably of it.

Spasmodic-Cough.

VERY much a-kin to the former complaint, is a troublefome cough, properly enough denominated fpafmodic, or convulfive. In a certain state of the air it is sometimes epidemic, and young children, and even infants in the month, are then attacked by it, as well The irritation feems to be about as adults. the larynx, (or fuperior parts of the throat) or only a very little lower down, and is very distreffing, at the time of coughing; but the patient, though an infant, feems immediately afterwards to be quiet and comfortable. This cough is not usually attended with fever, nor other ordinary fymptoms of The Croup,

a common cold, nor is it to be relieved by the like means; the cough remaining dry and hoarfe under the use of pectoral remedies.

Children of four or five years old may be cured by the cicuta, and gentle laxative remedies; but the former being lefs adapted to infants in the month, fuch may take a few drops of the fyrup of white poppies, three or four times a day, and their bowels be carefully kept open; which means feldom fail of removing the complaint in three or four days.—Should the fyrup conftipate the bowels, or otherwife difagree, Bates's Sp. Sal. amminon. fuccinat. may be tried in its ftead; which is a good medicine in other dry convulfive coughs, where there is no fever.

THE CROUP.

T HE Croup, or acute afthma, is a complaint fomewhat fimilar to the two former, to which, perhaps, children only are liable, called therefore afthma infantum fpafmodicum; also fuffocatio stridula.* It rarely atmacks those who have arrived to the age of ten or twelve years, and chiefly feizes infants newly weaned; at which period it is R 2 the

* Esquinancie membraneuse.

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The Croup.

the moft fevere. Dr. Millar is, perhaps, the first perfon in this country who has written particularly on this complaint; but it has been mentioned by fome German writers, and well defcribed by them long before it was noticed in Britain.

Remote caufes of this difeafe may poffibly be the lax fibre of children, the abundance of moift humours natural to them, and the vaft fecretion from the bronchial, or air veffels; and perhaps the change of food from milk, which is eafily affimulated, to one requiring more digeftion.

The prophylaxis, or mean of prevention, is the fame as in moft other difeafes peculiar to children. If this complaint arife from the laxity of their folids, the quality of their food, and the natural weaknefs of their organs of digeftion, the general means of prevention, as well as of cure, will be readily indicated.—Their food fhould be fuch as may be eafily digefted, and may prove nourifhing. A due proportion of milk and broth, * taken feparately, whilit children are very young, or light meats when they become older; good air and exercife, and a careful attention to the ftate of their bowels.

* A diet of milk only, even in adults, when long perficied in, though otherwife proper, will create flatulencies. Berry on Digeflion.

The

The Croup.

The proximate caufe of this complaint is a morbid fecretion of a vifeid mucus in the *trachea*, adhering fo firmly to its fides as to impede refpiration. The quantity and vifcidity increasing, gradually leffens the diameter of the wind-pipe, and if it effect this to a confiderable degree, the difease must neceffarily prove fatal.

The Symptoms of this complaint are fpafmodic, being fuch as would be produced by any other matter conftantly irritating the trachea, and diminishing its diameter. They will therefore very much refemble those of the nervous afthma, but the complaint differa materially from the common spafmodic afthma of adults, in the peculiar croaking noife made in refpiration, (from whence it has its name) and in the violence of the paroxyfins; which, however, leave no apparent indifpetition, fave a certain dulnefs, and a fense of fear, in children capable of expreffing it. The fits frequently terminate by fneezing, coughing, or vomiting, and return without any regularity. It is attended with a quick palfe, laborious breathing, a fharp, and thrill voice, and a fluthed countenance, which grows livid during the paroxyins, or fits.

The diforder is probably inflammatory in the beginning; and though this period feems to be very flort, yet flould the phyfician be confulted as foon as the diforder R 3 might might be afcertained, both emetics and bleeding might be ufeful; but after the *crcup*, as well as difficult refpiration have thoroughly taken place, it would be improper to have recourfe to any debilitating means.

It does not always feem to be an original difeafe; being fometimes a confequence of bad fevers, and of fome chronical diforders that have reduced the patient's ftrength. It frequently appears to arife from the fame caufes as the malignant fore throat, only having its feat lower down, and is therefore more dangerous. And it has, in feveral inflances, accompanied the malignant forethroat, as may be known in the early flages of that complaint, by the croaking noife peculiar to the croup; and, I believe, is in fuch inflances generally fatal.

It is divided into two principal ftages; in the latter of which no method of treatment has appeared to be effectual, but medicine is never more efficacious than in the firft, if the diforder be not combined with fome other, and it be taken in time, though the crouping may be very confiderable. This I faw remarkably exemplified in a little boy of my own, who was nearly cured in two days.

The fovereign remedy feems to be afafœtida, which ought to be administered both by the mouth and in clysters, according to the

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The Croup.

the exigency of the complaint; and in the first instance, before any marked inflammation has taken place, may be given very freely. Antecedently to this, however, it may often be prudent to apply a leech or two to the throat, efpecially if there be any perceptible fulnefs of that part, and a blifter to the nape of the neck. At the close of the complaint, and to prevent a relapse, the bark proves highly ferviceable, and will alfo reftore the ftrength of the patient; returning, however, to the afafætida, if there should be any threatening symptom of the althmatic affection, which is not uncommon. Should a patient fuffer two or more relapfes, to which a moift air will peculiarly expose him, fome discharge, by a blifter, or iffue, ought to be procured, and continued at least for some months.

The French writers depend much upon emetics, and afterwards lenient purges; and to prevent a return, advife aperitives, ftomachics and tonics, particularly preparations of steel, and natural chalybeate waters.

I have examined the *trachea* after death in only one patient, in which I found the precife appearances deferibed by Dr. Millar; the wind-pipe being lined by a tough vifeid coat, fo as mechanically to clofe up the paffage.

RICKETS.

RICKETS.

THIS is a late diforder in Europe: Aftrue obferves that England is faid to be the part in which it first made its appearance, and that it was then deferibed by Gliffon and Mayow; but he thinks it probable, that it appeared at the fame feason over all Europe, through the coldness of the weather. It was named rachites, from the Greek, implying that the fpina dorft is particularly affected by it; * though it rarely attacks the fpine till the diforder is far advanced.

It was first noticed in the western parts of England, † about the year 1628,§ and is faid

* From this circumstance, it has been supposed to have been known in the time of Hippocrates; but his remark (Aphor. § 3.26.) is certainly too concise to establish the fentiment; as it is simply observed, that among other complaints, infants after the period of dentition, are liable to $\pi api \partial \mu a$, $\pi ord \nu \lambda z$ are nave nor size wors: --In Monf. Le Febrice de Vilebrune's Greek edition of the Apherisms, there are, however, some observations tending to evince, that this difease is of an older date, by some centuries, than it has been generally imagined.

+ See Gliffon. § Primerofe.

faid to have taken place upon the increase of manufactures, when people left the villages and hufbandry, to fettle in large manufacturing towns; where they wanted that exercise, and pure air, which they had enjoyed in their former fituation, and employments.

It may therefore frequently arife from unhealthy parents, efpecially from mothers who pafs too fedentary a life in a bad air, and feed upon a weak and watery diet : from children's food being weak, watery, or too vifeid to be properly digefted; but above all, perhaps, from bad nurfing, and the child's being left wet, dirty, or expofed to a cold moift air,* without fufficient covering; from want of proper exercife, and from clofe and crouded apartments. Or laftly, from the habit of body being reduced by the long continuance of almoft any of the complaints hitherto confidered.

The ufual fymptoms of rickets are foft flefh; bloated, or very florid countenance; weaknefs; diflike to motion; with enlargement of the belly, head, and joints. The wrifts and ankles enlarge first, afterwards the back, and breast-bones; and indeed all the bones fwell and become fost, effectively the

* It is remarkable, that this complaint is fcarcely known in very hot climates.

Rickets.

the more fpongy ones. The pulfe is quick, and feeble, and the appetite and digeftion ufually bad. Teething is commonly late, though not frequently difficult, but the teeth often rot early, and fall out. Great acutenefs of mind has been obferved, in this, and fome other chronical complaints. It feldom attacks children before they are fix months old, or above two years.

As it appears to arife from a general weaknefs and relaxation, the indications of Cure are to brace and strengthen the folids, and to promote digeftion, and the formation of good chyle. Thefe ends will be promoted by wholefome food, fuited to the age; good bread, or bifcuit; dry food; and roafted meats, rather than boiled; with a little red Port wine. Should the child be too young to eat flesh meats, its diet ought to be chiefly of rice, millet, pearl-barley, falep, and femolina, with fpices, if it be not inclined to be feverifh. It must also have good nurfing, and efpecially exercife and air, without being kept too hot or too cold : without a very firict attention to thefe, medicine can be of but little fervice. If the child is of a grofs habit, the eighth part, or a quarter, of a grain, of ipecacuanha powder, taken once or twice a day; gentle pukes, and very brifk purges, efpecially of the powder of feammony with calomel prove of use. In such habits, all foundation of a cure

Rickets.

cure must be laid in reducing the belly to its proper fize, and in ftrengthening the ftomach. If rather delicate, the cold-bath is often of more fervice than any thing elfe: but this fhould not be entered upon in winter, nor without previous purging. Fric-tions afterwards with flannel and aromatic powders, or the fumes of frankincenfe, mastic or amber, especially on the back and belly, will farther tend to ftrengthen the habit. Besides these, may be given the cold infusion of bark, and other bitters, or small dofes of the martial flowers, or the vinum ferri ; but a good diet, air, and exercife, especially riding on horse-back, are of the utmost confequence, and if duly perfevered in, will often effect wonders. This is one of those chronical or lingering complaints which feem to be gotten the better of by time, and like the following one, wears itfelf out, as it were, (if the vital parts do not happen to be affected) and to which the abovementioned means will greatly contribute-Sape Pertinacia Juvantis, Malum Corporis vincit. CELSUS.

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SCROFULA, or KING'S EVIL.

THIS is primarily a glandular difeafe, though in its progrefs it attacks the adipofe membrane, the eyes, the muscles, tendons, and even the bones themfelves, efpecially the joints. It feldom makes its appearance before two years of age, nor later than ten or twelve, (except it be in regard to affections of the eyes) though there are a few exceptions in regard to the flatter period, and it then often proves fatal, by falling on the lungs, or other noble part. It is frequently observed to follow other diforders, particularly the fmall-pox, whether taken naturally or from inoculation, but more efpecially the former; alfo the hooping-cough, meafles, teething, rickets; and many other diforders already mentioned. Hence, the nature of this difease is better underflood, as it fo often falls upon weak and tender habits, either originally of a lax fibre, or worn out by previous difeafes; or is gradually brought on by a heavy, indigeftible, and bad diet, or a low, wet, and unhealthy fituation. It is, however, fometimes found to be hereditary, but will very frequently lie dormant for two or three generations, and afterwards appear with redoubled violence. It is often attended, or rather 2

Scrofula, &c.

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rather preceded, with a peculiar look about the eyes, which are generally large, and a thickness of the upper lip; and fometimes proves a fource of ill-health through life, but is not usually fatal in the first instance. Long before the external glands become affected, cfpecially in young fubjects, the bel-ly is obferved to be hard and enlarged, and after death, the mefenteric glands, and even the pancreas have been found difeafed.

Though this is a very unpleafant complaint, and one that does not often admit of much relief, yet it frequently difappears at the time of puberty (and fometimes fooner) efpecially in females; but whether this be owing to the increased strength of the folids, or to other changes in the habit, naturally happening at that period, is not an inquiry proper for this place.

Although I thought it neceffary to mention this difease amongst others to which the state of childhood is liable, I am fenfible how difficult it would be to point out any thing like an adequate remedy. At its first appearance, however, bitter, or mercurial purges, are fometimes of ufe, as are alfo antimonial vomits, and fometimes faponaceous medicines. But when the difease is confirmed, lime-water, and deccetions of the woods, together with crude antimony, bark, and fteel, with wine, and a generous diet, are, I believe, most to be depended S upon

Scrofula, or

upon as internal remedies; from fome of which, I have feen no inconfiderable cures effected. But in this, as in other chronical complaints, good air and exercife are of the greateft importance. Indeed, the advantage of exercife in this difeafe is fo great, that I wifh to lay a very great ftrefs on it. But then it must be daily had recourfe to, and, by degrees, be fo confiderable, as to render the patient every night fenfibly fatigued. Thus, I have known riding behind a carriage, (as I have noticed in another work), almost without the aid of any medicine, entirely remove the complaint.

When there are external tumors, I am fatisfied that the opinion I have already given to the public, in a larger tract on this complaint, is both rational and fafe; and that whenever they are at all difpofed to come forward, they ought to be brought to as fpeedy a fuppuration as is poslible, and be treated as I have there recommended. The fcrofulous virus when thrown on the furface, fo far refembles the cancerous, according to the defcription of the ingenious Mr. Hunter, that it is inclined to fpread to a confiderable extent; but as tumors of the former class will bear rougher treatment than the latter, I am confident that much benefit may arife from the use of external ftimulants, by stopping the progress of the diforder in the neighbouring parts, as well

as by invigorating them, and thereby difpofing the ulcers to heal. Alfo light frictions with mercury, fo as to make it pafs freely through the lymphatics of the diftempered parts, without affecting the fyftem, have in a courfe of time been beneficial, and deferve to be brought into a more general practice than they have hitherto been. I have lately had farther reafon to be

confirmed in the above opinion refpecting ftimuli, from obfervations communicated to me by Mr. Partington, who fince the hints I threw out in the afore-mentioned work, has made use of electricity with very good effects, in thefe, as well as other cold tumors and ulcers I had mentioned; which have all healed very kindly, in confequence of this stimulus to the parts. When ferofulous ulcers have been healed, and only fome fmall tumors remain, I have experienced very good effects from the external use of as strong a so'ution of camphor in oil of almonds as can be made, which has difperfed them very foon ; and I have found it the best remedy, and a very fuccefsful one, in the cure of the incipient bronchocele, though enlarged to the fize of a turkey's egg; and requires only to be very well rubbed into the parts, three times aday. The patient should at the fame time take a dram or two of the tartarifated natron every morning .- I shall only add, on the S 2

Hydrocephalus, or

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the head of fcrofula, what is very well known, that fea-bathing, alone, fometimes effects a perfect cure. Should the child therefore have feveral fcrofulous tumors, or the habit be conceived to be much affected, trial fhould be made of the fea, in whatever manner it may be determined the tumors fhall be treated, if not difperfed by fea-bathing.

Hydrocephalus, or Watery-Head.

T HIS complaint is diffinguished into the the external, and internal; in the former, the water lies upon the furface of the brain, over the pia mater, but in the latter it is feated much deeper, within the ventricles. The external makes its appearance at, or it is faid, in fome inftances, foon after birth. But children with bydrocephalus externus are more commonly ftill-born, though I have known one arrive to ten years of age, * who was then unable to walk, or even to fit upright in a chair. From a very recent inftance, however, I have learned, that when no fymptoms of hydrocephalus appear

* See Medical Communications, vol. I, in which there is mention of one attaining the age of 29, and another, 45 years, who were then both living; the former did not appear to have any enlargement of the head for three weeks after birth. Watery-Head.

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pear at the birth, the water is fometimes, at least, contained within the ventricles of the brain: and from the circumstance of no children living long with an internal bydrocephalus, but fuch whofe heads enlarge within a few months after birth, I fhould fuspe& the diforder has, in fuch inftances, taken place in the womb. The fatus, at this time, enjoying only a kind of vegetative life, may arrive to maturity under fuch a difeafe; various inftances being met with, in which full grown fatufes have had neither head, nor heart, nor lungs. Accuftomed to the above-mentioned difeafe, we may prefume fuch infants more likely to live for a certain time with water in the ventricles, than those in whom the difease takes place fuddenly, after birth.

In the inftance alluded to, the child's head began to be fenfibly enlarged when the infant was about four months old, and the child lived to the fifth year, unable to walk, or even to fupport its head. Upon a careful examination of the parts after death, the water, to the quantity of three pints, as I am informed by the furgeon, was evidently contained within the ventricles: which were fo stretched as to compress the brain in fuch a manner, that it appeared only like a fmooth thick membrane within the dura mater; and of all the folid contents of the S 3

Hydrocephalus, or

the skull, scarce any thing but the cerebellum remained.

The external hydrocephalus, at whatever period it may commence, has always been esteemed a fatal, as well as most diffreshing complaint; but I have been informed, that where the diforder has not been very manifeft at the birth, blifters on the head have fenfibly diminished its fize. These should be applied, fucceffively, to different parts, especially along the top of the head, in the courfe of the longitudinal finus, fo as to keep up a conftant difcharge; which from the good effects in two or three cafes, when had recourfe to in good time, may poffibly, in fome inftances, effect a perfect cure: at least, the advantages already observed are fufficient to justify the attempt, in a diforder hitherto esteemed incurable.

Of the *internal* watery-head it may be proper to treat more largely, though I have nothing really new to offer in regard to the cure. It ufually takes place between the age of two and ten years; is a like melancholy complaint with the former, and the method of treatment not yet well eftablifhed; and as it can hardly be afcertained whether any have recovered from it, (the certainty of its exiftence fcarcely being known but by examination after death,) it is not likely that a very determined, and fuccefsful treatment will fhortly be fettled. It may probably

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Watery-Head.

probably arife from falls and blows on the head, or from an original laxity of the brain; from schirrhous tumors and excrefcences within the fkull; a watery flate of the blood, or a lingering illnefs. It appears, likewife, to be a family complaint in fome inflances; for I have known fix children, born of the fame parents, die fucceflively of it at the age of two years, five of whom were afterwards opened.

The attack is fometimes very fudden ; but the complaint more commonly begins with the appearances of flow fever, efpecially in older children, with debility of the arms, and pains in the limbs, efpecially the upper part of the neck. After a while, the child is fuddenly feized with pain in the fore part of the head, and retches : It becomes heavy and dull; can bear no posture but that of lying horizontally; the pulfe becomes irregu'ar, but ufually very flow; in the progrefs of the difeafe the faculties and fenfes are impaired, and the eyes are offended by the light; the patient fees objects double, and becomes delirious. As the difeafe advances, the pulfe grows frequent, the cheeks become flushed, the pupils of the eyes are dilated, the ftools and urine come away involuntarily, and the patient lies fleeping, or is convulfed.

In the youngest subjects, I have known it begin with a cough, quick pulse, and difficulty

Hydrocephalus, or

difficulty of breathing, attended with circum/cribed flufhed cheeks as in teething, occurring on every little exertion, with continual fever and costiveness; and fometimes a difcharge from the nose and eyes.

Symptoms indicative of the difeafe at this age, are, a hand often put to the head, or litted upwards, and waving about ; vomitings; coftivenefs; expression of anxiety, and diffike to be moved : at other times, an unmeaning look, and marks of infeufibility; the fingers often clinched, and hands tumid; diowinefs; the eyes in fome cafes impatient of light, in others, vision is fo imperfect, that the child does not regard any object however clofe to them. The pupils are often not dilated till near the clofe of the difeafe, and patients often hear and comprehend. and take food to the last, and die fuddenly upon the decline of the febrile fymptoms, when they have been thought to be recovering. Thefe and other fymptoms, however, laid down as indications of water in the brain, are, in fome degree, common to other difeafes of children, efpecialy the dilatation of the pupil, and fleepinefs, in fevers arifing from fowl bowels.

For thefe reafons, it is difficult to fay if medicines are fo often fuccefsful as hath fometimes been imagined; for when a patient recovers, it may be fulpected he has not had the true difeafe. Practitioners feem chiefly

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Watery-Head.

chiefly to have depended upon repeated bleedings; purges with jalap, or calomel; blifters to the neck or head, and diuretic medicines. A large bleeding early in the difeafe I have thought very beneficial, efpecially in children of a robuft habit. The ufe of fternutatories, as powder of afarum, or white hellebore, and electricity, have likewife ben recommended by fome experienced practitioners; to all which I would add the application of a narrow cauftic, the whole length of the head, in the courfe of the *longitudinal finus*, inflead of trufting to a fmall blifter on the crown.

Though I have made mention of calomel, I cannot fay I have feen any good effects from the ufe of mercury, either as a purge or an alterative ; and on that account fhall not enlarge on the different manner of exhibiting it with either of thefe views. It has, however, been ftrongly recommended by Drs. Dobfon, John Hunter, Haygarth, Mofely, and Dr. Armftrong ; but I am informed by other phyficians of eminence, that they have not been fo fuccefsful in the ufe of it ; and fome good arguments have lately been advanced againft an indiferiminate recourfe to it, by Dr. John Warren ; who advifes trial to be made of emetics.

INCONTINENCE of URINE.

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THIS is not a very common complaint, I believe, in children, unlefs combined with the ftone in the bladder, and then is not fo constant, nor to the degree that is intended here. It is an involuntary flow of the urine, fometimes by day as well as during the night; arifing, I apprehend, from a relaxation or other affection of the Sphineter of the bladder, as in old people, but is not attended with manifest fever, nor fymptoms of decay. An affection of this kind, in which the urine runs away in the fleep only, is perhaps, more common ; and I have known it continue to the age of fifteen or fixteen years when not properly treated, and afterwards yield to fea-bathing. The total incontinence generally comes on gradually, and is fometimes attended with exceffive gonorrhæ, even in very young children.

Tincture of *catechu*, or of *gum kino*; the bark; *balfam-copaibæ*, and white vitriol may be made trial of; but nothing is ufually fo effectual as repeated blifters applied over the *as facrum*, or lower part of the back; and proper dofes of the *tinctura cantharidis*. This may be given in dofes of ten or fifteen drops to children from five to ten years of age, and increafed to two fcruples and a dram; The Seven-days-Difeafe. 215

dram; which has general removed the complaint if there has been no morbid affection of the fpine, as is fometimes the cafe. If these means should fail, recours should be had to fea-bathing.

THE SEVEN-DAYS-DISEASE, &c.

SHALL close this part of the work with a brief account of two very extraordinary diforders, which fhould have been noticed among the earlier complaints of infants, if they had been difeafes of this country, or even much known in other parts of Europe. As the feven-days-diforder has, however, made its appearance in this quarter of the globe, and may, therefore, at fome future period, become more common, it may be proper it fhould be mentioned in a work of this kind. The following account is translated from the French of Mr. Le Febure de Villebrune, who refers to the Spanish work of D. Ulloa, (Disc. XI. §§ 19 and 20) and Barrère's Voyage to Guinea.

§ 19. The difeafe of feven days of newborn infants is common in both quarters of America, and equally dangerous in the high, as in the low parts. A great number of infants die of it, without any thing preceding that could occasion it to be fuspected. They are, 216 The Seven-days-Difease.

are, on the contrary, apparently healthy and robuft, when the diforder makes its attack in the form of epilepfy; and few of thofe who are visited with it are found to recover. Though this complaint is not altogether unknown in Europe, it is neither fo common, nor fo dangerous. It is conceived, that the beft preventative were to guard infants from being exposed to the wind, till the first feven days are over.

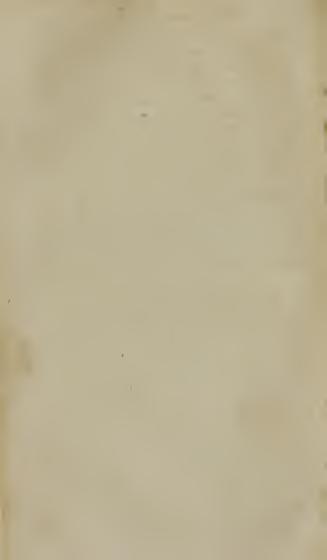
§ 20. But infants at Guaneavelica are still liable to another very extraordinary complaint. Having escaped the feven-days-difeafe, they thrive well until the third or fourth month; they are then feized with cough and pulmonic affections, which they call pecheguera. The complaint goes on increafing without any fenfible relief from the medicines made use of; and a fwelling tak-ing place, they prefently die. The difor-der attacks only the white people, or children of the Spaniards; the Indians and the mongrels are not fubject to it. The way to escape it, is to remove the infants from the fpot, before they are two months old, and to carry them to more favourable climates, into one of the Zuebrades, (or the low grounds between the mountains) that are at a little diftance. It is imagined, that the cold and intemperature of the climate is the occasion of infants being fo foon feized with this complaint. This may be the cafe in fome

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The Seven-days-Difease, &c. 217

fome degree : but the vitiated habit of body of their parents, and the fulphureous vapours continually iffuing from the furnaces for the extraction of mercury, may likewife contribute to it. In fact, thefe vapours are fo abundant, that when reunited by means of the cold, they form fuch a thick cloud in the atmosphere, during the feason there called fummer, as to cover all the colony. *Notic. American. Difc.* II. p. 205. L.

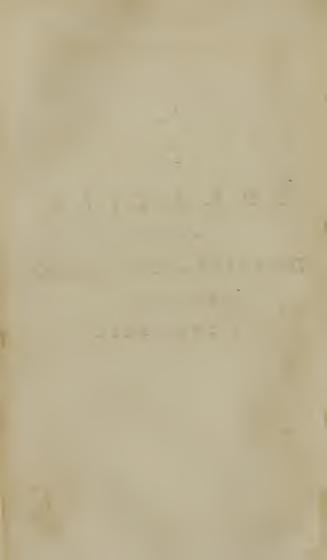
THE END OF THE FIRST VOLUME.



T R E A T I S E ON THE DISEASES OF CHILDREN. VOLUME THE SECOND. IN TWO PARTS.

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TREATISE, C.

PART I.

AVING already confidered all the more important Difeafes for which the Phyfician will ufually be confulted, there remain now only fome leffer matters in that line. But befide these, there are many complaints which relate rather to the province of Surgery, and others that may be faid to be of a mixed kind, but have each a reference to the department of Midwifery. Of these last, more especially, not a few may very well fall under the care of another class of readers ; their nature and treatment, it has been already noticed, being in this edition rendered more obvious and intelligible. To the Difeafes will follow fuitable T 3 Directions

222 Tinea, or Scald-Head.

Directions to Parents and others, for the general *Management of Infants* in every article of importance to their Health; to which particulars the *fecond part* of this volume is wholly devoted. — The first Complaints I shall mention relate to *contagious Eruptions*.

TINEA, OF SCALD-HEAD.

THE Scald-head is a very troublefome complaint, and is faid to be often a fcrofulous fymptom; but I rather think it is ufually communicated by contact, and when lighting on a fcrofulous habit may be more difficult of cure. I have never met with it in infants, but it being no uncommon complaint in the later periods of childhood, it may be proper to notice it, as it fometimes proves a very tedious difeafe. I hope, however, to point out a fuccefsful method of cure, the unpleafantnefs of which has, improperly I think, prevented its being more generally adopted.

From fome confiderable experience, I may venture to fay, that being ufually a mere complaint of the fkin, it may be moft fuccefsfully treated by outward applications. This difeafe is feated in the little glands at the roots of the hair, is fometimes dry, but at others moift, and then produces little ulcers, Tinea, or Scald-Head.

cers, which being thoroughly cleanfed, and made to digeft, may be fafely healed up, as I have found in many other affections of the fkin.

It is not uncommon, I know, to admininifter a variety of internal remedies, and perhaps they may fometimes be required, though I think I have feldom given any thing more than lime-water, or a decoction of the woods; and a few purges at the decline of the difeafe.

If the complaint be taken early, before it has fpread far over the head, and whilst the feabby patches are fmall and diffinct, it may be frequently cured by the fulphur ointment, with a fmall addition of the calx hydrargyri alba. And fuch a preparation may very fafely be made use of, if the patient be kept within doors, and his body be properly open; as it will be neceffary to rub in only a small portion, one or twice a day, on the parts immediately affected. But if the difeafe fhould fpread, or has already extended itfelf over a great part of the head, the hair must be shaved off, and the head washed twice a day with a ftrong decoction of tobacco; repeating this procefs till the fcabs difappear, and the hair grows up from the parts they had occupied. Or, instead of the decoction of tobacco, the head may be well washed with the lotio faponacea, with the addition of a fmall quantity

224 Tinea, or Scald-Head.

tity of the aqua kali puri, and the fcabs anointed with the unguent. hydrargyri nitrati in the place of the fulphur ointment and calx of mercury; the former being a very powerful, as well as a fafe application, and may be ufed in any quantity that may be neceffary.

But the complaint is fometimes of long ftanding before medical affistance is asked, and is not only extended over all the head, but the fcabs are thick, and rife high above the furface, returning as often as they may fall off. I have, however, never failed to cure the common tinea by a method perhaps well known, but too feldom complied with in time, on account of its apparent feverity. It confifts only in well washing the head with a piece of flannel, and a ftrong lather of foap-fuds, after it has been close shaved, and then rubbing in very forcibly the common unguentum picæ and a good quantity of the pulvis ellebor. alb. or other fafe de-pilatory, for near an hour at a time, always ufing it very warm; and covering the head with a bladder to preferve the ointment on the part, as well as to keep it from flicking to the cap, or other covering made use of. When this has been done three or four times, not only the fcabs, but the hairs will alfo loofen, which must be pulled out, however unpleafant the operation may be;

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Herpes Miliaris, &c. 225

as it will, indeed, prove a kindnefs in the end: but must be repeated till all the hairs be taken out, after which new hair will rife free from fcabs, which is a fufficient indication that the diforder is effectually removed.

There is, however, a spurious kind of fcald-head, that is fometimes more difficult of cure ; but it requires nothing but patience in the use of one or more of the above remedies, or at most, an alterative plan of the flour of fulphur, or of fome mild mercurial preparation, with the common decoction of the woods, or the Lifbon diet-drink. Or, fhould the difficulty confift in getting out the hair entirely, or deftroying the difeafed glands at its roots, the calx viva may be had recourfe to, in one form or other; and is exceedingly preferable to an adhefive pitch-plaister. In a few instances, the topical use of the unguent. hydrargyri mitius has a wonderful efficacy .- In the fpurious tinea particularly, it may be proper to open an isfue, or fix a seton in the nape of the neck.

HERPES MILIARIS, or SHINGLES; (RINGWORM.)

THE Herpes miliaris, and the Shingles are diffinguished by some writers, but I can see no good reason for it; and M. Aurelius

226 Herpes Miliaris, &c.

Aurelius Severinus and others, have efteemed them to be the fame diforder.

The Herpes, like the foregoing complaint, is a difeafe of the skin, infesting some children almost annually, and appearing in dry fcurfy blotches, on different parts of the body, and usually of a circular form. It becomes troublefome chiefly from the vio-lent itching that conftantly attends it, and would probably get well of itfelf: it even fometimes has the appearance of being critical, or is, perhaps, rather an indication of fome favorable change in valetudinarians, especially in adults, who are fometimes found getting the better of chronical complaints at the time the shingles makes its appearance. It is, however, often a blemish; as it frequently attacks the hands and face, and especially the forehead. It is amongst the vulgar errors, I believe, that when it appears on the breaft or loins, if it should extend round the whole body, it would prove fatal-This form of the difeafe is termed Zona herpetica.

The Herpes miliaris is alfo by many diftinguished from the ring-worm, (but perhaps needlefsly); the former being always supposed to arile from an affection of the fyftem, and to be preceded by fhivering, or ficknefs at the ftomach. They are cer-tainly both very eafily cured, and probably would alike difappear of themfelves. The Herpes

Herpes Exedens.

Herpes yields very readily to flimulating and aftringent remedies. Ink, therefore, as (as it contains an infufion of galls) has been a common, though inelegant application, and may ferve very well where better forms are not at hand : it is fometimes made into a pafte with the flower of muftard. Spirit of wine; faturnine lotions, with the addition of vinegar, or white vitriol; and ointments containing lead, anfwer very well; or an ointment of calcined zinc and lard : but the ung. hydrarg. nitrati is preferable to moft others : The ufe of a flefh-brufh is a good prophylactic, or preventive, in habits accuftomed to the complaint.

Should the fhingles fpread and become fore, it fhould be treated as directed below.

HERPES EXEDENS, or SERPIGO.

THIS is a malignant fpecies of the above complaint, but is generally local. It is mentioned only as having relation to the former, being rather a fore than an eruption, and not very common in children.

Suppurative applications may be made ufe of in the early ftage of the complaint, fuch as ointments of minium, foap, and Venice turpentine, or a fuppurative poultice, in order to liberate the difeafed glands on the furface, and abforb the acrid difcharge. After 228

After this, the parts fhould be walhed with faponaceous lotions, and laftly, with ftrong folutions of vitriol. Should thefe fail, the ung. hydrarg. nitrati will be proper, and as the laft remedy, cauftic applications; of which, butter of antimony is the beft, with which the little ulcers may be touched lightly from time to time. The patient may take at the fame time of a decoction of burdockroots, or farfaparilla.

SCABIES or ITCH.

THIS diforder fo commonly known and eafy of treatment, is mentioned only to introduce a caution to fome readers, against popular washes and girdles; which are generally either ufeless or hazardous. Such are often had recourfe to in order to avoid the unpleafant fmell of the brimftone ointment; which, however, rarely fails to cure the genuine itch. There is, indeed, a fpurious kind, as of the fcald-head, which is far lefs, or often not at all contagious, but is more difficult of cure than the genuine. Should the brimftone ointment therefore fail, fulphur fhould be administered inwardly, and fometimes mercurials; which may likewife be added to the ointment, and in a few weeks, at most, will not fail of removing the complaint. It is common to administer at the same time some alterative diet-drink.

OPHTHAL-

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OPHTHALMIN, or INFLAMMATION of the Eyes.

THE Eyes of new-born infants are very apt tobe inflamed during the first three or four days after birth, especially in the winter season. If it be owing to taking cold, it is probable it has been either immediately after the child was born, before it has been given away to the nurse, or very soon afterwards; and on this account, a flannel cap becomes a very necessary part of its covering before it can be formally dressed.

This kind of inflammation, however, is usually of very little consequence, and generally disappears of itself, upon merely keeping the head warm, or by washing the eyes with a little rose-water, to two ounces of which, in some cases, two or three drops of the water of acetated litharge, and a grain or two of white vitriol may be added. But there is an inflammation to which infants are liable, that sometimes continues a long while, and therefore calls for attention. I do not allude to that redness on the eye, known by the name of fugillation, or bloodshot, which will often remain a long time, return, and disappear again, without the least injury to the child; nor to the watery-

eye

Ophthalmia.

eye, which will sometimescontinue for many months, and even for years. But that which I here intend, is accompanied with the true appearances of ophthalmia, or intlammation of the white of the eye, attended with a discharge as in the ophthalmia of adults: it will sometimes get a little better by common means, but seldom remains so for many days together, and generally increases at the end of the month.—It often seems connected with the state of the bowels, and the coming on of a purging will frequently cure it.

I have nothing out of the common way to recommend for it;* nor does it need much to be done, unless it be unusually tedious; in which case, the parts behind the ears should be made sore, in the way I have before described, and be kept so for some time. Previous to this, it is often necessary to apply a blister to the back, and a leech to one or both temples; to keep the body open, and to make use of the cooling eyewater before recommended. If the child be inclined to a frequent return of it for years, as I have known in very healthy children, it will sometimes degenerate into what is termed the watery-eye; an excellent remedy for which is a grain of white vitriol, mixed

* For a more full account of the treatment of Opbtbalmias, See Surgical Tracis, 2nd Edition. Purulent Ophthalmy. 231

mixed with as much fresh butter as will form it into a liniment, which should be put into the inner angle of the eye every night, at going to bed. In some of these cases, however, the ointment of nitrated quicksilver has proved a more speedy remedy, and is a less painful application.

But there is a far more formidable inflammation, which has of late years been called the purulent ophthalmy, distinguished from every other, by the vast quantity of thick matter discharged, and great swelling of the lids.

This is so dangerous an inflammation as to require the best advice on its very first appearance. It frequently seizes an infant a few days after birth, without any previous complaint; and sometimes not only destroys the sight, but dissolves the eye itself, in less than a week's time. I have likewise seen it exceedingly violent in children of four or five years old, but rarely without some blow, or other accident.

In this disease, every thing that may remove inflammation, and unload the vessels of the part, should be immediately had recourse to. The body should, therefore, always be kept open, and if the child be two or three years of age, leeches should be applied to the temples: scarifications also of the *tunica conjunctiva*, (which generally falls out upon the opening of the lids); blisters U 2 to

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to the back, nape of the neck, and behind the ears, are sometimes essentially necessary. The edges of the eye-lids should be kept constantly greased throughout the day, especially in infants, that the thick matter may find an easy escape. At night, a little of Goulard's cerate may be spread on soft linen, and applied to the eye, and over it a very soft cold poultice, made with the compound water of acetated litharge, laid on as lightly as possible; that by its constant moisture, the eye-lids may always be kept supple. But if the discharge should seem to be confined, or the eye affected, by the weight of the poultice, this application should be changed for soft linen rags, which should be frequently wetted with cold brandy and water, or some yet more astringent lotion.

It should ever be remembered, that in the beginning of the complaint the taking away of blood is not often to be dispensed with, (unless the child be very young, or otherwise weak) nor to be sparingly done. The application of one leech, therefore, to the temple or neck, will have no good effect, though often repeated. Two, three, or even more, according to the age and strength of the child, should be put on at a time, and a blister soon afterwards; which will often do more to conquer the inflammation, than most Purulent Ophthalmy. 235

most other means put together, if had recourse to in time.

Throughout the complaint, astringent and stimulating applications are to be made use of, being not only far preferable to other means, butsonecessary, that should emollient poultices, and merely cooling collyria be, at any time, depended upon, the event were likely to be fatal. What may be the very best remedy, it may not be very easy to determine, having for some years succeeded, and in a reasonable time, by different means. But ever since I have seen Mr. Ware's excellent publication on diseases of the eyes, I have had so frequent recourse to the aqua campborata, as recommended by him, in this species of ophthalmy, and have succeeded so well with it, that I am not yet certain to whom the decided preference should be given.

One dram of the aqua camphorata of Bate's dispensatory, to two ounces of water, will be a sufficient strength to begin with. A few drops should be instilled into the eyes, several times in the day, as well as the lids, be frequently washed with it.

The topical remedies alluded to, in the place of the aqua camphorata, are tinct. opii, and the unguentum hydrargyri nitrati, which should be applied every night at going to rest; the former being dropped into the eye after the lids have been touched with the

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the ointment. It is sometimes proper to lower and soften the ointment with a little fresh butter, and to add a little camphor.

It has been said, that where this inflammation has not been properly treated from the beginning, the eye is sometimes exceed-ingly injured by it, so that even the eye will burst. At other times, the cornea becomes much thickened, and the pupilmore or less opake by means of one or more specks which the inflammation has occasioned. It should be remarked, however, that we sometimes meet with an agreeable surprize, at the decline of this formidable complaint, and find the eye much less injured than had been suspected at the time we were first able to get a sight of it. And at others, even where the cornea has burst, the aqueous humour has been restored, and being confined by the cicatrice, the patient has recovered his sight. On the other hand, the cornea has sometimes been so greatly injured, or the iris contracted, that though the eye has not been sunk, the sight could not be restored by any means.

From what I have known of some permanent inflamations, I have sometimes been much inclined to the opinion of the late Dr. Hunter and others, who after having tried a variety of means, and assisted in consultation with different physicians, have been induced

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induced to think, that many of the very stubborn ophthalmias originate from a venereal taint, and could only be successfully treated by its specific remedy, in one form or other. Every practitioner will be very careful how he takes up such an opinion in particular instances;* however, it is right to observe, that if none of the means above recommended should produce a favourable change in eight or ten weeks, I believe nothing but that specific species of alteratives will have any lasting effect.

Though it is not my design to treat on this disease, it may not be amiss to observe, that whenever a venereal taint actually exists, it is more safely treated by unction than in any other way; and infants would probably be cured much oftener than they are, if recourse were had to it in better time than it commonly is. If internal remedies, however, are for any reason preferred, I have found none so efficacious, convenient, and safe, as the late Mr. WARD's white drop.

LEUCOMA,

* The French physicians seem too much inclined to regard the purulent ophthalmy in this view, being a very common symptom, amongst others truly venereal, in many infants in the *Hotel Dieu*, *PHospice de Salpetriere, Vaugirard* and *des Infans trouves*; but when this species of ophthalmy appears alone, the cafe should not be hastily concluded to be venereal, however violent the ophthalmy may be. [236]

LEUCOMA, or SPECK of the EYE.

THIS is often a consequence of long con-This is often a consequence tinued ophthalmias, and is mentioned by Dr. Armstrong amongst the diseases of children, in his second edition. He directs a variety of things for the cure of it, which he says are often efficacious if the specks have been recently formed, but when of long standing, he has never seen any me-thod successful. I shall only observe, that in a very great number of cases, a drop or two of the aq. cupri ammon. instilled into the eye, two or three times a day, has removed such specks, in the course of a few months, and sometimes much sooner, without any other means. Should this fail, however, trial may be made of a solution of the hydrargyr. muriatus, one grain being put into four ounces of water; and the ointment of nitrated litharge be applied in the manner before recommended.

CATARACT and GUTTA SERENA.

A LTHOUGH these disorders are not very common in young children, they do, nevertheless, sometimes occur, and infants Cataract and Gutta Serena. 237

fants have been born with a *cataract* in one or both eyes, or totally deprived of sight by the *gutta serena*. I shall therefore speak of the two diseases together, and the rather because the same remedies are here accommodated to both.

It would, indeed, ill become a man of the least character and experience to affect to have much to offer in a way of remedy for these dreadful complaints; the oldest and best practioners never having pretended to be often, or by any means uniformly successful inthe treatment of them. From what I have known, however, they are not to be despaired of, and I should think it unpardonable not to hold out every occasion of good, or of comfort in my power, however little it may be, in cases wherein art has so generally failed—Valeat quantum valere potest.

Where a disposition to cataract and gutta serena have been suspected, I have known very considerable benefit obtained, and even the sight fully restored by an alterative plan of calomel and cicuta, or by the long continued use of an aromatic vapor with spirit. ammon. compos,* conveyed to the eyes by means of a tube properly adapted; or by brushing

* Half an ounce of the spirit with two ounces of water, should be kept boiling over a lamp, and be made use of two or three times a day.

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brushing the eyes and the adjacent parts, several times a day, with soft and smooth brushes, which are properly constructed by Mess. Ayliffe and Gee, in Wardour-street. In the gutta serena, electricity also has certainly succeeded in several cases; and in one instance, a lady whilst under such a course, suddenly recovered the perfect use of her eyes, through a blow she accidentally received on the face, which produced a copious hemorrhage from the nose. In imitation of this, the like discharge has been lately artificially procured by wounding the internal vessels of the nostrils; but without apparent good effect. To these brief observations I have only to add, that I have very lately seen a gentleman of near sixty years of age, for whom I had been consultedabout three years before, who sometime after having been let blood in the above mentioned way, and made trial of electricity without apparent advantage, has recovered from a gutta serena of near two years standing, under the use only of a common collyrium, which as I cannot conceive to have had any share in the cure, conspires with a few similar instances to hold out ground of encouragement to other sufferers, sufficient to prevent despair, under this melancholy disease.

I say nothing in relation to the cure of the cataract by a surgical operation, either

by

The Stithe, or Stye. 239

by extraction or depression, except it be, that neither of them is advisable for infants: unfortunately born with the disease, till they shall have attained to five or six years. of age.

The STITHE, or STYE.

THE stithe is a small inflamed tumor on the edge of the eye-lids, more commonly on the side towards the nose; but there are sometimes two or more at a time. It rises suddenly, as if from a cold or blast, and in the end suppurates, or forms matter, of a thick or cheesy consistence; often, indeed, not for several weeks, or even months, but sometimes much sooner. It is occasioned by an obstruction in the glands of the eye-lids; and the matter being enclosed in a hard cyst, or bag, the inflammation often returns in the same spot, till the cyst being destroyed by repeated suppurations, the cavity is afterwards filled up, and the complaint disappears.

All that is necessary to prevent the returns of this temporary blemish, which greatly weakens the eye, is to touch the little abscess, as soon as it breaks, with the caustic, called *argentum nitratum*, cut to a point, (carefully avoiding doing injury to the eye) which by destroying the cyst, at once removes the complaint.

Deafness.

When these stithes are small, or hang by a very narrow base, they may be safely cut off, or be tied very tight with a bit of silk, and afterwards touched with the caustic as before mentioned.

. DEAFNESS.

CHILDREN are frequently rendered deaf in different degrees, in one or both ears, by very slight colds, and at the expiration of a few days the hearing returns, without recourse to any means. It is, however, sometimes otherwise, and it becomes necessary to give a little purging physic, to keep the ears warm, and to confine the child to the house; and where this does not succeed, the complaint is not a little difficult of cure. Should it arise from indurated wax, it will be proper to syringe the ears with warm water, to which should be added a tea spoonful of lavender or honey-water; and a few drops of warmed oil of almonds may be instilled into the ears at going to bed. If these little means fail, warmer remedies should be made use of, such as the following, which I have found very frequently successful:

B. Olei amygd. 35s Ol. Succini rectific. gtt. xx Spir. Camphorat. 35s. Tinct. Castor. 3j misce et instill. guttas iv vel vj calefact. aur. affect. nocte et mane. Deafness,

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Canker of the Mouth. 241

Deafnefs, however, is fometimes owing to the want of a due fecretion of wax, and is then much more difficult of cure. To promote this fecretion a few drops of the foap-liniment, oil of almonds and æther, and fuch like warm acouffics should be tried, and continued for fome time, if they should not occasion much pain; and in all cafes, blifters may be applied behind the ears. The juice of onions, or a clove of garlic, raw, or roafted, put into the ears, has fometimes reftored the fecretion, and removed the deafnefs; and in many cafes it has been effected by electricity. But it not unfrequently happens, that the caufe of deafnefs lies in the auditory nerve, and in that cafe, if the laft-mentioned remedy fails, very little is to be expected from art. Nature, however, fometimes effects the cure, and children after having been deaf for feveral years, fuddenly recover their hearing perfectly, especially females .- Medicated fnuffs alfo that invoke gentle fneezing, and difcharges from the head, have fometimes been found furprifingly efficacious.

CANKER of the MOUTH.

THIS is chiefly a complaint of children, being rarely met with in adults, is often talked of by nurfes, and is ufually as trifling X as 242 Canker of the Mouth.

as any. It has, indeed, been faid by fome writers to prevail very much in *England* and *Ireland*, and to be often a ferious complaint. Such a diforder, if it be canker, may be treated as under the next article; but the common canker is rarely troublefome to eure, except it be amongft very poor people, where a great number of children are crouded together.

It fometimes makes its appearance in the month, at others, about the time of teething; and frequently at the age of fix or feven years, when children are fhedding their firft teeth, and the fecond are making their way through the gums, which are covered with little foul fores, and will tometimes extend to the infide of the lips and the cheeks. It feldom requires more attention than was mentioned under the article of dentition, any mild aftringent application, and keeping the body open, ufually effecting a cure; or if it does not, and the complaint makes its appearance at the time of teething, it will generally go away as foon as the teeth are come through.

The worft fpecies of this complaint that I have happened to fee, has been during the fecond period of dentition, when a child has been fhedding a number of teeth together, and the rotten flumps have been neglected to be drawn out. The whole gums will then fometimes be fpongy, or diffolve Canker of the Mouth. 243

folve into foul, fpreading fores, and fmall apertures will be formed, communicating from one part to another, accompanied with an oozing of a fetid, and fometimes purulent difcharge.

If the flumps of the decayed teeth can, in this cafe, be eafily got at, they ought to be extracted; after which fome fuch application as the following will foon brace the loofe gums, and heal up the ulcers.

R. Bol. Armen. Sang. Draconis, Gum. Myrrh. Cort. Peruv. pulv. fubtil. Cremor. Tartari āā zj Mel. Rofæ q. f. mifce, ft. Pasta.
R. Aq. Calcis Zvij Tinct. Myrrhæ, Mel. Rofæ āā žfs. ft. Mixtura.

The gums fhould be touched feveral times in the day, efpecially after meals, and at going to bed, with the above pafte, and the mouth be wafhed occafionally with the mixture.

If no confiderable change for the better fhould take place, in a week or ten days, a dram of alum may be fubfituted in the place of one of the drying powders, and inftead of the above mixture, one acidulated with as much of the muriatic acid as the parts will endure, occafionally made ftronger, till fome amendment be perceived; the belly being, in the mean time, kept properly open. If internal remedies be thought X 2 neceffary;

244 Gangrenous Erofion, &c.

neceffary; Peruvian bark, farfaparilla, and mineral acids are the propereft; and the child may be kept on a diet of milk and vegetables.

GANGRENOUS EROSION of the CHEEKS.

THIS complaint refembles the canker more than any other diforder, though it is much more dangerous, and is not a mere local difeafe. I have feen no clear account of it in any late writer but Mr. Deafe of Dublin, who feems to have met with the diforder pretty frequently, and deferibes it very accurately in his tract on the difeafes of Lying-in Women, &c. to which I am very much indebted on this occafion.

It appears to attack children from two, to fix or eight years of age; ufually unhealthy children, and fuch as have been fubject to worms. The whole body often feels cold on the approach of the difeafe; after which a black fpot appears on one of the cheeks or lips, and fpreads faft; but without any appearance of inflammation. Oftentimes the whole fide of the face is eaten away, together with the lip, fo that the bare jaw-bone and infide of the mouth appear. In the end, the intire lower-jaw falls down on the breaft, and the whole fide of the face is diffolved into a putrid mafs; Gangrenous Erofion, Sc. 245

mass; a colliquative diarrhœa taking place from the offensive matter that is continually fwallowed, especially by very young children.

In the cure, internal as well as external remedies are required, and only fuch as correct putrescency, and support the strength, appear to be of any use. A few drops of the muriatic acid, therefore, taken inwardly, in an infusion of red rose leaves, or in the child's drinks; the faline draught in effervescence; and in the end, the bark, in dofes fuited to the age, with good broths, jellies and wine, are the proper remedies. The parts should be washed, and likewife injected with the muriatic acid in cammomile, or fage tea, and afterwards dreffed with the acid mixed with honey of rofes, and over all a carrot-poultice. The child fhould in the mean time be gently purged with magnefia or rhubarb, to carry down the putrid matters it may have fwallowed. By this treatment Mr. Deafe informs us he has recovered every patient except one, fince he had recourfe to this plan, which the world is much indebted to him for making public; though fortunately this dreadful complaint does not appear to be, by any means, a common one.

PSOAS,

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PSOAS, or LUMBER-ABSCESS.

FREQUENTLY as this diforder takes place in adults, it is as often met with in younger fubjects, and even fuch as are only four or five years of age; and muft therefore be ranked among the difeafes of childhood.

It is a true chronic, or flow inflammation, and is often occafioned by bruifes, ftrains, or lying on damp ground ; and is not uncommonly connected with a fcrofulous taint of - the habit. The inflammatory fymptoms being rarely fevere, fuppuration takes place flowly, and many months elapfe before the matter can be felt externally; which fometimes points up high about the loins, hip, or groin, and at others, above the middle and on the infide of the thigh : In the moft benign, the abfcefs frequently burfts in the groin. It is, in any cafe, a very dreadful difeafe, and is briefly noticed here, only for the fake of warning parents of the danger of fo infidious a complaint, and marking the outlines of a practice which feems to have proved the oftenest fuccessful.

The first indication is to procure a refolution, if possible, upon the approach of the first fymptoms, such as pain in the loins, difficulty of standing upright, and a painful Psoas, or Lumbar-Abscess. 247

ful fenfe of contraction of the limb, and before those of a hectical nature supervene; but unfortunately, the above symptoms are too often over-looked, or mistaken in the beginning.

With a view to a refolution of the inflammation, recourfe fhould be had to bleeding by leeches, and cupping, and by blifters applied near the feat of the pain; by purging; a fupine polture, and low diet; and fometimes a cauftic near the lumbar vertebræ.

Should thefe means fail, or advice be fought for too late to expect any thing from them, of no lefs confequence is the treatment after the matter is formed; which fhould be evacuated, by an artificial opening, as early as poffible, and by a very fmall aperture. Soon after this, the diet should be changed for one more cordial, and nourifhing; and the bark, fteel or vitriol fhould be administered, and the patient enjoy a pure air, and take fuch gentle exercife as his fituation may admit of without an increafe of pain .- The abfcefs should be dreffed fuperficially; and reftringent, or other injections be made use of, among which, perhaps, fea-water is one of the beft.

A very fimilar, and equally dangrous difeafe is the Morbus Coxaris, or abfcefs of the Hip-joint : the fymptoms and treatment

White Swellings.

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of which fo much refemble those directed for the Lumbar-abscefs, that it were needless, in a work of this kind, to do more than barely mention the disease.

WHITE SWELLING of the JOINTS.

I SHALL be equally brief alfo on this ar-ticle, my attention being only to mention from experience a few remedies for this dangerous complaint, that have been found fuccefsful, in young fubjects, if had recourfe to in good time, and before any matter has been formed. Such are, the repeated application of eight or more leeches, and afterwards fmall blifters to the joint; gentle frictions of the part; two or three vomits a week, with entire rest of the limb; and in the end, fea-bathing, efpeci-ally if the patient be of a fcrofulous habit. In a few inftances, electricity has had an immediate, and wonderfully good effect, even where the joint has been confiderably enlarged, the pain very great, and the child incapable of ftraightning the limb.

PALSY of the Lower Extremties with CURVATURE of the SPINE.

THIS complaint has been of late years fo thoroughly announced, that it fhould feem unneceffary to enter into a minute detail of it after the accurate defcription given by Mr. Pott, whofe early account and judicious treatment of this dreadful difeafe has added luftre to the reputation acquired by his former publications.

It will be proper, however, carefully to diffinguifh it from the fimple curvature of the fpine, in which a greater number of vertebræ is concerned, and the legs are not peculiarly affected; as well as from a complaint prefently to be noticed, under the name of debility of the lower extremities, in which there is no manifest change of figure in the fpine.

The palfy of the lower extremities is certainly confined to no age, and being at firft very frequently miltaken in young children for the trifling effect of fome fall or ftrain, is intitled to notice in this work. I have never met with it, indeed, where it has not been preceded by fome fall or violent exertion, though as Mr. Pott has obferved, fuch fuppofed accidents are feldom much noticed previous to the debility taking place: 250 Palfy of the Lower Extremities,

but this is not univerfally the cafe; though it is, indeed, probable, there may be fome predifpofing caufe, without which no common ftrain would induce fo much mifchief in a part continually difpofed to accidents. The Curvature is generally in the neck

or back, though fometimes in the upper part of the loins, and varies in extent and degree according to the number of the vertebræ that may be affected. The first fymptom noticed by children of an age capable of expressing their feelings, is an increased fenfibility, and irregular twitchings in the muscles of the the thighs. This is fucceeded by a diflike to motion, especially to moving briskly; the patient on fuch occasions finding himfelf likely to fall, his legs getting entangled through their weaknefs, and a difpolition to crofs each other, in his at-tempts to ftep forward. Soon after this, perceives himfelf unable to ftand upright long together, and that the legs and thighs have loft much of their natural fenfibility. Matters feldom continue long in this flate, and weaknefs increasing, patients lofe more and more the use of both the lower extremities, till fome are unable to move them at all even in bed; and thefe advances of the difeafe are faid to be more rapid in adults than in infants. In the latter, I have particularly remarked that rigidity of the ankles noticed by Mr. Pott, by which the toes with Curvature of the Spine. 251

toes are pointed downwards, fo that the heels cannot be brought to touch the ground.

As my intention is only briefly to point out the difeafe, and the propereft means of relief, it is not of importance to enter into a farther detail of the progrefs of this diforder, and of other complaints which are induced by it whenever the original difeafe has been long neglected.

The obvious remedy is that first happily fuggested by Mr. Pott, and confists only of a large issue or feton to be made on each fide the curve, at fuch a diftance as may prevent their burfting into one. Where the curvature comprehends three or more vertebræ, or joints, the feton may be preferable to an iffue, but if the latter be on any account elected, I should advise its being made by the knife rather than a cauftic; not only as being lefs painful, but alfo for the very effect Mr. Pott has difapproved of, I mean, the confequent inflamination before there has been time for fuppuration to take place. It may, indeed, be doubted, whether the benefit derived from the iffue may not arife rather from the inflammation and ftimulus produced on the surface, than from the difcharge, to which, neverthelefs, Mr. Pott folely attributes the cure *. In a recent cafe.

* It has been a common idea, that the difcharge furnished by an ulcerated furface is the fource of all the 252 Palfy of the Lower Extremities

cafe, however, and a very unpromifing one, in an infant about ten months old, a very fenfible relief was afforded as foon as the inflammation took place, and before any fuppuration appeared; and though the child had been many months a cripple, with lofs of health and appetite, unable to fupport its head, and the *fternum* very much diftorted, the relief was fo great in one week after

the benefit that may be derived from abfceffes, unlefs bliftered furfaces be an exception; in regard to which, physicians have usually confidered the fimulus produced by the cantharides as the chief mean of benefit, especially in cases of great local pain and inflammation. It is, indeed, matter of fome furprize, that thinking men have not more generally adopted the like idea in regard to other inflamed furfaces, whether induced by natural or artificial means. It should furely feem, that that state of the fystem, or of the parts, by which supportion is induced, is more likely to be the occasion of benefit, than the difcharge of a large portion of the richeft animal juices, which is but the confequence of the other. Thus, in most critical absceffes, the fever is found to abate as foon as the external inflammation takes place, and the patient inftead of being afterwards benefited by a copious difcharge, is not unfrequently hurried by it into a fatal marafmus, when the abscess has been large, or improperly feated. There may be other instances, indeed, in which the fuppuration, and even the great quantity of the discharge, may be beneficial to the fystem ; but it is probable, that this is not in general the cafe, and much lefs in the present instance, which is attended with fymptoms of general debility. 3

with Curvature of the Spine. 253

after the incifions were made, as left no room to doubt of a perfect recovery ; which accordingly took place very foon, without any deformity remaining. Had Mr. Pott advanced any other reasons for the preference, givento the caustic, or merely affected such preference, I should readily have submitted to the great experience he has had in this dreadful complaint; but though I may very poffibly be mistaken in my reasoning, it appeared a duty just to state it, as well as to no-tice this instance in point in a difease of so much importance : hoping at the fame time, that the defire Mr. Pott has expressed of ferving the public, and the fatisfaction he has received from the benefit attending the early publication of fo valuable a remedy, will induce him to apologize for any attempt to extend, or illustrate its utility.

The iffues fhould be kept open till the patient perfectly recovers the ufe of his legs, or even a while longer, at leaft one iffue, which ought not to be dried up till the patient can walk firmly alone, and fhall have recovered all the height which he may have loft in confequence of that flooping which the diforder had induced.

In addition to the ufe of thefe means Mr. Pott has fuggested those of cold-bathing, frictions, and the bark, or such like; but I have myself never seen any benefit from any thing where the issues have failed, which I

have

have found efficacious where no other remedy had been made ufe of. After the recovery, however, if the patient be of a fcrofulous habit, fea-bathing is peculiarly indicated.

The moxa has been fuccefsfully made ufe of in one inftance, by Mr. Gimès, * after the cauftic, as directed by Mr. Pott, is faid to have failed. But as the burning was feveral times repeated, and the recovery appears to have been unufually flow, it is not very certain, but a repetition of the cauflic might have proved equally beneficial.

DEBILITY of the Lower Extremities.

THE diforder intended here is not noticed by any medical writer within the compafs of my reading, or is not fo defcribed as to afcertain the difeafe. It is not a common diforder, I believe, and feems to occur feldomer in *London* than in fome other parts. Nor am I enough acquainted with it to be fully fatisfied, either in regard to the true caufe, or feat of the difeafe, either from my own obfervation, or that of others; and I have myfelf never had opportunity of examining the body of any child who has died of this complaint. I fhall therefore only

* Jour. de Med. Fev. 1788.

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only defcribe its fymptoms, and mention the feveral means attempted for its cure, in order to induce other practitioners to pay attention to it.

It feems to arife from debility, and ufually attacks children previoufly reduced by fever; feldom those under one, or more than four or five years old. It is a chronical complaint, and not attended with any ' affection of the urinary bladder, nor with pain, fever, nor any manifest difease; fo that the first thing observed is a debility of the lower extremities, which gradually become more infirm, and after a few weeks are unable to fupport the body. There are no figns of worms, or other foulnefs of the bowels; therefore mercurial purges have not been of any use, neither has the bark, nor hot, nor cold-bathing. Blifters, or cauftics on the os facrum, and the great trochanter, and volatile and stimulating applications to the legs and thighs, have been chiefly depended upon ; though there is no appearance of an enlargement of any of the vertebræ, or joints of the back, nor of fuppuration in the external parts, and therefore no refemblance to the inflammation of the intervertebral cartilages, the ploas ablcefs, or the morbus coxaris of De Haen.

When only one of the lower extremities has been affected, the above means, in two inflances out of five or fix, entirely remov-

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ed the complaint : but when both have been paralytic, nothing has feemed to do any good but irons to the legs, for the support of the limbs, and enabling the patient to walk. At the end of four or five years, fome have by this means got better, in proportion as they have acquired general ftrength : but even fome of these have been disposed to fall afterwards into pulmonary confumption, where the debility has not been entirely removed. On this account it may be fuspected, that the complaint is fometimes owing to fcrofula; and I have been very lately informed by a gentleman of character, that he has feen one inftance of a paralysis, or debility of this kind, in which, upon opening the body after death, the internal furface of the lower vertebra lumborum was found carious, though there was no abfcefs of the pfoas mufcle, nor external tumor on the back, or loins.

I have feen a fimilar debility feize grown people, efpecially women, after fome very long illnefs, and has continued a year, or more; during which time they were utterly incapable of walking without the help of crutches. Thefe cafes, however, have always been attended with great pain in the commencement of the complaint, though without tumour of the limbs; and have feemed to be benefited by the external ufe of the waters at *Batb*.

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CURVATURE of the BONES from WEAKNESS.

CROOKEDNESS of the bones, particuticularly those of the lower extremities, has been mentioned as a common confequence of rickets, and may claim a transitory notice in this work.

The principal inquiry in the treatment of deformities of this kind, respects the use of irons for the fupport of the limbs, whenever the diffortion happens to be confiderable. The propriety of this affiftance has, indeed, been doubted by fome practitioners, as well as their unpleafant appearance been objected to by parents; who have therefore been inclined rather to truft only to cold-bathing. Friend, however, as I am to the latter, I may venture to fay from experience, that it is likely to be prejudicial at the time it is often had recourfe to; for by ftrengthening the fystem, it rather ferves to confirm the crookednels which the bones have already contracted. It is an advantage, on the other hand, that the bones remain foft and yielding as long as the curvature is confiderable, if fo be the preffure of the fuperior parts be at the fame time duly counteracted. To fupport the limbs, therefore, with irons, as long as the foftnefs of the bones disposes them to yield under

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der the weight of the body, is certainly a rational intention, and has been very beneficial in numberlefs inflances. This end obtained, the bones being ftill lengthening as the child grows up, they naturally incline to become ftraight, and at this time the cold-bath and other tonics are properly indicated, and will co-operate to the cure of the complaint. The only care required, is, that the irons be made as light as poffible, and be properly adapted, and that they be lengthened as often as may be neceffary.

When a curvature takes place in the fpine (without any difeafe of the *vertebræ* or cartilages) the like method fhould be taken. Proper inftruments to fupport the head and upper parts of the body have been contrived by different artifts, but those made by Mr. Jones appear to be the best.

Should the bones of the arm be curved, either by accident or difeafe, in this foft ftate, rollers and pafteboard fplints properly applied, will be fufficient to fupport, and reftore them to their natural form.

But if the injury extend to the hip and contiguous bones, it will not be manifelt at the time, and can be benefited only by the cold-bath, and other general remedies. If this diffortion fhould be confiderable, it may, indeed, become a fource of manifold evils in females, as will be noticed in another place.

PARONYCHIA, OF WHITLOW.

M ANY young people are very fubject to a mild fpecies of this complaint, which being perfectly fuperficial, is not improperly termed the *cutaneous*^{*} whitlow, and will attack the ends of the fingers, feveral times in a year, without any previous injury of the part. The fubject is therefore introduced here only with the defign of recommending a prophylactic, or mean of prevention, which I have frequently feen fuccefsful. This confifts only in bathing the fingers, feveral times a day, in the following mixture, the moment that a fenfe of any preternatural heat, or pain, may be felt.

Take of Camphorated fpirit, four ounces, Water of acetated Litharge, two drams, Tincture of opium, half an ounce. Mix them.

In the malignant, or deep feated whitlow, doubtlefs, the best method is to make an early opening down to the bone, which will occasion the patient much lefs pain than fuffering the matter to make its own way to

* See Principles of Surgery, by Mr. Pearfon.

Furunculus or Boil.

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to the furface; which is likewife always attended with much mifchief to the part.

FURUNCULUS OF BOIL.

T HE common Boil only is intended here, and is noticed from its frequency in young people towards the time of puberty, who are fometimes vexed with a fuc-ceffion of them. They are, however, juft-ly accounted falutary, and do harm only when repelled, or haftily dried up. If a poultice of bread and milk, therefore, be applied from the first (if the boil be in a convenient part, otherwife a gum-plaister) and a bit of yellow or black bafilicon put every day into the hollow, as foon as the boil breaks, it will be properly digefted, and the core, as it is called, be brought out. It is fometimes for the want of this, that another boil forms in the neighbouring parts, or the child is teazed with fore eyes, or fome humor, as it is termed, on the fkin.

Two orthree doses of purging physic should be taken as the boil is healed.

CHILBLAINS.

THIS is a complaint fo well known, that it can need no defeription. It is generally owing to the circulation of the blood Chilblains.

in the minute veffels of the extremities being checked, by a child having been long exposed to cold or wet, and afterwards running to the fire instead of recovering the natural heat by exercife. If the injury be exceedingly great, as it fometimes is when a perfon has lain for feveral hours in the fnow, the circulation cannot always be restored, and some parts actually mortify. To prevent this, if possible, instead of bringing the perfor near a fire, he fhould be immediately ftripped, and well rubbed all over, efpecially the parts most af-fected, with fnow, and afterwards with falt and water, and be then put into bed. But I speak chiefly of flighter attacks; on the first appearance of which, known by the heat, itching, rednefs, and fwelling of the heels, toes or fingers, country people apply warm wood-afhes between cloths, or rub the parts with mustard and brandy, which if done in time will both prevent their breaking into fores, and entirely remove the complaint. For the like purpofe, rubbing the parts with a foft brush, or foaking them in warm water in which a hot poker has been two or three times quenched, and afterwards rubbing them with foap, or falt and onions, are good remedies; or embrocating them with the foap liniment, or with camphorated spirit, to two ounces of which may be added a tea-fpoonful of the water of acetated

Chilblains.

acetated litharge. But I have lately experienced the good effects of a far fimpler means than any of thefe, and which I have hitherto never found equalled by any of the warmer remedies; and is nothing more than the ceratum album fpread on a large piece of thick, doubled lint to be applied as foon as the extremeties begin to itch, or be painful.

Some children are difpofed to have chilblains every winter; as a prefervative a-gainst which, if it be the hands that are liable to affected, warm leather gloves should be worn, (avoiding woollen, which in thefe cafes is unfriendly to the skin) and above all, wearing for a few hours in the day or night, and efpecially when abroad in the cold, oiled filk gloves, which is the best preventative both of chilblains and of chopped hands, that has been hitherto known. But if the feet are usually the affected parts, the heels only may be covered by a piece of washingleather, fecured round the infteps, and worn day and night during the cold months; and should be taken off only for the purpofe of rubbing the parts with the brush or liniments, as mentioned above.

When the fwellings are broken, it is common to drefs the fores only with a little cerate, and to wait for the return of warm weather, when they ufually heal of themfelves; but by this means, they often remain main bad through all the winter, and when large, are fometimes not well till the fummer is very far advanced; and I have even feen them remain very bad in grown people, at the end of September.

After having attended great numbers in this complaint, I am fatisfied that this kind of fore requires applications fomewhat more invigorating, being a species of mortification; and though it will not always endure very warm digeflives like many other ulcers, yet when the chilblains are pretty large, a portion of fome digeftive joined with the cerate, is very friendly to them. And I have known fome fores, though very finall, remain long in a very obftinate and tedious flate after the breaking up of a hard froft, whilft they have been dreffed only with cerate, or other mild, or drying applications, as they are called, and begin to heal immediately upon adding a fmall portion of fome warm digeftive, and applying a flannel roller, without any other alteration in the plan. But if they are fpread to any confiderable fize, nothing contributes fo much to their healing, as touching the fores every day with bracing and invigorating lotions, particularly diluted folutions of fteel, or tincture of myrrhe ; which in a very few days will produce kindly granulations in thefe, and other cold fores, though of long ftanding.

When

Burns and Scalds.

When the parts are much fwollen, and the fores been long foul, it will be often neceffary in fevere weather, to make use of poultices, of which, those made of rye-meal and the compound water of acetated litharge are more active, and therefore preferable to mere bread and milk. If these are applied over the above dreffing of cerate and digeftive, and changed twice a day, the fores will heal in much lefs time than by any of the common applications I have feen ufed; efpecially if the parts furrounding the fore be well rubbed with camphorated spirit. If children are not very young, purging them with a little calomel twice a week, will often expedite the healing of the fores : in the worft cafes, a decoction of the bark is required.

Since this work has been in hand, I have learned the good effects of electricity in chilblains, both as a remedy and a prophylactic, or preventative, cfpecially in very old people, to whom they not unfrequently happen.

BURNS and SCALDS.

BURNS are mentioned by fome old writers, and though a misfortune by no means confined to young people, they too often fall to the lot of infants, through the 3 careleffnes

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carclefsnefs of their attendants; and for want of being properly treated at the inftant, children often fuffer exceedingly, when a fit application would have rendered the injury trifling.

When fuch an accident happens, the neareft aftringent at hand fhould be made ufe of, fuch as brandy, or other fpirit, ink, wine, or even cold water, till fomething more proper can be procured; into which the injured part fhould be plunged, or be covered with pieces of cloth dipped in fuch liquors, which will prevent the bliftering of the part; carefully avoiding the ufe of oliveoil, too frequently had recourfe to. As foon as it is poffible to fend to an apothecary, the following fhould be procured, and ufed in like manner.

Lime-water, a pint, brandy, two ounces, water of acetated litharge, half an ounce.

If the injury has been too long received to admit of much relief by thefe means, and deep floughs are actually formed, a very proper dreffing may be made of equal parts of Turner's cerate, and green ointment of elder; diminishing the proportion of the latter as the floughs are thrown off, and the fores become disposed to heal. But should the injured furface be large, or the pain, occasioned by removing the dreffings, be very great, it will be fufficient to cover the parts with pieces of linen dipped in cold-drawn **Z** linfeed. 2.66

linfeed-oil, which fhould be moiftened every day, and fuffered to adhere till the fores are in a flare to admit of being dreffed in a common way.

A ftrong folution of foap in water has long been in use with artificers, employed in any bufinefs expofing workmen to very bad fcalds; and is a very excellent remedy-About three quarters of an ounce of foft foap is a proper quantity for a pint of water. But the foap takes fome time in diffolving, and as it requires a certain proportion of boiling water, the lotion cannot be made cool enough for immediate use by the addition of the proper quantity of cold water. A remedy, therefore, more convenient, and perhaps more efficacious, which if not always in the houfe, may in every large town be fpeedily procured, may be made of olive-oil, cold water and ley of kali. Six ounces* of oil to ten of water, with two dramst of the ley will make a pint .-- This quantity may be fufficient for a burn on the hand or foot, which is to be immerfed, and kept about half an hour in the liquor, which will remove the injury if had recourfe to immediately; but must be repeated, as the pain may require, if the fcald or burn be of fome standing. Should a perfon be scalded all over

Two table fpoonsful contain about an ounce.
 A tea-fpoonful contains about a dram.

Luxations and Fractures.

over, and be immediately put up to the chin in a cold bath of this kind, and the head at the fame time, be frequently immerged, or well washed with the liquor, very little injury would enfue.—Whatever fores may be formed, should be treated afterwards according to the foregoing directions.

LUXATIONS and FRACTURES.

TNFANTS are not only liable to thefe # misfortunes by a fall from the lap, but the bones or joints may be fometimes unavoidably injured in the birth. There is in this cafe, feldom any luxation, I believe, but of the fhoulders, which is not difficult to be reduced, and requires nothing afterwards, but that the limb be kept perfectly quiet. Fractures, indeed, are not quite fo eafily managed, and perhaps happen more frequently. The bones are yet but little more than griftle, and if strained beyond a certain degree, are eafily bent, or even broken. The former is very readily reftored, but I shall be more particular on the latter, as the fubject is of some importance.

Fractures in the birth are ufually of the collar-bone, the arm, or the leg, the treatment of the two former of which, will include all that is neceffary to be observed of fuch as may happen in other parts.

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The first, however, requires very little attention, as it will be neceffary only to draw the shoulders back, confining them in that posture, by two or three pins in the clothes, and to apply a piece of adhesive, or of the soap-plaister, spread on leather, upon the rising end of the bone, and a larger piece over the first.

A fracture of the arm demands a little more attention, but will always end perfectly well. The difficulty confifts in keeping the fractured ends of the bones opposed to each other, without rolling up the arm fo light as to occafion pain, or much fwelling of the hand, which in a new-born infant, a very fmall preffure will effect. I have found no method fo well adapted as the following, which allowing of a little tumor about the fractured part, without the necessity of loofening the roller, preferves the ends of the bones in due contact, without drawing the roller fo tight as to prevent the free return of blood from the inferior parts of the limb.

To this end, three little fplints, about half an inch in width, and an inch and a half long, may be made of fine linen cloth, five or fix times folded together, to the thicknefs of common pafteboard; and being foaked in a mixture of flour and white of egg, fhould be placed in the ufual manner, along the fractured ends of the bone. Being applied wet,

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Fractures.

wet, they will accommodate themfelves exactly to the figure of the limb, and when become dry, will be fufficiently ftrong to fup-port the bones. They should be applied immediately on the skin, without the intervention of a roller, by which means, when the parts fwell, which they should always do a little, there will be fpace enough between them to allow of it, notwithstanding the preffure from the roller, which should be applied over them. This ought to be of very fine flannel, and fhould not be drawn near fo tight as for adults, nor will there be occasion for it, as the chief dependance ought to be on fastening the arm down close to the fide, by ftrong pins fixed into the little gown, in the manner the furgeon may best contrive at the time. The gown, therefore, ought not to be changed, nor the arm moved but in his prefence; and if the hand is not inflamed, nor very much fwelled, and the child is eafy, the part will not need to be opened under eight or ten days. Till this time, the fame gown should be worn, and be preferved clean by fuch coverings as may eafily be removed. The fpeedy union of the bones will depend upon a strict attention to keeping the limb as ftill as possible; and if it be fo preferved, the accident will afford very little trouble after the first ten or twelve days, and at the month's end, the Z 3 child

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Cutting the Tongue.

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child will move that arm nearly as well as the other.

It is very common for nurfes, especially during the month, to fupport the lowerjaw of an infant whenever it happens to yawn, in the apprehension the jaw might, otherwife, be diflocated. This practice is, at least, an evidence of the nurses attention, and can do no harm, though I have, indeed, never known the accident happen. Should it, however, take place, either at this age, or in older children through fome violence, it will occasion a very awkward appearance, and prove very diffreffing to the child, who will be difabled from taking any nourishment till the luxation be reduced. Nothing more, however, is required to this end, than to place the thumb of each hand in the back part of the mouth, and the fingers on the outfide, under the jaw, fo as to deprefs, and at the fame time bring it a little forward, to difengage the head of the condyle, and then force the jaw fuddenly back.

On CUTTING the TONGUE.

THE directions on this head, as well as the notice taken of many of the following little diforders, proceed rather from a defire that nothing on the fubject of children's Cutting the Tongue.

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dren's complaints should be omitted, than from their real importance. Some of them, indeed, have been entirely overlooked by preceding writers, and though they may feldom require much attention, it may fometimes be of advantage to know what has been ferviceable in fimilar cafes.—The instance under confideration, however, is too trifling a matter to dwell upon.-It will be fufficient to observe that the little operation, performed in order to lengthen the tongue, is very frequently called for where there is no absolute occasion for it, the confinement being feldom fo confiderable as to make it really neceffary to divide the franum, or little bridle, that adheres to the under part of the tongue. The child will fuffer fo very little, however, in the operation, that when it is carefully done, it will be attended with no inconvenience; and if it can afford the mother any fatisfaction, it will be very proper to comply with her request. It feems therefore only necessary to add, that fome little care and steadiness are required, or the fublingual veins may be wounded, and in confequence an infant may lofe its life. To avoid this danger, the bridle may be divided by a fmall curved biftoury, instead of sciffars. The handle and blade, when open, need not exceed two inches in length; and the point should be a little curved, and the back made broad, whereby

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whereby the point may be eafily forced through the franum in the most troublefome cafe, whilft the back of the inftrument will fufficiently prefs down the veins, fo as to be entirely out of the way of being injured. Thefe cautions have been judged by fome people to be very triffing; but befides that infants have actually bled to death, the following equally fatal accident has arifen from cutting too deep, which I fhall therefore notice in this edition, as well as deferibe an inftrument contrived for fupprefling the bleeding.

SUFFOCATION from SWALLOWING the POINT of the TONGUE.

THE occasion of this accident has been mentioned: it is therefore only neceffary here to notice the fymptoms and remedy. The former are those usually attending ftrangulation, and come on fuddenly, and without any probable cause but that of the tongue having been cut; but to which they are feldom attributed by those, who are ftrangers to the complaint. The infant appears greatly agitated; the face-turns black; and unless these fymptoms foon difapear, the child goes off in a convulsion. But if they are prefently removed, the infant is as fuddenly Suffocation from Swallowing, Sc. 273

denly well; but they generally return again, and have in feveral inftances proved fatal.

Mr. Petit * has perhaps the credit of difcovering the true caufe of the complaint. The remedy confifts in nothing more than bringing the tongue into its proper place, and if the infant be fuckled, putting it immediately to the the breaft, which will give the tongue a natural direction. Should the child be brought up by hand, the tongue fhould be watched for fome time, at leaft till the bleeding fhall be ftopped; the complaint taking place only in confequence of that being confiderable, fo as to become an inducement to the infant to continue fucking at the part.

When the fublingual veins are actually wounded, the danger, it has been faid, is confiderable; and it is to Mr. Petit that we are again indebted for the beft contrivance for fupprefing this hemorrhage. The means confift only of a piece of ivory, in the form of a fhort fork; the prongs of which fhould be fo placed as to prefs against the apertures in the veins, and the other end against the infide of the lower jaw, and fhould therefore be broad and convex in that part, that it may keep its place.

Ниссоиси.

* Memoirs de L'Academie des Sciences.

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Ниссоисн.

T HIS has been ranked among children's difeafes, but it is, by no means, a complaint of confequence, as it fometimes is in adults. It occurs pretty commonly, indeed, in infancy, but feldom requires much attention, as it frequently comes on only after over-feeding, or in confequence of the overthicknefs, or fweetnefs of the food, and is one of their moft harmlefs confequences. But when it depends on an acid ftate of the juices of the ftomach, or occurs in long bowel complaints, it indicates a neceffity for having recourfe to the abforbent powders.

SNEEZING.

THIS has likewife been mentioned by fome writers as a complaint of young children, for which Rhazes preferibes refrigerants and anodynes, but it is certainly not a common one, and indeed I have never met with it, in the form of a difeafe. It may be occafioned by looking too long againft a ftrong light, as the fire, and efpecially the fun, or other very luminous body. It has already been fpoken of as a well known Bleeding of the Nofe.

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known fymptom of the meafles, and of many common colds, but in neither, I believe, requires any particular attention. It is mentioned here, only becaufe I would not pafs over a complaint that has been attended to by any writer of reputation, nor leave fuch readers at a los, who being unacquainted with the diffinction between mere fymptoms and difeafes, might at any time be needlefly alarmed by it. But knowing nothing farther of it myfelf, and having no idea of its being a complaint of much confequence in this country, I have not chosen under such circumstances, to be a mere copyer from others. It may, however, in conjunction with other caufes, give rife to the following complaint in older children.

BLEEDING of the Nose.

I MEET with this complaint alfo amongft old writers, and therefore beftow a few words upon it, though it is not often of much confequence, I believe, before the age of puberty.

If a child be feverifh, or otherwife unwell, the hemorrhage is often a mere fymptom arifing from the complaint under which it labours, and will difappear upon that being properly treated. But a bleeding at the nofe fometimes takes place in the healthieft children.

Bleeding of the Nofe.

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children, the veffels of this part being weaker than those which are covered by the true skin, and often afford a falutary outlet, in cafe of plethora, or fulnefs of blood, and therefore usually contract when the intention of nature is answered; after which, a dofe or two of cooling phyfic fhould be giv-en. But it may be fometimes neceffary to draw a little cold water up the nofe, to which fome vinegar may be added, and to apply fome thing cold to the upper part of the back. Should thefe little remedies fail, the head may be bathed with cold vinegar and water, and the noftrils be ftopped up with doffils of lint, which on urgent occasions must be dipped in warmed oil of turpentine, or other flyptic liquor, and must extend to the posterior aperture. The last means will almost always succeed; but if otherwise, fome blood should be taken from the arm, if the pulfe does not forbid, the feet be bathed in warm water, and the body be kept open by manna, and cream of tartar, and the patient should live for a little time pretty much upon whey, vegetables and milk; at least, he should not dine wholly upon animal food—The bark will in some instances be proper.

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HEMORRHAGE from the NAVEL.

I HAVE two or three times feen a complaint at the navel of new-born infants, which is fcarcely worthy of mention, but from its being an uncommon one. This is an oozing of blood from the part, after an unkindly feparation of the chord, and is owing to the fhooting up of a foft fungus, which prevents the skin from covering the divided veffels in the manner it otherwife does. This hemorrhage has fometimes continued for feveral months, and in fome instances, in fuch quantity as to prove alarming to the friends of the child, left it in the end be injurious to its health. The little veffel from whence the blood iffues, lies always fo deep that it cannot be fecured by ligature, nor be conveniently cauterized; the latter of which, indeed, would be very difagreeable. I have conveyed the lunar cauftic, however, to the part, but the bleeding has always returned. Nothing farther is neceffary, than to adapt a proper compress, and fecure it by a flicking plaifter and bandage; which should be continued for two or three weeks.

There is indeed another kind of hemorrhage of more importance, but this feems to be fympathetic, and is attendant upon infants who are in a bad flate of health dur-

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ing the month, and is, perhaps, a bad fign. It takes place where the chord has been apparently well healed; but the fkin afterwards gives way, and the bleeding is much more confiderable than in the former. It requires, however, nothing more than the application of common flyptics, with proper comprefs and bandage. The bleeding not appearing, in the leaft, to be critical, ought to be fuppreffed as foon as may be, and whatever complaint the infant may labour under, be treated according to its kind.

HERNIÆ, OF RUPTURES.

R UPTURES may take place in different parts, but they ufually appear at the navel, or the groin. The former is fometimes complicated with the ventral hernia near the part, and is occafioned by the feparation of the *recti* mufcles, the *linea alba* being there deficient; but it feldom extends far above or below the navel. The fimple navel-hernia is a very common complaint, which if immediately attended to, is eafily cured, perhaps merely by the ufe of the coldbath : but if neglected, may prove troublefome as the child grows up; efpecially to females. It will be fooner cured, however, if treated like the former complaint, by adapting a pyramidical comprefs, made of round Herniæ, or Ruptures.

round pieces of good flicking-plaifter, fpread upon thin leather, with pieces of card placed between them; or what is more eafily prepared, and is adapted to poor people, is a piece of bees wax as broad as a shilling, and half an inch thick; the upper part of it may be round, and the other flat, which fhould be placed on the navel. But if the child be a twelve-month old, thefe remedies will then require a pretty tight bandage round the wafte; and fuch a compression, I have frequently observed nurses afraid of, who often loofen the bandage fo much as to render it of very little use. On this account I have for some time past recommended Mr. Squire's elastic bandage, which if this rupture be complicated with the ventral, or belly hernia, becomes the more neceffary, and futing quite hollow on the fides, and making no kind of compression but on the part affected, and the opposite point of the back, perfectly answers the end, without the help of a furgeon. The child fhould be daily put into the cold-bath, for fome months, after leaving off the ban-dage or trufs—I have often obferved ftartings of the navel happen to infants, in whom the skin has been found running a certain way upon the navel ftring; on which account, nurfes ought to be particularly careful in fuch instances, and keep the part more than ordinarily confined.

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Ruptures.

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280 Hydrocete. or Watery Rupture.

Ruptures at the groin are of more confequence, yet may be fafely left without a bandage, efpecially as the cold-bath alone generally cures them when they happen to children before they go alone. In early infancy, there is likewife fome difficulty in retaining the trufs on the part, and it is continually liable to be wetted. Should a rupture, however, be very large, and the infant usually fretful and crying, recourse may be had to a fteel trufs ; to which it will be neceffary to pay fome attention, left it flip out of its place, or the rupture fall down, and be bruifed by the pad. After two years of age indeed, when children begin to take more exercife, the ufe of a trufs feems to be abfolutely neceffary, of which those made of steel as improved by Mr. Squire, are incomparably the best.

HYDROCELE, or WATERY RUPTURE.

THIS is a diffension of the *fcrotum* of a nature fimilar to the hydrocele of adults, and when it falls to the fhare of infants, I believe, it ufually appears at the birth. It is frequently miftaken by midwives and nurfes for a common rupture, who therefore advife a linen bandage to be applied in the ufual manner. It is, however, eafily diffinguished from a rupture, by the Hydrocele, or Watery Rupture. 281

the tumour being transparent; without pain; and from not retiring upon preffure, or not being increased by the crying of the infant.

Though I have faid it commonly makes its appearance at the birth, and that the tumor does not retire upon pressure, I think I have lately feen an inftance to the contrary.* In this cafe, I had occafion to examine the parts very attentively at the birth, on account of a little mal-conformation of another kind, and neither then, nor the next morning faw any appearance of hydrocele; nor was it difcovered by the nurfe or mother till fix weeks afterwards, though the parts, for the reafon above mentioned, were frequently examined. About this time I was fent for in haste, on account of the appearance of a large hydrocele, which, however, by the mother's report, was before I got there, greatly diminished. There was, neverthelefs, about three tea-fpoonfuls (as I imagine) of water in the fcrotum which from this time was diftended in different degrees, as the water happened to retire, more or lefs, through the rings of the mufcles, which I apprehend must have been preternaturally open; though no por-tion of the caul, or intestine, I believe, ever de-Aa3

* Mr. Le Febure de Villebrune met with it in.a. child of twenty-two months old.

282 Hydrocele, or Watery Rupture.

defcended; and the complaint difappeared in a few weeks, by only dafhing the parts with cold water, three or four times a day. -This infant was a twin ; and it is remarkable, that the other had likewife an bydrocele, which was not difcovered for three weeks after the former; but was much fmaller and got well by only the like gentle treatment.

The hydrocele is a harmlefs complaint, and would probably always difappear of itfelf in the course of a few months; but may much fooner be difperfed by fome aftringent lotion. The water of acetated ammonia has fucceeded with me perfectly well, and I have fometimes made use of compresses wetted in vinegar and water, with the addition of a little spirit, as the skin has been able to bear it. Perhaps the addition of crude Sal ammoniacus, as lately advifed by Mr. Keate, in the treatment of adults, might affift the abforption of the water. The fmoke of burning gum benjamin received upon flannel, and applied to the part, is likewife a good remedy. But the fpeedieft method is to puncture the bottom of the tumor with the point of a lancet ; which, as it may be done with perfect fafety, and with little pain to the child, is often preferred by the mother, as it inftantly removes a blemish which cannot but be unpleafant to her, whenever any other perfon may chance to bc

Retention of the Testes.

be witnefs to it. In whatever way the water be got rid of, I never knew it return, nor the child fuffer any confequent inconvenience; though the complaint is fo common that I have feen it in many-fcore inftances, and cured in different ways.

RETENTION of the TESTES.

THIS is a tumor in one, or both groins, and is another affection refembling the *hernia*, and is noticed on that account. As the application of a fteel trufs, or, indeed, any other bandage might here be attended with bad, if not fatal confequences, it is of importance that parents fhould confult fome medical perfon, whenever they fufpect a rupture.

This complaint being generally owing to a preternatural flricture of the rings of the abdominal mufcles, or to a want of due action in the cremaster or gubernaculum, I have nothing to recommend, unlefs it be in a negative way, to forbid any rude handling of the part, or attempts of the nurse to force the tefficles into the forotum. Should any thing of this kind be neceffary, it should be done by another hand. In the course of a few weeks, or months, however, the obstacle, of whatever kind, ufu-

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284 Tumefaction of the Prepuce.

ally gives way; though fometimes indeed the part remains confined through life, and its unnatural pofition is certainly attended with fome inconveniences, and a greater chance of injury to the *teftes*; of which I have feen more than one inftance in adults. Should inflammation take place, in confequence of any accident, during infancy, every proper means of counteracting itfhould be immediately had recourfe to, fuch as gentle laxative medicines, and fedative embrocations and cooling poultices, made of the compound water of acctated litharge.

TUMEFACTION of the PREPUCE.

THIS little complaint, like the hydrocele, arifes from extravafated water, and is a partial *anafarfa*, or dropfy of the fkin, and if it be not attended with inflammation, nor owing to a ftone flicking in the paffage, as it fometimes is, it never proves of any confequence, and is mentioned only becaufe it is always alarming to parents.

It may be washed frequently with the compound water of acetated litharge, or the part be wrapped up in a poultice of that kind, and the body be kept open, which usually removes the complaint in two or three days; but if it should not, the part may be lightly fcarified, and afterwards foment*Prolapfus, or Precidentia Ani.* 285 fomented. Should it arife from inflammation, as in the *eryfipelas infantilis*, the inflammatory caufe must be properly treated. If from a stone in the passage, the stone must be extrasted, if within reach, or if otherwise, it should be forced back into the bladder.

PROLAPSUS, or PROCIDENTIA ANI.

THIS is a falling down of the internal coat of the lower bowel (this coat being much longer than the others, and full of folds) and is either owing to its laxity, or to irritation. It is no uncommon complaint, nor ufually difficult of cure, being generally a fymptom of fome other, fuch as worms, or other foulnefs of the bowels, or has been induced by rough purges, diarrhœa, long coftivenefs, a ftone in the bladder, or other irritating caufe, and is ufually preceded by tenefmus, or needing; to each of which the proper remedy muft be applied, or the cure of the prolapfus will be attempted in vain.

But if the complaint fhould remain, after the irritating caufe fhall have been removed, it will then depend merely upon a relaxation of the part, arifing from the long habit of defcending every time the child has gone to ftool, and is, in general, eafily cured

²86 Prolapfus, or Procidentia Ani.

cured by an aftringent lotion. To this end, a compress of cotton, or soft tow, wrung out of the dregs of red wine, to which may be added a few drops of the water of acetated litharge, should be often applied, and fecured by a linen bandage, fo as to make a firm compression on the part; the compress may also be sprinkled with fine powder of myrrh, frankincenfe, and dragon's blood, or receive the fmoke of turpentine cast on burning coals. Or, fuppofitories may be made of powder of balauftines, red rofe leaves, and oak bark, in honey, and introduced into the bowel, after going to ftool-It may be found expedient to have the part fupported at fuch times, by a fervant placing a finger on each fide the gut : but this caution will not be neceffary unlefs the complaint has been of long ftanding, or the defcent be confiderable.

When this is the cafe, aftringent fomen-tations and injections will also become neceffary. These may be made of a decoction of oak-bark, which must fometimes be rendered more powerful by the addition of a little alum; the quantity of which should be increased as the part may be able to bear it. In children of eight or ten years old, who take much exercife, recourfe may be had to Mr. Gooch's fuspenfory, instead

of

Difcharges from the Vagina. 287

of the linen bandage above recommended.

DISCHARGES from the VAGINA.

THESE are either fanguineous, mucous, or purulent.—As I fpeak profeffedly only of appearances before the age of puberty, I have merely to remark on the firft, that female infants have fometimes fuch a difcharge from the vagina a few days after birth, which appears to be of no confequence. Should it, however, on any account, be thought neceffary to prefcribe fomething, a little teftaceous powder, or magnefia, according to the ftate of the bowels, will be fufficiently aftringent, as the difcharge always difappears in a few days.

Children of five or fix years old, are fubject to a *mucous* difcharge, refembling the genuine *fluor albus* of adults, which will in fome inftances be in an exceffive quantity, fo as to run through all their clothes; and is fometimes, though rarely, tinged with blood. If it were fuffered to continue, it would probably injure the health, but, I believe, may always be cured, by one or other of the means recommended for the the next, which may be called *purulent gonorrhea*.

This

Discharges from

This is no uncommon complaint in children of three or four years old, and is then, in general, eafily removed by a little cooling phylic, and keeping the parts perfectly clean. I have fometimes made use of a lotion of the compound water of acetated litharge, which I believe is preferable to most others, if had recourse to in the commencement of the complaint; and if there be any excoriations, they should be covered with the unguent. cerussa, fpread upon linen or lint.

When the purulent difcharge makes its appearance later, which it will do at eight, ten, and even twelve years of age, and is much discoloured and fetid, it gives rise to a fuspicion which young practioners cannot be too guarded against. There are, indeed, inftances of little girls, not more than fix years old, being injured and it is of confe-quence to make a judicial diferimination; but there are on the other hand, inflances of a very fuspicious appearance, as late as the age of thirteen or fourteen, where no injury could be received without the confent of the party, who is generally perfectly innocent, and where, therefore, the least fufpicion would be very distressing to her, and might make a whole family miferable.* Difcharged 3

* Induced by motives of humanity, I hope I may be permitted to add a word or two more on this fubthe Vagina.

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Difcharges with the worft appearances, are frequently removed in eight or ten days, merely by the treatment above recommended, but I have feen fome cafes in the youngeft fubjects, of a bad habit of body, where mercury, as a deobstruent, has proved ufeful, though I could not have the least fuspicion of a venereal taint. In fuch cafes, I have found Ward's white drop a more convenient medicine than any other preparation of mercury : it may be given in the dofe of half a drop, and may by degrees be increafed to two and even three drops, once or twice a day, for two or three weeks. But where this has failed, I have only to add, that I have been always able to fucceed by giving Bb

ject, to professional readers ; whose prudence and information may not only prevent a vait deal of unneceffary diffress to many worthy families, but may even fave the life and character of another party fuspected of criminality. For, befides many inftan. ces wherein inattention or ignorance might give rife to injurious fuspicions, there are cafes which call for much experience and attention in order to form a just and decided opinion. I have, indeed, known the difcharge to be fo ill-coloured and fetid, and attended not only with great pain and inflammation, . and excoriations in different parts, but fuch tumour and other appearances of violence offered, about the furca, that had the patient herfelf advanced any charge, I fear, I should not have hefitated to have joined in with it ; and yet from the event, as well as the whole hiftory of the cafe, it has been very evident, that no kind of injury had been received.

290 Of the Venom of Infects, a decoction of the bark, with balfam. copaiba, ovi vitel. folut. which is also an admirable medicine in the fluor albus of adults.

OF the VENOM of INSECTS and of CER-TAIN ANIMALS.

THOUGH the following accidents, like fome others before mentioned, are not confined to any age, they are, at least more formidable when they fall to the lot of little children. It is hoped, therefore, it will not be thought triffing, to recommend fome fuitable antidote against the bite, or fting of venemous infects, particularly the wafp, gnat, and other flies; especially as they happen frequently to children in the country, at a great distance from medical help, and often alarm parents exceedingly. Indeed, for the most venemous, fuch help can rarely be had before confiderable inflammation has taken place; after which it will take its courfe, and will continue, if occafioned by a gnat, three days, and by fome other infects, for fix; though the tormenting itching may be allayed much fooner by the means of proper applications. If the bite should be on the eye-lid, the infide of the lip, or ear, very troublefome fymptoms may follow, and the infant will be vexed by it exceedingly.

In the absence of better remedies, the first

and of certain Animals. 291

first application may be, of the strongest spirit at hand, three parts, two of vinegar, and one of sweet-oil; taking care it do not get into the eyes. But as soon as may be, the following should be applied very frequently; which will check the progress of the venom, and allay the pain and itching immediately,

Of camphorated fpirit, a table-fpoonful, Of diffilled vinegar, and of laudanum, each a tea-fpoonful;

to which, if the injury be not too near the mouth, may be added twenty drops of the water of acetated litharge.

The bite of the common bug which infefts crouded places, not only occafions a tormenting itching in children of a very delicate fkin, and in certain grown people newly come from open villages, but will alfo fometimes raife blifters as large as pigeons eggs, and will inflame the parts for feveral days. The beft application, I believe, is vinegar with a fmall quantity of olive-oil, and a few drops of laudanum : oil alone, would rather increafe the fize of the blifters.—Whereas, for the highly venemous bite of the viper, the immediate application of olive-oil is the well-known, and certain remedy.

Under

Under the painful impressions of an awful accident that happened in my own family, at the time I was engaged in this part of the work, (though I thank God, the alarm terminated happily,) I cannot avoid dropping a few words on the envenomed bite of morbidly enraged animals. It is not my intention, however, to advert to the peculiar nature of this most malignant poison, nor to enumerate the many deceitful remedies that have been at different times propofed with an air of infallibility; fince dwelling long on this unpleafant fubject would ill accord with a tract of this kind. Nor is it my defign to propofe any new remedy, but rather to lament, that the best preventatives fhould be fo ill attended to, particularly amongft the inferior clafs of people, to whom this dreadful accident happens oftener than to the rich. And on this account, as wellas the fubject being rarely treated of, and feldom falling in the way of any but medical people, (who are often confulted too late) it is hoped, the intention will apologize for obtruding a friendly caution in this place. For, after a good deal of experience, and much inquiry and reading on this fubject, I am confident, that nothing ought, in any inftance, to be depended upon, but taking out the injured parts, by the knife or cauftic ; which if duly and timely effected, cannot fail to prevent every evil apprehended. But whenever

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Morbidly enraged Animals. 293

whenever the fituation of the wound may not admit of going deep enough to infure fuccefs, or too much time may already have elapfed, the ftronger mercurial ointment ought to be rubbed in very freely, fo as to raife a falivation ; which has not only been thought to have proved an effectual prophylactic, but to have alfo fucceeded even where evident fymptoms of infection had taken place.*

I have only to add, (what it is, indeed, a great fatisfaction to be able to fay,) that, dreadful as this accident is where the poifon has taken effect, it is evident, that o ly a very finall proportion of those who are bitten by animals actually enraged, receive any injury from it. Fortunately, the clothes fometimes prove a defence, by wiping off the foam from the anima''s teeth ; at others, it does not happen to be forced into the wound, or is not yet poffeffed of a poifonous quality; or lastly, it is not abforbed, or the fystem may not be in a state to be infected. These affertions are supported by numberless facts, though much less frequent, perhaps, in London, than in fome other parts, efpecially on the continent, where fuch animals are very commonly met Bb3 with

* See Histoire et Memoires de la Société royale de Medecine. Année 1783. 2^{de} partie-Tistot. Dr.-Layard, &c. 294 Complaints mentioned by old writers. with, and often wound great numbers of people.

It is, doubtlefs, the uncertainty of the effects attending fuch injuries, that has fupported the credit of many fallacious remedies on this melancholy occafion. Encouraging, therefore, as the above circumfrances certainlyare, it would, indeed, be madnefs to confide in them, where the proper remedy may be made ufe of in time; and though I should wish to conceal rather than spread these acknowledged facts, could I think they would have such an effect, it is on the other hand, no small fatisfaction, that such encouragement may be justly held out to those who may be under any alarm for themselves or their friends.

There are feveral other difeafes attributed to young children, recorded by Rhazes. Paulus, Oetius, Fabricius ab Aquapendente, Celfus, Primerose, and other less ancient writers ; of fome of which I know nothing but from their own account of them, or that they are needlefs diffinctions of difeafes already mentioned, which the ancients were very fond of making, especially in complaints of the skin, but can answer no practical end. Among the difeafes mentioned by these writers are, Lentes, Hi/piditas, Achores, Favus. Pforophthalmia, Impetigo, Ranulæ or Batrachos, Seriafis, Pari/thmia, Parulis, Inflatio, Crinones, Malum Pilare, Phthiriasis, Hydroa, Macies.

Ranula.

The fix first are affections of the skin, or the eye-lids. Achores and Favus * are a a fort of Crusta-Lactea, or milk-blotches, fo called by some, when of a dark colour, or ulcerated, and extending to the head, and Impetigo when it attacks the chin; but by others the term Achores is applied only to adults. Pforophthalmia is confined to the eye-lids, and is so named by Œ11US, and others after him.

Ranula is an inflammatory tumor of the parts under the tongue, and according to the ancients, particularly of the veins : it fometimes ulcerates, but often presents a fpecies of loft, and lax adema. Celfus fays the tumor is fometimes included in a cyft, which must be taken out; the operation for which is tully defcribed by AQUAPENDENTE. Although fuch feemingly different accounts are given of this complaint, the Ranula appears to be no more than an infarction of the fublingual glands, and I believe, is not very common in infants, and indeed is moftly an epedemic complaint. I have feen it however, in this country, in adults, of the fize of the largest walnut, and it then becomes very troublefome, both in fpeaking and

* The Tinea, or feald-head, fo called when the feabs have refembled moth-holes in cloth, and Favus when like an honey-comb, has been alfo termed Achores, when the difeharge has been unfually acrimonious.

Crinones.

and deglutition. When larger it is ufually foft, and contains a fluid, and fometimes calcareous concretions, owing to an obstruction of the falivary ducts. In this cafe, it needs only to be opened, and to be cleared of all the conretions; but if it be hard, the whole tumor must be extirpated. Serias, from orpos, quia quasi excavatum cernitur -PAULUS (Lib. i.) defcribes it as an inflammation about the cerebrum, in which the brain is faid often to mortify within three days; but if it should not, the child may recover. Paristhmia is an inflammation of the tonfils, or throat, but is certainly not common in this country ; it is hinted by Hippocrates in his book de Dentitione. Parulis, a complaint defcribed by Paulus as a painful tumor about the gums; Rhazes calls it a blifter in the mouth. Inflatio is a diftention of the fkin from wind or water after a child has been reduced by long illnefs. Crinones, or Grubbs, is little known as a difeafe, I belive, in Europe. It is probably a fecretion from the febaceous glands, and appears on the arms, legs and back of fucking children; and is abfurdly enough thought by fome to be produced by infects:* older children are often found to have fome appearances of it, but it feldom affords them farther trouble than a little itching, and they amule

Crinones.

amufe themfelves by forcing out of the fkin what they call worms.—In the inftance of infants fo affected, rubbing the parts with a coarfe cloth, by the fire-fide, is all that will ufually be neceffary in northern climates.

Though this kind of affection is general-ly of little confequence, whether in infants, or young children, 1 have, neverthelefs, known it prove a very troublefome com-plaint in older fubjects, efpecially in females about the time of puperty. In fuch inftan-ces, the whole neck, back and breaft will be covered with little black fpots, which gradually inflame till the parts become totaly covered with heated pimples. Thefe at first itch intolerably, fo as frequently to keep the patient from fleep through the greater part of the night; and in confequence of being continually rubbed, turn to little in-flamed and angry boils. When fome of thefe have difcharged the febaceous matter, and are healed up, others will arife, in fucceffion; and at the end of feveral months, the fuperior parts of the body are covered with them.

After making trial of common purges and alteratives, to no lafting advantage, I have cured the complaint by wafhing the parts morning and evening, for a few days, with the lotio faponacea, and afterwards rubbing in a little unguentum hydrargyri nitrati; 298 Morbum pilare-Phthiriafis.

trati; and when the forenefs has gone off, making ufe of a proper flefh-brufh, for two or three months. The patient may at the fame time take a few drops of the aqua kali, two or three times a day, in a cup of faffafras-tea, or milk and water.

A complaint fometimes confounded with the former, is that called *Morbum pilare*, and is fuppofed to be fpoken of by Hildanus, as fadly tormenting one of his children. It is alfo mentioned by Parey; but I have never met with it myfelf. It is faid to be owing to hairs not duly expelled, which flick in the fkin, efpecially the backs of young infants, whom it torments by an inceffant itching, and fometimes raifes finall tumors. The cure is faid to confift in fomenting the parts, and then pulling out the hairs with a pair of nippers.

Phthiriafis, or Morbus pediculofus, is a complaint I should not have mentioned, were it not fometimes found very troublefome, and the heads even of children who are kept the most cleanly, much pessered with these ugly vermin. It is not therefore intended to treat of it as a difease in other parts, and will be quite sufficient to fay, that the cure is, in general, very simple, and requires only the hair to be sprinkled for a few days with the powder of *staves-acre*; a remedy that is kept a fecret by some foreign perfumers, who fell it at a great price.

Hydro

Macies.

Hydroa, or Sudamina, is a triffing eruption from the fudorific glands. Macies, or according to fome, atrophia lactantium, is applied to a decay, faid to arife either from worms, (and is then called atrophia vermi $nofa^*$) or to the unfuitableness of the breastmilk, which though it may be good in its kind, will not prove alike nourifhing to all children. The milk is then properly directed to be changed, upon which it is remarked, the child will often recover. This diforder is, however, a true atrophy, or marafmus, from whatever particular caufe, and into which an infant may fall in confequence of almost any of the complaints treated of in the forgoing pages, when they may happen to prove of very long continuance.

I have now gone through all that have been ufually ranked among the diforders of infants, and have taken fufficient notice, as I apprehend, of every complaint worth mentioning, that I have met with either in my reading or practice; and may flatter myfelf this little tract will be found to poffers the advantage of compleatners above every work of the kind. † That nothing may be overlooked, it remains to take notice of fome *con-*

* See Harris.

+ Should the intelligent reader recollect any diforders of confequence that are overlooked, or conceive there are any material miftakes in the defeription.

Encephalocele, or

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congenite difeases, and other external blemfhishes; and first of those about the head.

ENCEPHALOCELE, or HERNIA of the BRAIN.

M ANY infants come into the world with fome parts imperfectly formed, and never more commonly than in the up-. per part of the skull. If the deficiency be very great, and accompanied with a like want of brain, fuch fetufes fall under the clafs of Monsters, and being never born alive, are not fubjects of this work.

The bernia of the brain, on the other hand, is met with in infants otherwife completely formed, and is generally curable.

The public is indebted to Monf. Ferrand for an accurate defcription of this complaint, given in the 5th. volume of the Memoirs de L'Acadèmie royale de chirurgie.

The Encephalocele is a foft circumfcribed tumor, ufually of a round form, and correfpondent in fize with the extent of the deficiency of cranium; to which the complaint is owing. It is without fluctuation, or

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tion or treatment of others, and would be at the pains of making the author acquainted with them, his firictures will be thankfully received, and duly noticed, should the author live to revise another edition.

Hernia of the Brain.

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or discolouration of the skin, but is attended with a perceptible pulfation of the brain, which fynchronizes with the pulfe. The tumor retires and disappears upon pressure, and is always fituate either on one of the fontanelles, or in the course of one of the sutures, and is never larger than a pullet's egg. Where the defect of offification is very confiderable, a much larger portion of brain is confequently protruded, which ftricily fpeaking, it were less proper to call a disease, than a fatal mal-formation, as it is pertinently remarked by Monf. Ferrand; and no more refembles the true encephalocele, than an eventration refembles the common inteftinal hernia. It will be very neceffary, however, carefully to diffinguish this incurable evil from other foft tumors of the fcalp, prefently to be noted, which it very much refembles; the latter having frequently the like precife feel of a bony margin around the tumor, as is common, indeed, in cafes of extravafation upon any folid furface. The tumor is alfo colourlefs, and often as large as in the fatal mal-formation, but has a confiderable fluctuation, and is farther diftinguishable by the tumor not retiring upon preffure, nor being attended with any pulfation.

The Encephalocele is, indeed, eafily diftinguished from them both, by the brief defcription above given of it; and fatal as it C c would

302 Tumors of the Scalp.

would be were it left to itfelf, it requires only to be properly understood, in order to adapt a rational and effectual remedy, which confifts only in a careful and due compref-fion of the part. This may be effected by the application of a piece of lead, fomewhat larger than the tumor, and pierced with holes, that it may be fewed to the child's cap. The compression should at first be very moderate, and always fuch as may not give pain to the infant, nor difturb any ot the natural functions; and may gradually be increased as the tumor shall retire. This is all that is required from art, the cure being the bufinefs of nature, which if the child continue healthy, will proceed in the work of offification, and in due time will fill up the vacancy in the skull. The protrusion of the brain was before an obstacle to this process, whilft the injury that tender organ must fustain by the pressure from the fides of the bone, exposed it to all the evils which compression never fails to produce ; and which it were needless to enumerate in this place.

TUMORS of the SCALP.

THERE are other tumors on the heads of new-born infants, which it were improper intirely to pass over. One kind Tumors of the Scalp.

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is occasioned by long compression in the birth, is of different fizes, and the Ikin is always difcoloured, but feldom requires much attention, as these tumors frequently difappear in a few hours. If large, it is common to bathe, or foment them with red wine, brandy and water, or vinegar, and in general they gradually fubfide, though fometimes not perfectly for feveral days. Some of them, however, are of more confequence, and concerning the treatment of which practitioners have differed; the abfolute impropriety of opening any tumors arifing from compression having been conceived of by many. On the other hand, I believe, it may in fome cafes, be really neceffary, in order to prevent a troublefome fungous fore, and even a caries of the skull. The difcrimination, however, is fufficiently obvious, fuch affiftance being required only where the above remedies and compression have had no effect, and the tumor is found fenfibly to increase day after day, which in some instances has been the cafe to the end of the month. Such growth is always owing to the extremities of the arteries ruptured by long compression, being still open, and pouring out an ichorous fluid into the cellular membrane, and thereby keeping up and increasing the original tumor.

Upon opening the integuments, a bloody fluid is led out, and the tumor nearly fub-C c 2 fides, fides, which afterwards requires nothing but moderately aftringent applications and preffure, which fhould be continued for a little time after the aperture is clofed.

Another kind of tumor has been hinted, which has a more unfavourable appearance; and of which it may be proper in this place to take a little farther notice. These tumors contain a kind of ferum, and are often very large, but without that discolouration of the fcalp and bruifed appearance, that there conftantly is in those last described, nor do they, indeed, feem to arife from compression; I have, at least, feen them extending over a fourth part of the head, and raifed a full inch from the skull, after the fhortest and most easy labors. To the defcription before given of them it may be added, that this kind of tumor, I believe, will always fubfide very kindly, though fometimes not completely, for feveral weeks. It usually begins to leffen, however, in fix or eight days after birth ; and as it fublides, more and more of the skull may be felt, from day to day, in proportion as the abforption of the fluid takes place. To affift nature, therefore, in this operation, embrocations of vinegar, crude fal ammoniac and camphorated fpirit fhould be made ufe of, with a gentle compression of the part, as well as keeping the bowels properly open.

L 305 J.

LYMPHATIC TUMORS on the HEAD and SPINE.

THERE is another kind of tumor ap-pearing fometimes on the head, and at others, on fome part of the fpine, which is not owing to accidents in the birth, but is of a morbid nature. These tumors contain a lymph, and are attended with evident fluctuation, as may be difcerned by the touch; and unlefs they are exceedingly fmall, ought in no cafe, I believe, to be punctured, or even removed by ligature, though adhering only by a fmall pedicle. Those on the fpine of the neck, or back, or on the loins, if they do not arise from the dura mater inclosing the medulla fpinalis, feem to originate at least from the periosteum of the fpine; and the iffue having fome morbid fource, will be kept up after the tumors are opened, or even totally extirpated, and preventing the fore from healing, the infant finks under the discharge, or dies in convultions.

But there are other tumors of a fimilar appearance, which being neverthelefs of a different kind, may be fometimes fafely extirpated, and will be noticed below under the head of *Spina Byfida*, to which likewife they bear a confiderable refemblance.

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SPINA.

SPINA BYFIDA and PARENCHYMATOUS TUMORS.

THE Spina byfida is too well known to require much to be faid upon it. It is a fatal mal-formation, and feldom admits even of much temporary relief, though fome evik may be prevented by pointing out the most innocent applications.

It is of two kinds, open and occult. They both arife from deficiency of bone in fome part of the spine, usually about the toins, or os facrum. The ulcerated ones are of a deep red colour, and in figure and fize refemble the mouth when the lips are drawn together, and the angles brought towards the centre. When the fpina byfida, is occult, or the skin is yet intire, it is of a fcarlet, or fublivid hue, the tumor unequal, pretty firm in fome parts, and in others raifed into little veficles, and often refembles a cancer just about to break into a fore. It is well known, that in this state, the skin ought not to be opened, as it would certainly hasten the death of the infant. On the other hand, every mean should be made use of to prevent the skin from giving way, which should therefore be dreffed with cooling, aftringent and drying applications, in the form of lotions and powders, and the part

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Parenchymatous 1 umors.

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part afterwards covered with a faturnine cerate; which are likewife the propereft applications afterwards, as well as for that which is open from the birth, and will, at leaft, afford fome eafe, as well as tend to prolong the life of the child. Such treatment is alfo the more proper, from the hope that the tumor, whilft occult, may possibly be of the more benign kind, now to be noticed.

These I have termed parenchymatous tumors; they appear on different parts of the spine, but more commonly near the neck or os facrum, are accounted marks, and sometimes, it has been faid, refemble the fpina byfida, but are not always of such a morbid nature as to prove certainly fatal, though it is probable, they all might, if left to themsfelves. As I design, however, to treat only of such as will admit of some remedy, I shall mention only two.

The first is a tumor on fome of the vertebria, ufually of the neck, or the first of the back; it is of a fublivid hue, unequal, internally fpongy, and very vafcular. I faw one of this kind fome years ago, in confultation with the late Sir Cæfar Hawkins, who advifed to preferve the skin unbroken, as long as it should be possible, which he feared was all that could be done for it; and to this end, recommend the free use of the compound water of acetated litharge. 308 Parenchymatous Tumors.

It was then about the fize of a crown-piece, and not raifed very much above the level of the furrounding parts. The tumor, however, increased, and the skin not long afterwards gave way, and the child became ill; in confequence of which the late Dr. Hunter was defired to give his opinion, who advifed the tumor to be taken out, as the only chance for preferving the child's life : but the father difapproved of the operation. The part foon began to bleed a good deal at times; in order to fupprefs which, as well as to leffen the tumor, which was now confiderably more prominent, I fprinkled it with the following powder, R. Bol. Armen. pulv. Catechu ā 3ij. Allumin. rup. 3j. Misce. Over this, compreffes wetted as above were applied frequently through the day. Thefe would fometimes adhere for feveral days owing to the blood and powder forming a fort of paste, till a fresh oozing from the veffels loofened them; at which time the bleeding returned, and the applications were repeated : by the continuance of which, however, for feven or eight weeks, and compression with a piece of thin lead, the veffels gradually fhrunk, and the difcharge being dried up, the part was happily skinned over, and the child recovered its health.

I have lately feen another tumor of this kind, which was treated in a different manner. It was feated on the last *vertebra* of

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Parenchymatous Tumors. 309

the back, and was apprehended to be the true Spina byfida: but as no part of the bone could be felt, nor the tumor by preffure, be made to recede, I hoped it might be otherwife, and ventured to advife taking it off, as the only chance the infant had for its life. This was accordingly done when the child was about eight days old, and though a good deal of blood was loft in the operation, from a deep feated artery, the fore at the end of the month was perfectly healed, and the child foon afterwards became as healthy as any other in the family.

On the Hare-Lip, and other External BLEMISHES, or COMPLAINTS, Supposed to be Marks of the Mother.

THOUGH it be fomewhat befide my purpofe, to treat expressly on furgical operations, I cannot close this part of my fubject without taking notice of the harelip, and other very common blemiss, if it were only for the fake of adding my testimony to that of a fensible modern writer, * who has in an able manner, though not with equal fucces, combated the unhappy prejudices of mothers in relation to marking their

* Dr. Hugh Smith.

On External Blemishes,

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their children; which they always imagine to be owing to a violent imprefion from the fight of fome difagreeable object, or to a difappointment in fomething they may have longed for, during their pregnancy.—And I have chofen this place for fuch obfervations as I have to offer on this head, becaufe the *bare-lip*, and a few other of the blemifhes remaining to be noticed, bear that refemblance to objects around us, which is wanting in thofe before mentioned.

The repeated experience of every attentive observer, has uniformly militated against the tormenting fuspicion alluded to, but still it prevails, though only to the injury of those who ought, for their own fakes, to be perfuaded to the contrary. Every man long in business has known many instances of affectionate mothers, (for this needlefs diftrefs falls only to the lot of fuch) who have tormented themfelves for fix or feven months together, in the painful apprehension of difcovering fome fad blemish in the child, (and on this account have trembled to look on it when it has come into the world) which has afterwards proved to be as perfect as they could have wished, and as the more more dispassionate amongst their friends have all along ventured to foretel. On the other hand, where children have been born with some real blemish, it has never been sufpected by the mother, unlefs now and then

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called Marks.

in a moft timid perfon, (who has always bred in fear on account of fome difagreeable object or other fhe has feen), or elfe the blemiss turned out to be fomething *perfectly irrelative* to it.* And here it ought to be noticed, that where a child has really been

* Among feveral inflances of fuch blemifhes, in the Britifh Lying-in Hofpital, we have had fome remarkable ones of the *intire ignorance* of any fuch fuppofed caufe. In one, the infant was more marked than almoft any one I had ever feen; but I fhall enly notice, that the eye-lids, part of the nofe and temple, and the greater part of one of the nofe and temple, and the greater part of one of the cheeks, were as black as ink, and exactly refembled a dry gangrene of the parts. In a recent inflance, the extremeties were uncommonly ill-formed, and not a little refembled thofe of different animals; but the mothers of thefe infants had gone on to their full time, without their having received any fright they could recollect, or fufpecting any thing amifs in their children.

I fhould not, indeed, have ventured, even in a note, to have particularized fuch deformities, but on account of their aptnefs, and in the hope of preventing rather than creating fears and fufpicions, in women of peculiar fenfibility. For thefe children were really fo disfigured, that a lively imagination, or a mind firongly imprefied, might not only have conceived in them a great refemblance to many objects, but it is more than probable, that the parents muft have actually noticed not a few fuch, during the period of geftation—Where any fuch deformity, therefore, may actually have taken place, I only wifh ladies to be perfuaded, that fuch tights have not been the true caufe of it, nor can fuch objects, therefore, contribute to the production

Of

312 On External Blemisbes,

been marked, and the mother has infifted on her having feen, and been frighted by an object which the blemifh has refembled, it has, (to the beft of my knowledge, at leaft) appeared always to be an afterthought, by which the fuppofed occafion of it has been difcovered; and has not been taken notice of before-hand. It is, however, the fartheft from my thoughts to upbraid the fufferer on this painful occafion, or to tax any wilful giving way to fufpicions, into which, I am perfuaded, their feelings alone infidioufly betray them. I with only to obviate the influence of a fentiment that I take to be without fufficient foundation, and to which nothing but length of time, and prefcription, could have given a fanction.

That

of the like appearances another time.—In this view, I cannot help obferving, that only a few days ago, a lady of rank acquainted me, that fihe had paffed almoft the whole term of geftation in the apprehenfion of her infant being born with a Hare-lip, on account of her having been daily met by a labourer working in her own grounds, who had fuch a blemift. In this infance, the imagination feemed to have done its utmost; as the lady conceived fhe met this man oftener than any other, and that fhe could not avoid him walk whichfoever way file might; and in confequence had his image continually before her, either in reality or in recollection; and was kept under a continual alarm by it. It is needlefs, poffibly, to add, that the child was born free from the apprehended blemifth. called Marks.

That there are blemishes which bear a refemblance to various objects around us, daily experience has proved; though the true occasion of them is not, perhaps, underftood. The like deviations from the ordinary courfe is observed, not only in other animals, but alfo in the vegetable kingdom, fruits being often joined together, and other-wife ftrangely misshaped, which must arife from the common laws of nature being fome-wife diverted from their ufual courfe, by fome accidental caufe equally unknown to us. But however this may be occafioned, there is nothing that we know of in a fright or longing, that can produce fuch a change in organized matter, nor can operate in the manner that has been fuppofed, much lefs at fuch different periods; but there is, on the other hand, every thing against fuch an hypothesis; which has accordingly always given way in enlightened ages.

The inftance fo often adduced from the facred hiftorian, is by no means in point : for without adverting to the very peculiar natural circumftances in that transaction, which are wanting in ordinary inftances, it is fufficient to obferve, that there was therein an evident divine interpofition. Should any one doubt of this, he has only to make a fimilar experiment, the refult of which will, probably, have more weight than ten thou-D d

The Hare-Lip.

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fand arguments. As matter of fact therefore, as before obferved, does not at all countenance, but directly contradict the hypothefis, there is the ftrongeft reafon for married women arguing themfelves out of fuch fears, inflead of reafoning themfelves into them, and fuffering a painful conflict for weeks, and months together. It will give me great pleafure if any thing I have advanced on the fubject, fhould anfwer fo defirable an end; whilft reafon, philofophy, experience, and every thing on which we ought to depend, confpire to fupport fuch an attempt.

Amongst the various Marks refembling fome of the objects around us, that called the Hare-lip is the most common; a blemish too well known to require any defcrip-It is fufficient to obferve, that it is of tion. two kinds; the fimple, wherein the upper lip only is divided, either wholly or in part, with fome lofs of fubstance; and the complex, in which the fiffure of the lip is double; and fometimes the palate of the mouth, and even the uvula is divided. It would be befide my purpose, in this place, to treat of the manner in which this deformity and defection is to be remedied; I shall confine myfelf to fpeaking only of the time in which it ought to be attempted.

Various confiderations contribute to make the diftreffed parents folicitous to have this blemifla The Hare-Lip.

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blemish removed foon after the infant is born, or at fartheft before the month shall be expired. On this account I am convinced, the operation has fometimes been prematurely performed, contrary to the better judgment of the operator, and not a few children have thereby fallen a facrifice; whilft others have received much lefs benefit than they would have done, had the operation been postponed for a reasonable time. Where the blemish is very trifling, indeed, and the operation fimple, it may be done with reafonable fafety in the course of the month, or a little after; and if the child be able to fuck, which is not always the cafe, there are even fome advantages in performing it fooner. For as the child will not be able to take the breaft for two days at leaft after the operation, it will with difficulty be kept tolerably quiet by the fpoon after it has been once put to the breaft ; but as infants need but very little nourishment for the first days after birth, and generally sleep a good deal, if the operation be done twentyfour hours after the child is born, it will be in a condition to fuck by the time it requires much nourifhment, and the mother's breaft is prepared to furnish it. But in the complex hare-lip the cafe is exceedingly different, and the longer the operation is postponed, the better it is likely to fucceed, and Dd 2 fhould

316 A similar Blemish of the Mouth. should at least be deferred till the child shall be four or five months old ; the good effects of which I have lately feen in a child born at the Lying-in hospital. By this time also, the infant will have got over the period in which it is most liable to fome painful and dangerous complaints; will be thoroughly weaned from its hankering after the breaft, and have learned to feed contentedly with the fpoon; by which children with this kind of hare-lip are obliged to be fupported, they being always unable to fuck. At this period likewife, the parts will have acquir-ed a degree of firmnefs neceffary to retain the needles, as well as fize that will admit of handling them to greater advantage; for the want of which, though the operation may appear to have been favourably performed, the needles will fometimes break out, and the deformity be but little removed, or perhaps fometimes be increafed.

I have once feen another blemifh of the mouth in a child born at the hofpital, which required a fimilar operation. In this infant, the mouth was much wider on one fide than on the other, and appeared as if that fide had been divided far into the cheek, which gave it a very awkward appearance; but as it was capable of being remedied in the fame manner as the hare-lip, I fhall only obferve, that when I withdrew the pins on the third day, On Superfluous Parts. 317

day, the parts adhered very firmly, and the child left the hofpital at the ufual time.

A different kind of blemish confists in fome fuperfluous part. Such may fometimes adhere only by a fmall bafe, like a thread, and may be removed by only paffing a tight ligature round them. But should any even adhere more firmly, and be only a fmall joint, fuch as a finger or a toe, it were better to have it cut off on the first days; as the veffels will then bleed but little, and the griftle by which fuch joints are usually connected, are not yet become bony. But should the part be more completely formed, it may beneceffary to delay the operation awhile longer, that by difcovering which of the duplicates may take the lead, the more promifing one may be preferved; which is not always to be known with certainty, at the birth.

Befide thefe, there are blemifhes of far greater importance, fome of which demand an operation as the only chance for preferving the life of the infant. Such are imperforations of the *anus* and *uretbra*, or the *vagina* in females.

The Vagina is fometimes imperforate on the *external*, at others, only in the more *internal* parts; and is in different degrees. The latter more commonly relates only to the hymen, which requiring an operation to be performed about the age of puberty, Dd 3 I fhall.

Imperforate Anus.

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I fhall do more than barely mention here, efpecially as it requires only a fimple, or crucial incifion. Where the imperforation is in the fubftance of the *vagina* itfelf, I have never found an operation to be of any ufe, though I have known it attempted, in the adult, with great addrefs and refolution.

I have never met with the *external* parts totally imperforate, but have known the aperture fo very fmall as to require a little operation, which is mighty eafily done with the point of a lancet; there being always a *raphè*, or line, directing the extent nature has feemed originally to intend, which being through, requires only to be kept apart for a few days, by a bit of fine lint.

The imperforate ANUS is a melancholy cafe, as it feldom allows of an effectual remedy, the gut often terminating in a *cul de fac* fo high up as not to be reached; it is not, however, always to be defpaired of, though no fluctuation of the inteffinal contents fhould be felt for two or three days after the infant is born.

I remember only one cafe of this kind in the Lying-in hofpital, and in that I happened to fucceed, contrary, indeed, to all expectation, and after the child had puked up a great quantity of meconium; and not only the belly, but alfo the face was exceedingly tumid, and the eyes had not been opened for fome time. Imperforate Anus.

The manner of doing this operation mult, in different cafes, depend fo much on the different of the operator, that I fhall do no more than deferibe that which I made ufe of in the inftance alluded to.

The operation was not determined upon till the third day. A longitudinal incifion was made, of about half an inch, above and below the part where the anus ought to have been, which was marked by a little excrefcence; a fmall biftoury was then thruft up in the ufual direction of the bowel, for more than an inch. No meconium following this puncture, I examined carefully with my finger, and feeling fomething like the fluctation meconium would make, I introduced a trochar, and withdrawing my finger, I carried up the inftrument in fuch a direction as to avoid injuring the bladder, or forcing it against the os coccygis, for near an inch farther, making allowance, however, for the yielding of the parts, which might be fomewhat forced up by the trochar. The inftrument having now paffed forwards, without that refistance it had hitherto met with, gave me the fenfation of having entered a cavity, when withdrawing the trochar, we had the fatisfaction of finding the meconium run out at the canula. The child was now put into a warm-bath, up to the waift, and in a few minutes having voided a confiderable quantity of meconium, it opened its eyes

eyes, looked cheerfully about it, and fell into a pleafant fleep before it was taken out of the bath.

A piece of bougie was occasionally introduced, and fometimes left in the part, for a few hours, for the first fortnight; after which the child recovered faft, and at the ufual time was taken from the hofpital in pretty good health, though it had been much reduced by a bad thruth, which unfortunately made its appearance foon after the operation; but it always voided its stools perfectly well.

The imperforate Penis is not quite fo common a cafe; but is not unfrequently fuspected, when the end of the passage is merely ftopped up by a little mucus; and fhould therefore be examined in good time. In this cafe, washing the part with warm milk and water, or at most, a little affistance with a fmall probe, or any fuch blunt pointed instrument, will be fufficient to open the paffage. But it is evident, if the urethra be wanting no operation at all can be performed: it is, however, more commonly found open a certain way, and often as far as the basis of the glans, and fometimes near to its extremity; in which last inftance, it is neceffary only to make a fmall aperture with a lancet, or a fine trochar, and to keep the part open by the occasional introduction of a bougie. The more com-

Imperforate Penis.

common complaint of this part however, is that of the urinary paflage terminating by a fmall aperture at a little diffance below the glans, and fometimes on one fide of it. In thefe cafes, the precife circumffances mult determine the propriety of any operation, which if not carefully managed, may render the cafe worfe than it was. I recollect two indeed, in which I was able to do confiderable fervice, one of which was in the prefence of the late Sir Cæfar Hawkins, and the other of the late Dr. Hunter; in the latter, the urine was difcharged from one fide of the *penis*, and pretty low down, which was very happily remedied.

There are other mal-formations of this part, by which it is drawn downwards, or to one fide; the peculiar circumflances of which, muft point out the nature of the operation most likely to afford relief. This will generally confift in a fimple incifion of the fkin, where it may happen to be too tight or fhort, and keeping the divided edges at a diffance from each other, till the little fore fhall be healed.

I have likewife known the Ears to be imperforate, a cafe that allows of no remedy; but the external appearance may fometimes be affifted, when the *helix*, or outer circle, is turned forwards over the *tragus*, covering that part which ought to lead to the internal ear; but in thefe cafes,

Squinting.

I have always found the *concha*, and *meatus* auditorius, totally obliterated.

Another, and a very common blemish, is that called Squinting, which is fometimes contracted by very young infants, and may then frequently be remedied, especially if confined to one eye; but if a child be born with this deformity, it is not fo likely to be removed. The means I have to recommend are, indeed, very fimple, and confift only in applying a piece of flickingplaister spread on some bright coloured filk, in fuch a position, either on the temple, or the nofe, agreeably to the fide on which the eye is difforted, as may draw it the contrary way. In order to keep up this attraction, the colour of the filk ought to be varied from time to time, as well as its fituation, placing it a little higher, or lower, both for the fake of change, as well as to answer any other end, that a due observation on its effects may point out. Befides this, the child ought always to be placed with that fide towards the light from which the eye is difforted; and for the like reafon, its parents, nurfe, play-things, and every other object that can attract its notice, fhould as conftantly as is poffible be on the fame fide, that the child may have every inducement its age and circumstances will allow, to draw the eye the right way, and by

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Vari and Valgi.

by early habit, counteract a muscular action that is not yet become permanent.

Another method more proper for older children, is covering the eyes with ogles, which are glaffes fixed in a little cafe, fuch as many people wear when they ride on horfeback. They must be fo placed, that the child can fee no object but by turning the eyes to the fides from which they are difforted. It is fearcely neceffary to add, that the glaffes must be worn constantly, till the bad habit is overcome.

Infants are liable, indeed, to many other blemifhes; but as I mean to treat only of fuch as call for medical attention, and admit of fome remedy, I fhall mention only one or two more, which are very common, and with them clofe what I have to fay on their Complaints.

VARI and VALGI.

THESE are diffortions of the feet, and differ only with refpect to the fide to which the foot is turned; in the former, the foles of the feet being turned inwards, and in the latter, outwards: the curative intention is therefore alike in both. The complaint is fometimes very trifling, and feems to have been owing only to fome cramped pofition of the feet in the womb, and in

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Vari and Valgi.

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in that cafe, difappears before the end of the month. In other instances, there is evidently a contraction, if not accurtation of the tendons, which calls for confiderable attention. The remedy, is obvious enough, and confifts only in the proper application of a roller and paste-board splints, so as gradually to bring the foot towards its natural position, and in proportion as it inclines thereto, increasing the force and tightning the roller, every two or three days.

There is also another very common diftortion, to which no particular name, I be-lieve, has been given, in which the feet are turned upward towards the inftep : but the mode of treatment is alike in them all, and the cure will ufually be effected in a reafonable time.-The like eafy means, therefore, will generally be fufficient to remedy a contraction of the joints of the fingers, and various awkward positions of the toes, with which fome infants come into the world.

All thefe complaints may, neverthelefs, be fometimes more confiderable, and in fuch cafe, especially if neglected for many months, or even years, as they fometimes are, require the affiftance of some steel instrument, or irons, (as they are called,) which are properly contrived for thefe and other diftortions, as of the knees, &c. by Meffrs. Addifon, Sheldrake, and other trufs-makers; who feldom fail of bringing the parts into a more

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Vari and Valgi.

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more natural form, even in the worft cafes, whenever parents may think the complaint worthy of the time and attention that may be required.

THE END OF THE FIRST PART.



DISEASES of CHILDREN,

PART THE SECOND ;

CONTAINING

FAMILIAR DIRECTIONS

SD/PTED TO THE

NURSERY

AND THE

GENERAL MANAGEMENT OF INFANTS FROM THE BIRTH.

" La Mere veut que fon Enfans foit heureux, " qu'il le foit de dés apréfent, en cela elle " a raifon ; quand elle fe trompe fur les " Moyens, il faut l'eclairer."

Rousseau.

Ee 2

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GENERAL DIRECTIONS

FOR THE

PROPER MANAGEMENT OF INFANTS FROM THE BIRTH.

WHATEVER fplendor the actual treat-ment of difeafes may reflect on the fcience of medicine, it by no means comprehends the whole of its province: for prevention being in every cafe preferable to remedies, the medical art would be more imperfect than other fciences, were it devoted only to the latter. In the management of infants more efpecially, fuch a variety of other articles occurs subject to medical direction, that this little work would be peculiarly incomplete if confined merely to the cure of diforders. In a view, therefore, to fuch miscellaneous matters, and certain recurring affections too trifling to be ranked as difeafes, this fecond part is annexed ; and it is hoped, may contain every thing on which the most vigilant parent can

Directions for the Nurjery. 329

can wifh for information, without tiring her by enlarging upon trifles. In all matters of importance a becoming firmness has been adopted, but I have not equally infifted upon others, wherein the manners of a refined age cannot comply, nor have urged any peculiar modes which the generality may not adopt. Should any opinion be more obflinately maintained, it is, probably, in relation to the nourishment most adapted to newborn children; and this it may be proper to difcufs, previoufly to entering upon their general management, by confidering the cafe of infants intended to be reared without the breast, or brought up, as it is cal-

led, by hand. But it would carry me altogether beyond the limits I have affigned to this fecond part, were I to enter fo far into the inveftigation of the fubject, as to fet forth all the improprieties of that mode of training up infants from the birth. And I am glad to find by fome very recent examples among perfons of rank, that there is fomewhat lefs occafion for it, than there appeared to be fome years ago. It would be unpardonable, however, in a work of this fort, not to infift how inadequate every fubflitute for the breaft has been univerfally found; and therefore how proper it is, that every child fhould have it, and even be fuckled by its Ec 3 own

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own mother, where her health can fafely admit of it .- Reafon, inftinet, experience, all confpire to fupport this opinion; and whoever will determine to attend only to matter of fact, may foon be convinced of it. Nature herfelf points it out: all the nobler part of the irrational creation is qualified for it, and by inflinct it obeys-the human race alone, poffeffed of nobler powers, and rational difcernment, perverts thofe faculties to evade its dictates, and to invent excufes for refufing its claims. But puerile, indeed, are all the common arguments against it, in the greater number of instances; and herein Dr. Armstrong feems to have egregiously erred, for though, apparently, an advocate for fuckling, he has laboured for arguments to apologize for the fpoon and the boat, in too many inflances. It were eafy, perhaps, to produce as found arguments against eating more than once aday, becaufe fo many people become difeaf-ed from excefs. But not only is the breaftmilk the natural, * and most proper food for

* In fome very northern parts of the world, as those of Greenland, and the neighbouring country of the Esquimaux, the breast appears to be, in the frictest propriety of speech, the only food that nature has provided for infants; infomuch that, whenever a fuckling-mother happens to die, her infant is buried with her. Experience, one would hope, having demonstrated the mession of the hard and coarts

Every Mother in health

for infants, but fuckling alfo conduces to the eafy recovery of the mother; though fhe fhould not be able wholly to fupport her child by the breaft, or to continue fuckling fo long as the infant may require it.

Although from much experience I venture to give this opinion, I do, by no means intend to affert that every mother is able to fuckle her child even for the month, or would do well to attempt it; but I am, neverthelefs, equally fatisfied, that many are very well able who do not, and feveral who have only through fear been difcouraged from doing it, in two or three lyings-in, having afterwards been prevailed on to make the attempt, have gone on with it for feveral months, enjoyed better health when they fuckled than at any other part of their lives, and their children have thriven perfectly well.

Thus, befides the advantages derived to infants, there are evidently others refulting to the mother herfelf, and fome that deferve a particular notice. For, by this means, where due care is taken, painful inflammations and fuppurations in the breaft may often be prevented, as may be fairly concluded, not

coarfe diet which nature has there fo fparingly dealt out, it is effected an act of compafiiou to put an end to an infant's fufferings by plunging it into the fea. 332 ought to fuckle her Children.

not only from the rarity of fuch complaints in the British Lying-in Hospital, where almost every woman fuckles her infant, but frem the like authority of Dr. Nelfon, who reports, that out of 4,400 women who fuckled their children, only four had milk-fores, and that " thefe had either no nipples, or former fore breafts." Thefe advantages, if duly credited, one should hope, might tend to induce ladies of rank to fet the example, by performing this kindeft and most pleafant office, at least during the month. But it would be unjust not to add, that whenever they may purpose to assume it for a much longer time, they fhould determine to do it effectually, or they will but injure their children, as well as forfeit many of the advantages and comforts, which in a due execution of it, they would have a right to expect. It is poffible, I may not be thanked for urging fome parts of the above advice; but I am certain, I am doing my duty in giving it.

Hitherto, however, notwithstanding the the many encouragements often brought to the cars, and urged upon parents, that tyrant, Fashion, has prevailed over the good fense and natural feelings of many, whose maternal affection can be, in no other inftance, fuspected. Against fome, moreover, another complaint may be brought, who not only refuse to give nourishment to their tender The neglect of this is frequently

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tender and helplefs offspring, but whilft they, unneceffarily, commit this charge to a firanger, give up every other charge with it; and feldom vifit the nurfery, or fuperintend thofe they fet over it. It is from hence, that fo many errors in the point of diet, air, clothing, &c. &c. have infenfibly crept into the houfes even of fome, whofe rank in the world would otherwife have fecured to their children every advantage that a due attention to nature, or to art could point out.

Another important, and affecting confideration might be brought forward on this head, which I shall, indeed, only touch upon, as it calls rather for the pen of the philosopher than of a physician, I mean, the facrifice that poor women make in going out to fuckle other people's children, the fad confequences of which are often feverely felt by their own, through neglect or mismanagement, and especially for want of the breaft. Indeed no attention of the nurfe can duly compensate this loss; and only the most common substitutes for it can, in their forloin circumstances, be allowed them. This becomes a fource of evil, that, I fear, is not ufually thought of, and proves eventually the facrifice of many infants every year : a matter of much importance, indeed, to the public, as well as to the families immediately concerned. It is true, indeed, ladies of rank frequently do all in their

the source of many Evils;

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their power to counteract this too natural, and fatal confequence, by a careful attention to the forfaken infant; not only infifting upon a breaft being provided for it, but regarding it as a kind of foster-child : fo that, after generously preferving it through infancy by their charity and attention, they frequently follow it with their protection and kindnefs through life. Such charity, indeed, adds a luftre to elevated rank ; tho' perhaps, much lefs than this, from fome people, would be fhort of their duty. But it is not every family that is in a fituation to adopt this conduct; though I am forry to add, that too many who are not, neverthelefs, greedily adopt the fashions, and mimick the manners of the great, by more criminally and needlefsly refufing to fuckle, and abandoning that tender charge with which nature herfelf has entrusted them.

It gives me real concern to find occasion for fuch unpleafant reflections upon any part of the fex I fo much honour, and upon any ofmy fair and fensible country women, in particular. Neverthelefs, I cannot help fuspecting, that wherever fuch neglect does exist, whether in regard to fuckling, or superintending the management of their children, * and does not

* This feems to be the cafe at prefent in both regards, amongft the lower clafs of people in France: and that nation is therefore much indebted to the goodnefs

fome of which admit of no Remedy. 335. not arife from want of health, or from fome equally warrantable objection, it can be charged only on the depravity of the age, which infenfibly perverts the tafte, and corrupts the judgment of many who wish to do well. And depravity of manners, when once become general, has ever been confidered as the leading fymptom of a falling empire, and ought to be pointed out as far as it extends, by every friend to the community, at whatever hazard of giving offence, in every confpicuous inftance of it. Tacitus, the Roman hiftorian, complains of the degeneracy of Rome in his days, (though by no means its most degenerate æra,) lamenting that in former times, grave matrons attended to their children, as their first family concern, but now, fays he, they are intrusted to the care of some Grecian girl, or other inferior domestic .- It is no finall fatisfaction to me, however, to declare, that in this country there is no ground for a general complaint on this head; there are examples of the first magnitude of a nobler conduct, and one at the head of all, which were it copied

goodnefs of the Monarch, who is now actually making folicitous inquiries through Europe to difcover the beft fubfitute for the breaft. Should the method hereafter recommended be, amongft others, adopted, its claim will foon be determined ; and I venture to hope, to the advantage of the rifing generation in that kingdom, and elfewhere. 336 Great Attention to Infants is neceffary pied, without exception, in domeftic life, would prove the glory of the prefent day, and a bleffing to the rifing generation.— May the time haften when it fhall be univerfally followed by her inferiors, whilft I attempt to point out as far as my obfervation has extended, the most prudent means of executing this important branch of the female duty.

It may not be amifs, at the opening of the enfueing obfervations to remark, that the demand for the multifarious directions here offered, as well as all those given by other writers on the management of children, arifes from the false reasoning of those to whose care the infant state is frequently intrusted; who instead of being guided by the fober distates of nature, have adopted the rules of art, falsely so called, or have followed the wild fancies of anile superstition.

On the other hand, the various tribes of the irrational fpecies act in a thoufand inftances more prudently than we do, and being uniformly guided by inftinct, are led implicitly and fafely through all their operations. Many quadrupeds, fifh, and even reptiles feem to know what is proper for them as foon as they come into exiftence, and have ftrength fufficient to reach after it. In other inftances they are guided by the parent, who feems to adjoin fome degree of 2 knowledge

from the Birth.

knowledge acquired by experience, to the inftinct with which it is naturally endowed. Man, on the contrary, defigned to be the pupil of obfervation, has fearce any innate difcernment; and confequently his infant race pass through a long period utterly helplefs, alike divefted of ideas to guide, and of strength to manage for themselves. But to the parent is imparted both ; whofe province it is to judge for them, and actually to put into their hands or mouths, whatfoever they may stand in need of. When the parent, therefore, forfakes the paths of fimplicity, and lays down arbitrary rules, the refult of falfe science, instead of patient experience, or miftakes the clamor of fashion for the voice of nature, confusion and difease must be the unavoidable confequence.---Awaken-ed by thefe, man is loudly called upon to return to the fimplicity of nature, and the refult of difpafiionate obfervation. It is this will be our aim in the work before us, whereever danger and deviation are connected; affured, that the experience of the most ju-'dicious and fuccefsful among parents and practitioners, will applaud the defign, and confirm the generality of our obfervations.

To this end, let us imagine an infant just born, * who, doubtlefs, at this moment, F f calls

* No convenient place offering in the former parts of this work, for a few hints relative to infance 338 The Means of recovering Infants calls for our beft attention. And first, it may be observed, that it ought not to be exposed to any thing that may violently, or too fuddenly affect the fenses. On which account,

fan's apparently *fill-born*, I with here to fuggeft the refule of an experience that has been attended with more fuccefs than might have been expected.

I have, indeed, both at the hospital and elfewhere, met with many inftances of children born with very little, and others without even the finallcft appearance of life, fome of whom have remained entirely deflitute of any fign of it, for more than a quarter of an hour, and yet have been happily reftored. I pretend to little or no fkill in this bufirefs not generally practifed, and can fearcely guefs to what to attribute this forcefs, unlefs it may be an unwearied affiduity and perfeverance in my attempts, wherever there are no certain figns of death, till I conceive nothing is poffibly to be expested from t i m. And this has fo often fucceeded, that I h ve been tempted to think its importance may peffibly, not have been fufficiently attended to by every practitioner. I reft this prefumption, not only upon fome fortunate events where I have had little or no previous ground for hope, but where ethers had, in some instances, abandoned it. A certain fleady perfeverance in our attempts to preferve life, is, indeed, not only a duty practitioners owe to the public, fo long as the leaft hope may remain, but oue foccefsful attempt is an abundant recompense for many failures ; effectially, as I imagine we thall rarely fail when there may be the least politive ground for hope of a favourable isfue.

As to the means they confit only of warmth, $dy \rho crs$, ftimulants, and effectively blowing forcibly into the tracks a, or wind-pipe.

The

who are apparently still-born. 339

account, Moschion and Albinus have well advised, that it should not be exposed either to great heat or cold, nor a strong light, nor odours of any kind, however grateful to adults; the unpleasant effect of which Ff 2 are

The ordinary ftimulants are the fmoke of lighted brown paper, or tobacco; juice of onions; Scotch fnuff; frictions with hot cloths, and brandy; ftriking the nates, and the foles of the feet: ftimulating the nofe, and upper parts of the throat with a feather ; with every other fimilar mean calculated to excite a firong effort, especially that of crying ; to which our attempts must principally, and ultimately tend. On this account, I believe, no great benefit is to be expected from firoking the blood along the chord, or immering the after birth in warm water; the fetal life being extine, the recovery of the child will depend on the blood paffing freely through the lungs, which it cannot do till the child is brought to breathe freely and forcibly; the continuance of which alfo is never secure, till it begins to cry. To thefe ends, I have depended above all upon blowing into the month, which I am fatisfied may be more effectually done by the mouth of the affinant being placed immediately upon the child's, thea by means of a blow-pipe; at the fame time, prever ting a premature return of the air, by the fingers of one hand placed at the corners of the mouth, and those of the other on each fide of the nofe. But I have fometimes imagined, that I might attribute much of my fuccels not only to the continuance of this, but to the manner of doing it, by attempting to imitate natural refpiration, by forcing out the air I had thrown in, by a ftrong preflure against the diaphragm and breaft : thus blowing in, and alternately pretfing out the air, for a lorg time together, CENTING

340 Of the first washing of Infants.

are fufficiently manifested by the infant it-felf.

The attention will next be called to wafhing and dreffing it, together with other little

omitting it only now and then, to make use of some of the abovementioned means: which latter, however, can do very little till the child begins not only to gafp, and that with fhorter intervals, but alfo to breathe in a pretty uniform manner. At this time, should the child not be disposed to ery, which is frequently the cafe, the nates and foles of the feet should be stricken forcibly and repeatedly; and this fuiling, as well as the application of ordinary flimulants to the nofe, and irritating the wind-pipe, I think nothing is fo likely to fuecced as a tobacco, or other flimulating clyster, and patting a little Scotch finaff up to the nofe, which latter if it induce fneezing, will foon be followed by a ftrong ery, and the child be with certainty reflored.

Amongft other means, that of warmth was recommended; to which end, the infinit flould be entirely covered with hot clothes, which flould be renewed as faft as they become cool; or the body may be immerfed in a tepid bith, and be well rubbed all over: the chord may likewife be fuffered to bleed a little, efpecially if the face or body do not foon acquire the natural coloar—but this ought feldom to be done, nor the chord be divided as long as any pulfation is to be felt in it.

To thefe means may be added the cautious use of electricity, which appears, *a prtori*, as likely to be faceefsful in thefe, as in any other cafes to which it has been applied : but I have never been in a fituation to make trial of it, or I certainly fhould, as I once knew a child happily recovered by it, after being laid out for dead, for near two hours, in confequence of a fall from a two-pair of flairs window. Of the first washing of Infants. 34Vthe offices fuited to the occasion. And this first washing is of more importance than is usually imagined, being amongst the *little* things which are often overlooked by writers and others, (and by fome thought of no Ff 3 confe-

But fhould thefe feveral means fail, as a laft refource, a very different kind of ftimulant may be tried, and inflead of laying the infant afide in a warm flannel, it fhould be exposed to fudden and fevere cold, which I remember once to have fucceeded after the life of the child had been defpaired of.

It will be prefumed, I dare fay, that fuch a ferupulous attention is not defigned to be inculcated in every iustance of apparently still born, infants, but principally where the death of the child may not only not be certainly afcertained, but there has previoufly been reason to expect it would be brought alive into the world .- The great importance, however, of the subject, it is hoped, will be a sufficient apology for the length of this note; and as the attempt to reftore infants to life has always been a most pleafing employment, to myfelf, the defire of being an occafion of inducing others to a perfeverance in the ufe of the like means, emboldens me to risk the cenfure of any who may deem it prolix or fuperfluous. -- I fhell just add, that among it other fymptoms of fome irrecoverable injury a child may have fustained in the birth, is that of a discoloured and often fetid, or bloody water forcing out of the nofe, after the lungs have been two or three times arificially inflated. Under these circumstances, I have very rarely feen an infant at all revived; but I have twice lately fo far facceeded as to animate a child fuffici-. ently both to breath and to cry ; but they afterwards. lay in a moaning flate for four or fix hours, and then expired.

342 Of the first wayling of Infants.

confequence) ;* l'ut it is not every little thing that may fafely be neglected, or illdone. In regard to poor people, efpecially, and infants born in hofpitals, and other crouded apartments, the importance of proper washing is greatly increased, the foulness left upon the ikin being a remote caufe of fome dangerous endemic complaints ;+ as a preventative whereof, the washing ought to be repeated for feveral days, with light frictions of the fkin. Some infants also are covered much more than others with a thick, vifcid matter, which cleaves fo fast to the tkin, that it is not eafily washed off, which there is, however, another reafon for doing, as it would obstruct perspiration, which can never be duly performed, where the fkin is lest any wife foul. On this account, the nurfe should be very attentive to this first concern of her infant charge, and whatever wash she may make use of, it should always have foap in it, and the child be well rubbed, efpecially under the arms, in the hams, and groins, where this mucus is apt to adhere : and to this end, it would be better fhe made use of no kind of greafe, which tends to ftop up the pores, and fo prevent perfpiration; or that she be, at least, very careful the

* Dr. Hamilton.

+ See Monf. Baumes, on the Jaundice and Mef. nteric-fever. Partial Cold not likely to be beneficial, 343 the greafebe afterwards well wiped off. In the fame view, it were well if the washing were repeated for two or three days, which it is not improbable might tend to prevent the red-gum and other fimilar affections of the skin, with such other complaints as may arise from the suppression of infensible perfpiration.

After a while, and fometimes the next day, most nurses wash the child with cold water; a practice highly extolled by Dr. Armstrong, as well as many other practitioners. But though no one can be a greater advocate for every thing that is bracing than I am, I cannot approve of this fubftitute for cold-bathing, as it is called; at least, as an indifcriminate practice. The cold-bath acts on a quite different principle, and I could with almost every child, especially those born in London, were bathed at three or four months old, (if the feafon of the year and other circumstances should admit of it)* which I am certain would prevent

* To this end, particularly, a child fhould not be coftive, feverifh, nor have any internal obfructions.—*Monf. Le Febure de Villebrune* in his tranflation of this work into French, has added a chapter pon Baths; in which he ftrongly controverts the idea of the probable good effects of cold bathing, and even makes ufe of a long chain of arguments againft it, deduced, indeed, from an ingenious theory, and fupported by quotations from the ancients; who

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vent, as well as remove many of their complaints.* But to fee a little infant of a few days old, the offspring perhaps of a delicate mother who has not even ftrength to fuckle it,

who practifed, however, in a different climate .---The fhortest, and, perhaps, the best reply to this fpecious reafoning, might be given in the mode of Diogenes to Zeno, whofe arguments against the poflibility of Motion, Diogenes laconically refuted, by haftily getting up, and walking across the school. We have, in like manner, only to point to the numbers of children and young men, who from very weakly infants, have been rendered frong and healthy, merely from a prudent nfe of the cold b th; and may defy any man to produce the like inflances of its opposite effects when made use of with the cautions which every powerful remedy requires. The Spartan women, likewife, afford us fufficient evidence of the falatary creets of cold bathing, notwithflanding the comments made upon the women themfelves, by Aristotle.

* From the furpriting good effects that fometimes follow the use of cold-baths, I do not wonder that Priefts, in times of ignorance, have been known to account them holy, and dedicate them to fome Saint; to whose influence certain cures were attributed.

The falutary operations of the celd-bath are, however, eafily accounted for, from its promoting infenfible perfpiration, and rendering that fecretion lefs readily affected by the impression of the external air.

It may be known to agree with children, when they come out of it warm, lively, and their firength increases on the use of it. On the other hand, if they come out cold, difpirited, and seem rather to lose firength, it nay be as often prejudicial. Cold-bath a fafe and falutary Remedy. 345 it, washed up the loins and breast in cold water, exposed for feveral minutes, perhaps in the midst of winter, (when children are more

But I must observe, that these unpleasant effects are frequently owing to an improper use of bathing, and for want of making a very obvious diferimina-tion in the habits of body of different children.—For the tender and delicate, not only fhould a good quantity of falt be put into the bath, but the water should also at first be a little warmed, and children be brought only by degrees to endure it quite cold, which they will not by this means be the lefs likely to do: or should the water never be perfectly fo, the advantages of cold-bathing will, neverthelefs, be confiderable;* though Dr. Hunter and others have thought differently. It is not, I apprehend, merely from its colducis that the benefit of bathing arifes, but is rather from the fubject being fuddenly immersed into a very different medium, (if so be. that medium be not actually warm) in which the contact of the external air is taken off during the immersion, and is as suddenly restored on his being taken out. By this means, the blood is alternately pufied forward into the extreme veffels, and fuddenly repelled to the heart (in proportion to the colonefs of the water) and fuffers an advantageous attrition against the fides of the veffels. The small passages are rendered previous, and the contractile power of the heart is indreased, as well as the muscular fibres proportionally frengthened. The falt added to the water pretty certainly prevents taking cold, whilft it adds to the ftimulus on the fkin, and has a more falutary operation on the pores.

For

* Hippocrates speaking of bathing, cautions against the two extremes of heat and cold.

D. miquid. Ufu.

346 An effectual mean of Cleanlinefs.

more inclined to difeafe than those born in fummer), itself in one continued fcream, and the fond mother covering her ears under the bed-clothes that fhe may not be diftreffed by its cries; has ever ftruck me as a piece of unneceffary feverity, and favors as little of kindness, as plunging an infant a fecond or third time, into a tub of water, with its mouth open, and gafping for breath, in the old fashioned mode of coldbathing : both of which often induce cramps and pains in the bowels, and weaknefs of the lower extremities, but rarely an increase of ftrength. It furely cannot be amifs, in winter time at least, to take the cold off the water for the few first days, which it has been observed, will be useful in other refpects; and whenever cold water is made ufe of, it will be quite fufficient to walh the child as far as a regard to cleanlinefs may require,

For the fake of fome readers it is neceffory to obferve, that a child is to be put on'y once under the water at each time of bathing, and to be taken out as foon as it is poffible. It fhould be received in a blanket, and be wiped dry with a cloth in the moft expeditious manner; and as foon as it can be drefsed, fhould partake of fuch exercife as may be beft fuited to its age: but by no means put into bedy. There will need no great attention to its being wiped perfectly dry, as a child will be lefs liable to take cold from a few drops of falt-water being left upon it, than by being long uncovered in fome parts of its body, in an over-caution to wiping it dry. Chaffings and Excoriations

require, which will always be the parts expofed to the worft kinds of galling and excoriation : on which account cold water is certainly ufeful. With this view, befide the groins, and contiguous parts, the armpits, folds of the neck, and parts behind the ears, being alfo difpofed to flight chaffings, may be occasionally washed in like manner, and if the difcharge be not checked by it, they should be dusted with a little hair-powder, or powder of cerufe, or a little white vitriol may be added to the water; which if the excoriations are not very confiderable, will generally heal them very foon : should these fail, they may be dreffed with the red drying ointment. * In a very acid flate of the flomach however, during the month, particularly where there is a purging with very green flools, the parts covered by the cloths are often infelted with a troublefome excoriation, (called intertrigo) and whilft that ftate continues, will not be healed by any drying applications. I have found nothing fo pleafant, and ufeful in this cafe, as covering the parts with a thin fkin found upon the veal kidney, which foftens, and cools them, till the caufe of the complaint may be removed by the ufe of proper

* This is an excellent remedy in a thousand inflances, and has very undefervedly fallen into difeffecm. 348 Seldom prove of much Consequence.

per abforbents. There is a mixed affection of this kind, however, in which thefe parts are not actually excoriated, but are very hard and fwollen, as well as painful and inflamed; and the affection feems to be kept up by the acrid nature of the excretions, though not originally caufed by it. In this cafe, inftead of washing the parts with wetted fuller's earth, gruel, or greafy mixtures, an embrocation of elder-flowerwater, with as much boiling milk as will render it moderately warm, has been immediately efficacious. But one grand mean of keeping children from chafing is to preferve them very dry and clean ;* articles of fo much importance, that I should have infifted much 4

* To this end, poor people need to be admonished, that all the cloths should be properly boiled every time they are walked; a circumstance fuch people are apt to neglect .- Anoth r error worthy of remark in this place, is, that of wearing a pilch (as it is called); an old fathion still too much in use, and contributes not a little to make children weak : it being originally deligned to be worn only for the few first weeks after birth, but is often continued for as many months. It can answer no possible cad but that of fiving a little trouble, fince inftend of keeping children dry and clean, it does directly the contrary; for if it has received any wet through the ufaal cloth laid under it, it ought itfelf to be changed as often as the other, or must certainly be damp and uncleanly; whilft by heating the loins, and lower limbs. it has a manifest tendency to relax, and dispose infants to become rickety.

Remedies for the Intertrigo. 349

much longer upon them, if I had not already far exceeded the bounds I had intended. Suffice it therefore to fay, that it is next to impoffible a child should thrive or be healthy, if these last articles are not striftly attended to, which, together with those of proper food and exercife, are, perhaps, the principal ones in which the children of poor people are at a great difadvantage, and which become the constant source of rickets and distortions among them. Let not these ill effects fall on the children of those whom misconduct alone can expose to them.

I shall just mention here another useles operation practifed by nurfes, that of forcing out the milk from the little breafts of newborn infants. Some children a-day or two after they are born, will have the breafts exceedingly tumid, hard, and painful, containing fomething like milk ; and nurfes imagine it to be a great kinduess to milk it out as it is called. But I have often been grieved, to fee a nurfe rudely rubbing, and even fqueezing the breafts, already in a ftate of inflammation, and continuing it even for fome minutes, though the child's cries might convince her fhe is putting it to pain. In the cafe of inflammation, a bit of bread and milk poultice is the properest application, but if the part be not inflamed, it can want nothing at all; though if it be thought fomething Gg

350 Milk in the breasts of Infants, Sc.

fomething ought to be done, a little oil with a drop or two of brandy may be gently rubbed in, or fmall pieces of the lithargeplaifter may be applied, and lie on the parts till they fall off of themfelves.

Having confidered these neceffary prepations, I proceed to offer a few remarks on the prevailing errors in their *dress*.

Upon the first fight of a new-born infant, every one is ftruck with the idea of its weaknefs and helpleffnefs; and we often take very improper methods of strengthening it. It is defigned to be weak and tender in this infant-state, as is every other object around us.*-Take a furvey of nature, from the first opening leaves of the vernal flower, or the tender foilage of the fenfitive plant, to the young lion, or the elephant; they are all in their feveral orders, proportionally weak, and cannot exift without fome exterior fupport. But they ftand in need of nothing but what nature has prepared for them. If feed be caft into a proper foil, it wants only the furrounding elements to enfure vigour and maturity. So if the tender

* Nous naiffons foibles, nous avons befoin de forces; nous naiffons dépourvous de tout, nous avons befoin d'affiftance, nous naiffons flupides, nous avons befoin de jugement; tout ce que nous n'avons pas á notre naiffance, et dont nous avons befoin etant grands, nous eft donnè par l'education.

ROUSSEAU.

they only want attention and tenderness.351

der infant be born of healthy parents, and at its full time, it is ufually fufficiently ftrong; proper food and nurfing are the elements whole foltering influence it re-quires :----if it have thefe, it will need no-thing more.

It is true, it is very weak, but is it therefore to be tight rolled, under the idea of fupporting it, and giving it ftrength? It is a bundle of tender veffels, through which a fluid is to pafs, undisturbed, to be equally diffributed through the body, and which are therefore furrounded by a fost medium, capable of yielding to the impetus of their contents. Hence we cannot but conceive, how injurious any great preffure must be to fo delicate a frame, which before birth fwam in a fost fluid. But befides this, the infant requires freedom and liberty on other accounts. The state of infancy and childhood (as Dr. Gregory obférves) is impati-ent of restraint in this respect, through " the restless activity incident to youth, which makes it delight to be in perpetual motion, and to fee every thing in motion around it."

Let us again advert to the irrational fpecies, whofe more fagacious conduct fo often difgraces our own. There is no occafion on which they do not feem to confult propriety; and having a right end in view, they as certainly accomplifh it, and always in

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352 Errors in their first clothing

in proper time—Doth a little bird defign to prepare a lodging for her young; it is fure to make choice of the fittelt fituation, whether to defend them from dangers, or obtain the most convenient fupply of their wants; if to this end it be neceffary to conftruct the neft of rough and ftrong clay, it is ftill lined with down: the young lie warm and fecure, but they lie at their eafe.

I am not ignorant, indeed, that for many years paft, the very ancient tight mode of drefling infants has been difcontinued, for which we are probably greatly indebted to Dr. Cadogan. It is certain alfo, that for the last twenty years, the fashion recommended by him has been improving; but there is yet room to go forward, and were every tender parent in this country thoroughly fenfible of its advantages, it would foon become fashionable to fee children as much at their eafe on a christening-day, as they are when laid at night in their beds. And I may be permitted to add here, what every modern practitioner has adverted to, that were strings, in almost every instance, fuftituted for pins, phyficians would feldom be at a lofs to account for the fudden cries and complaints of infants, which are too often

productive of future evils.

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ten produced by this needlefs part of their drefs.*

Nature knows no other use of clothing but to defend from the cold,-all that is neceffary therefore for this purpofe, is to wrap the child up in a foft loofe covering, and not too great a weight of it; to which ornaments enough may be added without doing mifchief. And had this matter been always wholly left to the judgment of parents, this is, probably all that would have been done, but the business of dreffing an infant is become a fecret, which none but adepts must pretend to understand. The child itfelf, however, discovers to us the propriety of fuch clothing, by the happiness and delight it expresses every time it is undressed, and rubbed with a foft hand. Whereas the art of dreffing has laid the foundation of many a bad shape, and what is worfe, of very bad health, through the greatest part of life .---It is fcarce neceffary in this day, to add any thing in this place in commendation of cleanlinefs, unlefs it be to counteract a vulgar Gg3 notion

* A gentlewoman lately informed me, that one of her children, after long and inceffant crying, fell into firong convultions, which her phyfician was at a lofs to account for, nor was the caufe difcovered till after death; when on the cap being taken off (which had not been changed on account of its illnefs) a fmall pin was difcovered flicking up to the kead, in the large *fontanelle*, or mostle. 354 Observations on the Non-naturals.

notion, familiar only to common people, that a frequent change of linen has a tendency to weaken new-born children; an abfurd idea, that has not the fmalleft foundation in reafon or fact.

The tender infant being dreffed, and having undergone fuch other little difcipline as has been mentioned, is ufually fo far fatigued by it, as foon afterwards to fall into a found fleep. We fhall therefore leave it a while to be refrefhed, whilft I endeavor to conduct the fond mother through the various other duties it calls for from day to day, till it happily arrives at an age free from the peculiar dangers of infancy.

In the purfuit of fuch a plan, we meet with a variety of mifcellaneous articles, and though many of them are not of apparent magnitude in themfelves, are in their confequences highly worthy of notice ; which that they may be thrown into fome kind of order, may all be very well claffed under the feveral heads of the *Non-naturals*, as they are called. Such are air, meat, and drink ; fleep and watching ; motion and reft ; retention and fecretion, and the paffions of the mind ; a due attention to which, may prevent many of the evils incident to this tender age.—The first of thefe was faid to be Air.

The great importance of this has been fet forth when fpeaking of the difeafes of infants.; Cautions with regard to air. 355

fants; I shall here in a more particular way observe, that the age, constitution, and other circumstances of the child, and the feafon of the year, ought always to be ta-ken into confideration, that being highly proper on one occafion, which would be very detrimental at another. In general it may be faid, that warmth is friendly to very young infants, but they fhould, neverthelefs, be inured gradually to endure the cold air, which is abfolutely effential to their health. I cannot therefore agree with Dr. Armftrong, who thinks the rich lofe fewer children than the poor, becaufe they are kept warmer. On the other hand, it was well faid by one, that "a warm nurfery fills a cold church-yard." Much caution, indeed, is neceffary on this head, in this unfettled climate, and evinces the necessity of parents fuperintending those to whose care they intrust infant-children, fince nurses are often indifcreet in keeping them too long in the air at a time, which is a frequent occasion of their taking cold, and deters many parents from fending them abroad fo often as they should. Another, and a worfe, as well as common fault, of nurses and servants, is, that of ftanding ftill with children in their arms in a current of air, or even fitting down with other fervants, and fuffering children who can run about, to play at a little distance by themselves, fit down on the grafs 356 Changes of clothing.

grafs, and fuch like ; the confequences of which are often a long confinement to a warm room, and either a prohibition againft going out fo much as they ought, or a frefh cold owing to fome of the like irregularities. And I may here obferve, the lighteft fymptom of cold (which is alfo often taken in the lying-in room during the month,) is that called the *fnuffles*, or ftoppage of the nofe, and in general requires nothing more than a little pomatum, or *pomade divine*, to be put to the noftrils when the child is laid in the cradle ; or if this fail, a little white vitriol may be diffolved in rofe-water, and the bridge of the nofe often wetted with it.

It will be advifeable, in order to inure infants to the air, that they be flort-coated as early as the feafon of the year will permit ; their drefs flould be ftill loofe and eafy, and they may continue without flockings even for two or three years, and boys till they are breeched. As to this change, I think, it had always better be made in the beginning of the winter, than in fummer, as the drefs upon the whole is warmer, efpecially about the cheft, which from having been open for three or four years, it feems rather ftrange to cover, all at once, at the beginning of hot weather.

But though I have faid children would be as well without flockings, for a confiderble time, I must remark, that circumstances Died of infants.

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are always to be taken into confideration. Mutatis mutandis* should not only be the motto of phyficians, but of common life, and we fhould be guided by it in regard to all general rules. For want of this caution in the present instance, tender children suffer exceedingly in fevere winters, and are diftreffed with chilblains merely for want of proper covering to their tender limbs. I have feen a child of four or five years old, the daughter of people of fashion, (who I know will pardon my mentioning it) whofe legs were covered with chilblains quite up to the knee, and yet the lady could not be prevailed upon in time, to fuffer flockings to be put on, becaufe strong and healthy children are thought to be better without them.

The fecond article under the head of Non-naturals refer to meat and drink, and is worthy of ample difcuffion, having as yet been confidered only in relation to the expediency of breast-milk, where that may anywife be procured.

In the first place it may be remarked, that although an infant be fuckled by its own mother, it can certainly have no real need of any other food, till the time nature will bring milk into her breast, fupposing the child be laid to it in proper time; which, doubt-

* Conduct should be directed by Circumstances.

358 Need on Food for Some Hours.

doubtlefs, ought to be as foon as the may, by fleep or otherwife, be fufficiently refreshed to undergo the little fatigue that an attempt to fuckle may occafion. This method, however unufual with fome, is the most agreeable to nature, and to obfervations on the irrational fpecies, who in many things are the very beft guides we can follow.* By means of putting the child early to the breait, especially the first time of suckling, the nipple will be formed, and the milk be gradually brought on. Hence much pain, and its confequences will be prevented, as well as the frequency of fore nipples, which in the first lying-in, have been wont to occasion no inconsiderable trouble. But should this, or even an abscess take place, they are far lefs diffreffing under proper management than has been ufually imagined +. However, should the mother be unable to fuckle, and a wet-nurfe be engaged, there can be no harm in putting the child to the breast, after it has taken a dofe or two of the opening medicine; or fhould it

* This fubject is largely and elegantly treated by Dr. Gregory, in his Comparative View, before quoted.

+ See a Treatife upon ulcers beforementioned; in which the *milk-abfeefs*, and *fore nipples* are fully confidered, and a fuccefsful, and eafy method of treatment pointed out. Heavy food Improper.

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it be brought up by the hand, and not eafily kept quiet, a fpoonful or two of watergruel, with a little Lifbon fugar, may be given for this purpofe, which will ufually fet it afleep; after which it will be ready for whatever culinary food fhall be found proper for it.

And on this article, a vaft croud of abfurdities open upon us at once ; and many of them with the fanction of cuftom and authority. I shall first advert to thickness of the food : and it has, indeed, been matter of wonder, how the cultom of fluffing newborn infants with bread could become fo univerfal, or the idea first enter the mind of a parent, that fuch heavy food could be fit for its nourishment. It were well if the fond mother, and all well inclined nurfes had more just ideas of the manner in which we are nourifhed; and efpecially, that it is not from the great quantity, nor from the quality of the food, fimply confidered. They may furely be led to conceive, that our nourishment arifes from the use the stomach makes of the food the body receives, which is to pafs through fuch a change, called digestion, as renders it balfamic, and fit to renew the mass of blood, which is daily wasting and confumed. An improper kind, or too great a quantity taken at a time, or too haftily, before the ftomach has duly difpofed of its former contents, prevents this work

360 Milk the most proper food.

work of digeftion, and by making bad juices, weakens inftead of ftrengthens the habit; and in the end produces Worms, Convultions, Rickets, King's-evil, flow Fevers, and *Marafmus*, or general Confumption.

Nature, it should be confidered, has provided only milk, for every animal adapted to draw it from the breast, and that of women is certainly the thinneft of them all; but at the fame time, far more nutritive than bread. It is true, bread, as it requires more digestion, will lie longer on the stomach both of infants and adults, and hence, probably, because it fatisfies the prefent cravings, it has been conceived to afford a greater proportion of nourifhment; though mixed up only with water, as it too frequently is, it is far lefs nutritive than milk. Children ought to be frequently hungry, and as often fupplied with light food, of which milk is really the most nutritive that we are acquainted with. This could never be doubted of, but from its paffing fo quickly out of the ftomach; on which account, indeed, though not the properest food for adults, employed at hard labour, and many hours from home, it is the fittest of all for the more fedentary life of a tender infant, who cannot get that nourifhment from bread or other folid food, of which the ftomachs

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Bread improper for Infants. 361

of adults are capable. It must have been for want of attending to this confideration, that Dr. Armstrong has faid fo much in favour of bread and other thick victuals; which, by the bye, he began to make use of for his own children (from its success in whom he has ventured to recommend it,) only at the age of fix or feven months; a matter very different from stuffing an infant with italmost as soon as it is born. For every thing the stomach cannot digest, it has been faid, may be justly considered as a poison, which if not puked up, or very foon voided by stool, may occasion fickness, gripes, what are called inward fits, and all the train of bowel complaints, which may terminate in one or other of the evils just mentioned.

Milk itfelf is produced from food taken in by the mother, and is the richeft part of it. It is in her ftomach that the aliment is diffolved, or digefted, which by a combination of powers in the *chylopoetic vifcera*, or parts preparing the chyle, is fo far animalized as to be converted into a kind of white blood; from whence it has been obferved, every animal body is daily recruited. Hence it is very apparent, that previous to an infant having acquired ftrength enough to convert folid food into this wholefome chyle, or white blood, the parent, by this wife fubftitution in nature, has previoufly ac-H h complifhed 362 Instance of an Infant

complifhed this work for the infant fhe is to nourifh.*

It can fcarcely be improper before I quit the article of fuckling, to relate a recent inflance, and a remarkable one out of many, as a proof of the great degree to which infants may pine for the breaft, even to the great hazard of perifhing for the want of it, where the real caufe of the difeafe is not fufpected.

This infant was very healthy when it was three months old, and was then weaned on account of the illnefs of the wet nurfe; but foon afterwards ceafed to thrive, and had continual bowel complaints. At the age of nine months I was defired to vifit it, and was informed that it flept very little, was almost inceffantly crying, and had for many days brought up almost all its food; was become very rickety, and had all the appearance of an infant almost flarved. It had made trial of almost every kind of food, except the breaft, and had been many weeks under

* Whether the parent be able to fuckle her own child, or that office be performed by a wet-nurfe, is not here particularly confidered. The defign is only to prove that milk is in general the moft proper food for an infant. Whether that be prepared by its own mother, a nurfe, or even by animals, as the cow, or the afs, is equally to the purpofe; where the former cannot be had, the beft, and inoft natural fubfilitute, fhould be provided. pining for want of the Break. 363

under the care of an experienced apothecary; was conflantly in a flate of purging, and feemed to have been just kept alive by art.

On the firft fight of the child, and upon the very face of this account, it was very evident, that the infant was not nourifhed by the food it received, and that the complaint lay wholly in the firft paffages. But reduced as it was, I had little expectation from medicines, and therefore gave as my opinion that either the child ftill pined for the breaft, in which cafe, I doubted not, it would take it, though it had now been weaned fix months; or that it ought to be carried immediately into the country, and be fupported for fome time only upon affes milk, or perhaps be fed, now and then, with a little good broth.

My advice being taken, a good breaft was procured, which the infant feized the moment it was put to it, and after fucking fufficiently, foon fell alleep for feveral hours; waked without fereaming, and took the breaft again. It is fufficient to add, that the child ceafed to puke or be purged, and recovered from that hour; and after fucking eight or nine months longer, became in the end a fine healthy child.

To return; I am free then to lay it down as an axiom, that milk ought to be the chief part of the diet of Infants for a certain time, H h 2 whether

364 Substitutes for Breast-milk.

whether it be breaft-milk or any other; I might perhaps fay ninety-nine out of a hundred. Exceptions, I believe, there may be, but much fewer children would perifh if no exception were to be made, than by abfurdly rushing into the contrary extreme. But fuppofing a very firong child, at the end of the month, really not fatisfied with milk only, and always craving the moment it has been thus fed, it, doubtlefs, may have a little boiled bread added to it, two or three times in the day; but I fhould be very cautious how I extended it farther.* In the cafe, however, of an infant at the breast, if it be always craving as foon as it is taken from it, previous to allowing a more folid food, the quality of the nurfe's milk, as well as the ftate of her health fhould be inquired into, and the milk be changed if its goodnefs be fufpected. Perhaps where bread and milk is allowed, whether at a very early or a later period, it would be an advantage to boil a piece of roll, together with the upper cruit, in a good

* "In Italy, Holland, Turkey, and through the whole Levant, children are rarely allowed any other food than the breaft-milk, during the first year." BUFION.—In fome extreme northern climates, we know they can have no other food, for a much lenger time, and yet, there, the death of an infant is as rare an event as that of a fackling mother. Modes of feeding.

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good deal of water, till it is very foft; by which means the bread will part with fome of its acefcent quality: the water fhould then be ftrained off, and the bread mixed up with fome milk, which ought to be boiled if the child is very young, or inclined to a purging.

It would, I perceive, lead me beyond all bounds to enter farther into this matter; and I fhould not, indeed, have faid fo much on the fubject, had I not had it' much at heart to perfuade those whose affections would ever lead them right, were their judgments not previously perverted.—I fhall only add, that infants certainly ought not to be fed lying on their backs, but fitting upright; as they will in this position fwallow their food more easily, a: well as more readily difcover when they shall have had enough.

If Milk be the proper food for infants brought up by hand, the next inquiry will naturally be, what milk is the beft? and what is the fitteft inftrument for feeding with? And herein it is with great pleafure I acknowledge my obligations to Dr. Hugh Smith, for his ingenious contrivance, fet forth fome years ago in his judicious treatife on the Management of Childron, in a feries of letters addreffed to married women. The milk he likewife advifes, is cow's milk in preference to all others; and I with to H h 3 refer 366 The Bubby-pot the most natural

refer the inquifitive reader to the reasons the Doctor has given, to which I can add nothing but my own experience of their validity. To the milk, either from the birth or a few weeks afterwards, (but I think in general the fooner the better) should be added a fmall quantity of a light jelly made from hartfhorn fhavings, boiled in water to the confiftence that veal broth acquires when it has flood to be cold.* The defign of the jelly is obvious, and rational, at once calculated to render the food more nutritive, as well as to correct, in fome measure, the acefcency of the milk; this quality being thought to abound in the milk of different animals, in proportion to the quantity of vegetables on which they feed.+ And the milk of quadrupeds, we know, is produced from vegetable juices only, whilf breaftmilk is formed by a mixture of animal and vegetable food. A little Lifbon fugar may be

* There is fometimes a difficulty in making this jelly, on account of the hartfhorn being bad; thofe who fhave it, often mixing with it the fhavings of trotters, which may, however, be diffinguished by their brittlenes. If the fhavings are good, two ounces of them boiled very flowly in a quart of water to a pint, will make the jelly of a proper confiftence.

+ See Dr. Young, De Natura et Usu Lastis, in diversis Animalibus. that hath been contrived :

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be added to this compound of jelly and milk, if the child be not inclined to a purging, or in that cafe a little loaf fugar; but the lefs of either the better. It will be proper to have the milk and jelly warmed feparately, and no more at a time than may be wanted; when it fhould be put into the fmall pot Dr. Smith has contrived for the purpofe, which must be very carefully cleansed and scaled, at least once every day, and the fpout be thoroughly rinfed, left any four curds should flick about it; and to this end, it may be convenient to be provided with two.* At first the milk ought to be boiled, to render it lefs opening, but when the child is feveral months old, or may chance to be coftive, the milk need only be warmed. If it be fresh from the cow, and very rich, a portion of water may be added to it, whilft the infant is very young.

The boat, the fpoon, and the horn, are in no wife comparable to the pot; which is fo

* The objection to this mode of feeding, made by alate writer at Dover, that the pot may often be left foul, and therefore the food become four, appears to me to be very far fetched : fince if nurfes are not to be depended upon in matters of cleanlinefs, and the fweetnefs of the food they are to adminifter, we can truft them in nothing, and infants muft be continually fuffering; there being a hundred particulars effential to children's health, in which fervants cannot be always fuperintend ed, but muft be intirely confided in. 368 Exercifes and plcafes the Infant.

fo contrived, not only as to pleafe the child by its refemblance to the nipple, and the milk coming flowly into its mouth, but alfo to afford the infant fome little degree of labour, in order to acquire the quantity it needs, (which the horn does not); by which means the food is alfo duly mixed with faliva. The like little fatigue takes place in children nourifhed at the breaft, and by this mean it is, that infants, especially when very young, are not fo apt to overfuck, as they are to be overfed by the boat or the fpoon, the food of which being fweet and pleafant, and requiring only the trouble, or rather the pleafure of fwallowing, the child is tempted to take too much at a time; whilft the nurse often forces down a fecond or third boat full, in order to put a ftop to the cries, which indigestion from the first or second may have occafioned.

The writer just now alluded to, as well as Mr. Le Febure de Villebrune, detracts from the advantages of this mode of feeding, by obferving, that infants may be fed as flowly and cautioufly by the fpoon: but the fact is, that a fervant will not fo feed them, whilf there are fo many temptations to the contrary, (at least I have never met with fuch an one), nor will children, indeed, oftentimes fuffer it, if they can anywife prevent it, but will be fcreaming all the while, instead of being kept quiet by their and adapted to its situation. 369

their food; though the hope of quieting them, it has been obferved, is frequently the nurfe's fole motive for giving it. But when an infant can get it only flowly from the pot, and yet is itfelf all the while employed in the bufinefs, it will be agreeably diverted while it is acquiring its nourifhment, in the fame manner that it is amufed at the breaft.

The pot is formed in the fhape of an Argyle, or gravy-pot, with a long fpout, rifing from the bottom, and pierced only with a few fmall holes at the end, which is to be covered with a piece of vellum, or parchment; which being left loofe a little way over the fpout, is foft and pleafant to the infant's mouth, and it has been faid, is nearly as acceptable to many children as the breaft, as I have often been a witnefs.

This manner of feeding is not only pleafant to the child but very convenient to the nurfe, and the food equally at hand in the night as the day, being eafily kept warm by a lamp, or even in the bed. The only objection I have ever known made to it by thofe who have made trial of it, is that which I efteem one of its higheft recommendations, which is, that children thus fed are frequently hungry, that is, they are what nature defigned them to be; this food fitting light on the ftomach, and being eafily digefted, like the 370 Proper feafons of feeding. the breaft milk, children often need a fupply of it.

It is a common direction in works of this kind, to point out the propercit times for feeding an infant brought up by hand, and to direct how often it may fafely be fed. I fhall just observe therefore, that no adequate rules can be laid down on the occafion, and on that account none ought to be attempted, fince none can be fufficiently comprehenfive; and I am happy in not being at all at a lofs in this inftance, wherein writers have differed fo widely. For infants not ufually taking too much at a time in this manner of feeding, on account of the little fatigue which, it was observed, they undergo in acquiring their nourifhment, may generally be permitted to partake of it as often as they might of the breaft.* This is, however, by no means the cafe, when children are allowed to eat thick victuals, and are fed by the fpoon, by which, it has been faid, they are always in danger of taking too much ; an evil that cannot be too often pointed out.

I fhall only mention one popular objection to the plan here recommended. This is taken from the many fine children we meet with, who have been brought up by hand from

* Optimum vero medicamentum est, opportune cibus datus. Celsus. De Med. Objections to this light food. 37.1

from the birth, and fed with thick bread victuals all the day long, whilft we every now and then fee fome of those who have been debarred that fort of diet, weak and tender till they become a year or two old. Not to ftop here to obferve, that this objection militates equally against children living on the breaft, though that is the food nature has defigned for them, it will be fufficient to fay, that it is only ftrong children who may be bred up almost any how, that can at all digeft thick victuals, and that weakly infants, who are fcarcely preferved by the moft careful attention to their food, would foon be hurried out of the world if that were withheld. And this reminds me of an obfervation of a very judicious friend in the north of England, which greatly furprized me at the time, as I had never met with any obfervation from him before, the propriety of which was not exceedingly obvious and convincing. Upon feeing a number of fine children one day in London, he with fome fhrewdnefs obferved, that we did not feem to have fo many weakly half-ftarved children as he met with in the country, and that he had often before made the like obfervation in his journies to town. It appeared to me that my friend must lie under fome miftake, and I accordingly mentioned my furprize at fuch a remark coming from him; when he removed my aftonishment by

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by infifting on the fact, with the following obvious folution of it. There are, fays he, fcarcely any but fine and ftrong children in London, I apprehend, that live to be two or three years old, the weaker ones, for want of good air, and exercife, finking under their infirmities; whilft the tendereft children in the country by being turned out to crawl in the wholefome open air, or by fitting at the door almost all the day, efcape the fatality of your grofs air and warm nurferies, and furvive the trying periods of infancy, though fome of them remain weak and rickety till they become old enough to endure fevere exercife, which is alone able to ftrengthen them effectually.

I have no doubt of there being certain exceptions to this mode of feeding, although very few have actually come to my knowledge, and though I am perfuaded, that as a general plan, it is both a natural and falutary one. Inftances may be met with, however, of fome very athletic children who may require a more nourishing, and perhaps fomewhat more folid diet; and the state of bowels in others, will call for a greater variety of food, and of a kind not calculated to be administered in the mode here recommended, as hath been already noticed under the head of purging. On thefe accounts, I would offer another observation or two, in regard to thick victuals ; and firft

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Changes in the food

first, that in families accustomed to bit up their children by the fpoon, I think have found a greater number of infants we ! nourifhed by the french roll boiled in water to a jelly, and afterwards diluted with milk, than on any other kind of pap. From fuch families I have likewife learned, that fome change in the food is, however, frequently neceffary, and will be indicated by the degree of relifh which the infant may discover towards different kinds of food, as well as by their effects on the bowels; though the child be not supposed to be at such times really unwell. Such changes principally refpe& the different kinds of bread, or other farinaceous fubflance usually mixed with milk, and fometimes the fubflication of broth, for a few days, in the place of the latter.

When children brought up by hand become four or five months old, efpecially if ftrong and healthy, they may, doubtiefs, be allowed a thicker kind of victuals, becaufe their digeftive powers being by this time become ftronger, they are able to extract good nourifhment from it; though this change is not equally neceffary for children brought up at the breaft, at leaft, fuch do not require it fo early; breaft milk being more nourifhing than any other. The first addition of this kind however, whethewer it becomes neceffary, I am perfusched, I i 374 ought to be broth*, which with a little bread beat up in it in the form of panada, will be at once an agreeable and wholfome change, and prepare them for farther advances in this way. But as this cannot well be given oftener than once or twice aday, a little bread and milk may alfo be allowed them every morning and evening, as their strength and circumstances may require. A cruft of bread likewife, as foon as the child has a couple of teeth, will amufe and nourish it, whilst it will affist the cutting of the reft, as well as carry down a quantity of the faliva; a fecretion too precious to be loft, when the digeftive powers are to be farther employed. As the child grows older, to broth may be added light puddings, made of bread, femolina, tapioca, + or rice; falep boiled in milk, and fuch like. But to feed a child with veal, chicken,

* " I cannot help remarking here, that the gravy of beef or mutton, not over roafted, and without fat, properly diluted with water, is the wholfomeft and moft natural, as well as nourifhing broth that can be made." See the above-mentioned Letters of Dr. Hugh Smith.

+ The best tapioca, I believe, comes from the French Weft India Itlands, and is called by the general term, farine. It is in very common use also in our Weit-India Iflands, where it is made into thin cakes, and is called culfada; in this form, therefore, it is most likely to be genuine, and may be preferved for a very long time.

and is getting Teeth.

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chicken, or other animal food, before nature hath given it teeth enough to chew it, howfoever fmall it may be minced in the kitchen, is altogether unnatural, * and can prove nourifhing only to fuch children, as from the great strength of their natural constitution, need least of all the affistance of art. It is by degrees only, that children ought to be brought to fuch food, which at a certain period, indeed, is as neceffary as a light dict at an earlier age. It is true, the error of fome parents runs the contrary way, and their children are kept too long upon a fluid, or too flender diet, whence their bellies and joints become enlarged, and the bones of the lower extremities too weak to fupport them, at an age when they want more exercife than their nurfes can give them. And when they can go alone, not only is a little light meat and certain vegetables to be allowed them once a day, with puddings, or blamange, white-pot, cultards, and fuch like kitchen preparations of milk, + but even a little red wine is beneficial to many conftitutions. This will not only promote digeftion, Ii 2

* Ante dentium eruptionem non conveniunt cibi folidiores. Ideo natura quæ nih l fruftra facit, & non deficit in neceffariis, dentes ipfis denegavit, fed lac conceffit, quod mafticatione non eget. Primeros.

† " Infancy and childhood demand thin, copious nourifhing aliment." Arbuthnot, On Aliments.

376 Great caution is necessary.

digeftion, and obviate in a great meafure a difpefition to worms, but by ftrengthening the habit, will alfo render children lefs liable to become rickety, at the very period they are very much difpofed to it. But fo many little infants, on the other hand, fall a facifice to the ufe of indigeftible food under the age of fix months, being carried off by vomiting, purging, or fits, that whoever would preferve them over the moft dangerous period of infancy, cannot too cautioufly attend to their diet at this time.* Before

* From a note in Dr. Smith's letters it appears, that the average of births annually, within the bills of mortality, for ten successive years, was 16,283; out of which were buried under five years of age 10,145, and from amongst thefe 7,987 were under two years. So that almost two thirds of the children born in London and its environs, become loft to fociety, and more than three-fourths of thefe die under two years of age. This proves how hazardous a period that of infancy is in this country ; and I am forry there is fo much reafon to be perfuaded, that the want of air, exercife, and a proper diet, has added, unneceffarily, to its dangers ; there being no fuch mortality in barbarous nations, whofe inhabitants live in a state of nature, or in any part of the known world, amongst other young animals. Although thefe, and other calculations 1 have f en, should be found ever so accurate, it is a pleafant reflection, (to whatfoever the circumstance may be owing) that fince the time they were taken, the proportion of deaths at the early period above alluded to, has been very confiderably decreafing ; and the writer has noticed that for the last three years

The diet of Infants when ill 377

Before I clofe this head of the management of children, perhaps the most important of all, I shall point out the most fuitable diet under the different complaints to which they are most liable. And after the hints that have been thrown out through the former part of this work, I need only observe, for the fake of those who are unacquainted with difeafes, that as light a diet as is possible is ufually called for when a child is unwell, let the diforder be almost whatever it may. If a fever fhould accompany it, the child will require still less food than in any other complaint, but plenty of drinks; which may alfo be fo calculated as to furnish nearly as much nourishment as the infant will require, and may in fummer-time be given cold. Such are barley-water, water in which a cruft of bread has been boiled, or if a purging attends, rice-water, and a drink made of hartfhorn fhavings, with a little baked flour in it. In this complaint, wherein more nourifhment is required to fupport the child under it, baked flour mixed up with boiled milk, (as mentioned under the article of purging) is admirably calculated both as a proper diet and medicine; and if kept in a dry place, may be preferved fit for use for a li3 confiderable

years the average of deaths according to these bills has not been more than fix in fixteen.

373 may't be adapted to their complaints.

confiderable time. For the like complaint, the food directed by Dr. Smith is very well adapted, and will afford a little variety. He orders a table-spoonful of ground rice to be boiled with a little cianamon, in half a pint of water, till the water is nearly confumed ; a pint of milk is then to be added to it, and the whole to fimmer for five minutes : it is afterwards to be ftrained through a lawn fieve, and made palatable with a little fugar. In this way, or joined with baked flour, as mentioned above, milk may generally be made to agree perfectly well even when the bowels are purged ; and when it does fo, proves exceedingly nourifhing. Should it chance to difagree, owing to an acidity in the first paffages, good beef-broth ought to be made trial of, which may be thickened with baked flour, inftead of bread, and makes a very pleafant, as well as antiacescent diet.

Perhaps much more has been faid on the fubject of acidity, by fome writers, then really ought to have been, or it may at leaft be fufpected, that a proper attention has not been paid to the peculiar circumftances of infants, who are all much difpofed to it. Acidity is probably rather an effect, than the first caufe of the diforders of infants; though there is no doubt, that their complaints are afterwards aggravated by an abounding acid; or rather, probably, from this Acidity and wind,

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this natural acid becoming morbidly acrid, through its being accidentally confined in the first-paffages. Nature, however, defigned the food of infants to be acefcent, and and till the body be difordered, and digeftion hurt from one caufe or other,* this quality of their food is not likely to be very injurious to them. It is true, indeed, that as any fimilar complaints in adults, who feed on different diets, will, cateris paribus, have their varieties, and each have fome relation to the different qualities of their food; fo it is not to be wondered at, that the complaints of infants should be attended with wind and other marks of acidity, which in adults are the leaft hurtful of all; and are, indeed, pretty eafily corrected in children. When they are much troubled with wind, therefore, it cannot be wrong to mix fome carminative feeds, or the waters diffilled from them, now and then, with their food,+ fuch as fweet fennel, or cardamon feeds, bruifed

* Such caufe, it has been obferved, is very generally an over quantity of food, or heavy and indigefible diet; which, indeed, prove a more frequent occation of acidity, than any thing elfe.

† Though fuch an occational addition to their food is often exceedingly ufeful, I cunnot help fpeaking again a its being made a conftant practice, by which children not only fuffer when by accident, or abfeve from home, it has been negle@ed, but it deftroys the very defign with which it was ufed, by the ftomach becoming accuftomed to it.

and their remedies.

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bruifed very fine; but dill-water is that I have ufually recommended, and being a liquid, is always ready to be added to the food, without lofs of time.

Children, however, become less fubject to wind and hurtful acidities as they grow older, and the ftomach gets ftronger, as it is called. But fhould thefe complaints, notwithstanding, continue obstinate, a little fine powder of camomile flowers, mixed in water, and warmed with a little ginger, will prove exceedingly bracing to the ftomach and bowels, and render them lefs difpofed to acidity. Exercife alfo, according to the age and strength, is a grand prefervative and remedy, and efpecially making infants break wind after fucking or feeding. And this may generally be effected, as every nurfe knows, by raifing the infant up, and gently tapping it on the back, or rubbing its ftomach, before it be lain down in the cradle to fleep.

I fhall only add farther, that when milk is frequently thrown up curdled, a little prepared oyfter-fhell powder may be added to it, or a very fmall quantity of almond-foap, or of common falt,* which will not at all injure

* It is a very great miftake, though a common one, to imagine that falt will difpose to the feurvy. This miftake is founded upon the bad effects of the long use of falted meats; but falt taken with fresh recats Of the choice of wet nurfes. 381 jure the flavor, and will prevent this change happening too foon in the flomach.

I fhall now clofe this head, with fome obfervations relating to wet-nurfes and to weaning.

The first and effential point in a wet-nurfe is doubtlefs, that her milk be good, to which end it is neceffary fhe be healthy and young, her bowels rather collive than otherwife ; and not of weak nerves, nor difpofed to menitruate whilft fhe gives fuck. The chief marks of good milk, are, its being thin, of a bluish colour, rather fweet, and in great quantity; and if under fix months old, it is, doubtlefs, an advantage. Her nipple ought to be finall, but not fhort, and the breaft round and prominent. She ought to have good teeth, at least, her guins fliould be found, and of a florid colour. She must be perfectly fober, and rather averfe from strong liquors; which young and healthy people feldom need in order to their haviag pleaty of milk. She fhou'd be cleanly in her perfon, good-tempered, careful, fond of children, and watchful in the night, or at leaft, not liable to fuffer

meats is quite a different thing. And I shall just remark, that falt and water is one of the best lotions for the mouth, and prefervative from the tooth-ach, and alfo makes an excellent wash for the face; which will remove fome kind of pimples without any risk of injury to the constitution.

Of their diet.

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fer in her health from being robbed of her fleep. And I cannot help adding here, that fhe ought not to be difpofed to prefcribe medicines; otherwife fomething improper can fearcely fail at one time or other to be administered, and perhaps to the no fmall injury of the child.

Previous to the observations I have to offer on the head of weaning infants, it may not be amifs to drop a few words on the proper diet for wet-nurfes. And here, an invariable attention fliould be paid to natural conflitution and habit. Due allowance being made for thefe, it may be faid, that milk, broth, and white foups, plain puddings, flesh meats of easy digeftion, and a due mixture of vegetables, with plenty of diluting drinks, and fuch proportion of more generous liquors, (fpirits excepted) as the variety of circumstances shall direct, will be a proper dict for fuckling women. Refpecting vegetables particularly, the ftricteft regard should be had to conflitution and habit. Wherever vegetables, or even acids, uniformly agree with the suckling parent or nurse, I believe a healt sy child will never fuffer by their partaking of them, but on the contrary, the milk being thereby rendered thin and cooling, will prove more nourifhing and falutary, in confequence of being eafier of digeftion.

The proper age for weaning a child is to be gathered from the particular circumstanProper age for weaning children. 38 3 ces attending it. The child ought to be in good health, efpecially in regard to its bowels, and doubtlefs, ought firlt to have cut, at leaft four of its teeth. This feldom takes place till it is about a twelve-month old; and it may be obferved, that healthy women who fuckle their own children, and take proper exercife, do not ufually become pregnant again in lefs time. We fhall not be very wide of the matter, therefore, if we fay that children in general ought not to be weaned much earlier than this; making proper allowances, however, for all juft exceptions to general rules.*

Any preparation for weaning is generally needlefs, and efpecially that of feeding children before-hand, though made a common excufe for fluffing them whilft at the breaft, with indigeftible food. I have feen many mothers needlefsly torturing themfelves with the fear of their children being weaned with difficulty, becaufe they could not get them to feed when eight or ten months old, and ftill at the breaft; but I have always found fuch children wean, and feed juft as well as others, when once taken wholly from it. I, therefore, never have any fear in that refpect, and fhould be happy

* Aftrue advifes children to be fuckled till they are two years old; but, I think, without giving any fufficient reafons.

384 No preparation necessary.

py if any thing I can fay from experience, may be the means of leffening the trouble of parents on this occasion, as well as counteracting, if possible, a sentiment encouraged by feveral writers, which has, I believe, no real foundation in fact, but has too often been productive both of much inconvenience and mifchief. But I do not by this intend to fay, that a child of eight or ten months old would be injured, or often-times not benefited, by a little food once a day of a more folid nature than the breaft-milk, as indeed I have intimated before; but when children happen to be weaned much earlier, and are fed almost from the birth merely with that view, (which is often the cafe) they may be effentially injured by it.

When the weaning is once entered upon, a great part of their food ought still to be of milk, with puddings, broths, and but little meat ; and they fhould never be fed, or even fuffered to drink in the night, from the first; fuppofing them to be weaned at a proper age. The mere giving them drink, even only a few nights, creates the pain and trouble of two weanings instead of one, and if it be continued much longer, it not only breaks the reft, but the child will acquire a habit of being fond of drinking; the confequence of which very often is a large belly, weak bowels, general debility, lax joints, and all the fymptoms of rickets. The child

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On Sleep and Watching.

385 child need only to be fed the laft thing before the nurfe goes to bed, which may be generally done without waking it; and whilft the child feems to enjoy this fleepy meal, it becomes a most pleafant employment to the nurfe, and much more to a mother, from observing how greedily the child takes its food, and how fatisfied it will lie for many hours on the ftrength of this meal ;the mention of which naturally leads me to confider the next article propofed, viz.

SLEEP and WATCHING.

A FTER what has been already advanc-ed on this article, under the head of their complaints, it will be neceffary only to observe, that healthy children fleep a great deal for the first three or four days after they are born, probably from having been previoufly accuftomed to it. They ought not, however, to be fuffered to continue this habit in the day time, but fhould be gradually broken of it, and indeed if not indulged, they will not be fo much disposed to fleep as is generally imagined, and will therefore take more reft in the night, which is mutually beneficial to the child and the mother; who, especially if the fuckles, will be the lefs difturbed, at a time when she herself particularly requires this refreshment.

Therefore, when infants are fleeplefs in the night, they fhould be kept more awake, Kk and 386 Infants should be amused by day.

and have as much exercife as poffible in the day time, which though they be ever fo young may be pretty confiderable, (as will be directed more at large in its place,) by playing with them, or dandling on the knee, and otherwife amufing them; and when older by every kind of exercife they can bear. The child, if healthy, will foon contract a habit of being very much awake while it is light, through that lively and reftlefs fpirit peculiar to infancy, and by this means, another evil will be much avoided, that of often laying a child down to fleep in the day time, for hours together, loaded with a thick drefs, and covered befides with heavy clothes in a foft bed, or the cradle.

But though I am confident thefe cautions will have their ufe, I am equally fatisfied that many children have much lefs fleep than they require, as I fhall have occafion prefently to notice; but then this deficiency is chiefly in the night, and is often the confequence of fome complaints which the child labours under. Upon thefe, however, fufficient has already been faid in the former part of this work, to which therefore the reader is referred.

Before I quit this article, it may be remarked, that the cuftom of conftantly placing infants on their backs, whether in the cradle or bed, is very improper: for by this

Of Laying Infants, and of the Cradle 387 this means, the fuperfluous humour fecreted in the mouth, which, in the time of teething efpecially, is very confilerable, cannot be freely difcharged, and must fall down into the itomach, where its abundance occafions various diforders. Infants should therefore be frequently laid on their fides, par-ticularly the right, as favourable to the ftomach getting eafily rid of its contents; to which fide alfo children, when strong enough, will inftinctively turn, if not prevented by the weight or confinement of their own clothes, or those of the cradle or bed. The chief apology, for all which, is a tear of the infant's falling, or turning on its face; but this is rather an apology for the neglect of that neceffary attention to children, which whenever, it can be commanded should never be spared them.

It only remains, under this article, to fay fomething of the Cradle, which moft writers have fpoken againft. I believe, there is no doubt but the cuftom of laying children down awake, and rocking them in a cradle in the day time, or at feven or eight o'clock in the evening, when they are to go into their night's fleep, as it is called, may be an occafion of making them more wakeful in the night, or at leaft may may caufe them to expect that kind of motion whenever they awake. But yet I cannot help thinking, there is fomething fo K k 2 truly 383 Its motion eafy and Natural.

truly natural, as well as pleafant, in the wavy motion of a cradle, (when made use of at proper times) and fo like that children have been used to before they are born, being then fuspended and accustomed to ride, as it were, or be gently fwung in a foft fluid, upon every motion of the mother, and even during her fleep, from the effects of refpiration; that always withing to fol-low nature as I do, I cannot, on the whole, but give an opinion rather in favour of the cradle.* It is, at leaft, among the little things in which we may harmlefsly err, and in which every mother may therefore be fafely guided by her own opinion, or even by her feelings. And if the child in confequence of being fometimes rocked to fleep in the day time, shall expect it when it awakes in the night, it will not be very difficult to find a fubilitute for it; and indeed parents feem, as it were by inflinct, to pat and gently move a child, whether lying on the lap or the arm, whenever it appears to awake prematurely .--- I fhall only add on this head, what cannot be too often urged, that however wakeful a child may be in the night, it cannot receive a greater unkindnefs than from the exhibition of Godfrey's cordial, fyrup

* the objections made by fome late writers to this fentiment militate only against the abuse of it, from any violent rocking; as though infants must necessarily rily be jumbled in a cradle like travellers in a mailcoach.

On Motion and Reft.

389 fyrup of poppies, or any other opiate, and given as they ufually are, to procure fleep, not because it is necessary, or proper for the child, but because it is convenient to the nurfe. It were, therefore, a good rule in a nurfery, to forbid administering any kind of medicine without particular permiffion. And in regard to watchfulnefs, as was obferved in another place, it is ufually a mere fymptom, and fhould be treated according to its caufe; but in a general way it may be faid, that nothing can fo fafely and effectually contribute to procure natural reft as that exercife to be farther confidered under the next head.

MOTION and REST.

FT is only the former of thefe that will claim much of our attention, as infants ought fcarcely ever to be in a quiefcent pofture, but when they are afleep; and happy for them, that active principle with which nature hath endowed them, is fo vigorous and overflowing, that they will hardly fubmit to it. Exercife, like air, is indeed of fo much importance to children, that they cannot poffibly be truly healthy without it; care only should be taken that it be properly fuited to their age.

The first kind of exercise, it has been faid, confifts in dandling, as it is called, patting the back after feeding, and gently raifing Kk 5

390 Exercife is of the greatest importance : raifing the child up and down in the arms; taking care at first not to tofs it very high, infants being very early fusceptible of fear, and even capable of being thrown into fits by it. Another exercise adapted to this tender age, and of the utmost advantage, is rubbing them with the hand. This fhould be done all over, at leaft twice a day, when they are dreffed and undreffed, and ought to be continued for fome time, being peculiarly agreeable to the child, as it conftantly teftifies by ftretching out its little limbs, and pushing them against the hand, with a fmile expressive of the fatisfaction it receives from it. Such gentle exercife may be partially repeated every time the child's cloths are changed, by rubbing the lower limbs, and every other part within reach.

When children are older, their exercife fhould be proportionally increased, and as has been obferved, they ought never to be carried in a quiescent posture, but the arm that fupports them fhould be continually in fuch motion as the nurfe is able to continue. For children, it has been noticed, delight to be in conftant motion; and this exuberant activity is given them for the wifeft purpofes, and ought by no means to be connteracted. And I notice the mode of carrying them, becaufe I have feen children flung carelefsly over the arm in fuch a manner, as neither affords a child any exercife, nor allows it to give any motion to itfelf; which a lively child

Great evils arife from neglecting it, 391 child will always endeavour to do. And, indeed, the manner of carrying an infant, is of more importance than is generally imagined, for from it, the child will contract a habit, good or bad, that it will not readily give up, and may be as much difpofed to become rickety by improper management in the arms, as if it were lying wet in the cradle; the ill effects of which have been pointed out already.

Much as there has been faid on this article, I cannot fuffer it to be clofed without dropping a hint or two with a peculiar reference to females; upon whom befide every infirmity common to the other fex, is impofed the painful tafk of child-bearing. It is the benefit of the lower clafs of people, indeed, that I have here principally in view; though the caution is not utterly unneceffary elfewhere .---- The many diffreffing, and fometimes fatal labours I have been witnefs to, have led me to regard with a kind of horror a rickety, distorted female infant, whole parents or nurle's neglect, or ignorance, is heaping up for it additional fufferings and dangers, to those which are great enough under every advantage that art, and good health contribute.

From the age of two years therefore, or rather earlier, this care is effectially called for, and befide every caution already pointed out, lays a ftrict prohibition on girls being fuffered to *fit*, for hours together, on a low

especially to females.

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low feat, whereby that affemblage of bones, called the *pelvis*, or bafin, is prefied between the lower extremities and the inferior part of the back bone, and is made to grow out of its natural form. The confequences of this change of figure, if it be any wife confiderable, cannot fail to be productive of increafed pain and dangers in parturition, frequently equally fatal both to the parent and her offspring.

I am aware, that many poor people are not in a fituation to give their children all the exercife they require; they may, however, fuffer them to afford as much as poffible to themfelves, by allowing them to *cravel* about on the floor, near an open window or door, inftead of compelling them to lie on their back, or to fit upright, pinned in a chair; the ill-confequences of which are fo exceedingly evident.

It is hoped no apology may be thought neceffary for these obvious remarks, fince no pains should be thought too great if they may prevent the evils here pointed out, nor can too much be faid to inculcate good nursing (and especially exercise) which is alone adequate thereto.*

It.

* A proper attention to thefe articles has been conceived to be of fo much importance, that the benevolent Governors of the Britifh Lying-in hofpital, have lately given orders, that fome brief Directions on thefe heads fhould be drawn up, and given to every mother, Children should be cautiously put on their 393

It may be a proper inquiry in this place, at what age children should be put on their feet, a point on which people have differed confiderably ; but I apprehend nothing more is required than to follow nature, whofe progrefs is always gradual, as our imitations of her should be, and we shall then feldom run very wide of her intention. If we take notice of a healthy child, it is, as has been faid, always in motion, and as foon as it gets strength, it will support itself by the help of its hands and feet, and will crawl about wherever it is permitted. From this exercife, it will foon acquire an increase of ftrength, and whenever it is upheld by the arms, and difentangled from the weight of its clothes at the time of dreffing and undreffing, it will naturally walk up the waift of its mother, or nurfe,* and by its manner

* I cannot help taking notice here of an imprudence on this occation, which it is well if it has not been prejudicial oftener than has been fulpected; I mean, that of fuffering a child to crawl fo high up the neck, as renders the mother, or nurfe, incapable of railing the arms high enough to fupport it. For not only may a child be fuffered to flip out of the hands, but the mother may be injured. I have felt much on this occution, from feeing tender and delicate ladies with their arms on a firetch, fuffering a heavy child, perhaps with its floes on, to crawl over the breafts, diffended with milk, and fqueezing them fo forcibly againft the edge of the flays, that they have fometimes cried out from the pain, and yet not been able, 394 fect, till they are disposed to it.

ner of moving its limbs, and its bearing more or lefs on the arms, will shew what advances it has made. Whenever it is ftrong enough, however, it will have attained fufficient knowledge to walk by itfelf, and will never attempt it till it is fully equal to the tafk. It will then be perfectly fafe to permit it to follow its inclination, at least as far as the ftraitnefs of its limbs is concerned; and I think I may defy any one to produce a fingle inftance of a child getting crooked legs, from being fuffered to walk as foon as it has been difpofed to make the attempt. The mischief is, we lead on children prematurely to the trial, by leading-ftrings, goe-carts, and other contrivances, calculated only to fpare idle nurfes,* or what is really pitiable.

at the moment, to bring the infant down into the lap.

* I cannot avoid once more rifking giving offence, that I may do every thing in my power to induce parents to give the utmoft attention in regard to exercife, for the want of which I have with much concern beheld fome children of people of large fortune turn out as rickety as those of the 1-b uring poor. In fome inftances, I have been for fuisfied this has been owing merely to a want of exercise, that I have informed ladies, that from the appearance and manner of the nurfery-maid, I was certain their children were not exercised fufficiently; and have pointed out the bad confequences that muft enfue. And where the advice has not been taken, I have as confantly been confulted fome months afterwards, about the For want of this caution

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ble, to allow poor people time to attend to other concerns, who are obliged to work for their bread. But where this is not the cafe, fuch contrivances are unpardonable, and are the confequence of ignorance, or idlenefs, which are productive of great evils; and then by way of excufe it is afked, at what age a child may be put on its feet—A queftion, I apprehend, that ought to be anfwered only in the manner I have done—* Leave children to themfelves, and they will afford a fatisfactory anfwer in time.

It is faid, however, by a fenfible writer⁺, that children's legs do not become crooked by putting them too early on their feet, and alks if any other animal has crooked legs, though they ftand on them almost as foon as they are born. But the cafes, I apprehend, are widely different; quadrupeds and fowls are defigned by nature to be early

the cold-bath, for children a year and half, or two years old, who have only been able to waddle acrofs the room, with their knees knocking together, and reeling at every ftep, fo as not to be trufted alone.

* I have feen a child walking alone before it has been nine months old, and ten months, carrying a heavy play thing in his hands; whilft other children, rendered weak and rickety by mifmanagement, have been unable to go alone at two years of age.

† Dr. Hugh Smith's Letters to married women.

396 they often become crooked.

ly on their legs, and it is neceffary they fhould be fo. They are accordingly calculated for it, their bones being ftrongly offified from the birth; but this is, by no means, the cafe with the human fpecies, and therefore no argument can be founded upon it without confiderable latitude, and making fuch allowances for the different circumftances of children as have been pointed out. But if it is meant only to fuffer children *to feel their way*, if I may fo fpeak, for themfelves, they will never deceive us, nor do I think their limbs ever become crooked, but by urging them to it by contrivances of our own, for which poverty is the only apology that can poffibly be offered.

A Note of Dr. Buchan on the fubject of giving exercife to children, which fome people from their poverty cannot fpare time to afford them, charmed me exceedingly. The good fenfe and philanthropy manifelted in it, as well as a defire of extending its ufeful contents, will I hope be apology fufficient for transcribing it, especially as it is at prefent fo apposite to my purpose. And though I cannot flatter myfelf that government, however benevolently disposed, will, or perhaps can, at this time, adopt fuch a plan, either from his recommendation or mine, it is, neverthelefs, in the power of people of large fortunes, both in town and country, to give it very confiderable influ-

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ence,

Want of sufficient rest.

397 ence, especially if the premium were made double for fuch children as should be produced in good health. The Doctor's words are.

" If it were made the intereft of the poor to keep their children alive, we fhould lofe very few of them. A fmall preimum given every year to each poor family, for every child they have alive at the year's end, would fave more infants lives than if the whole revenue of the crown were expended on hospitals for that purpose. This would make the poor efteem fertility a bleffing, whereas many of them think it the greatest curfe that can befal them ;" and I may add, I have known them express great thankfulnefs when their children were dead.

A very few words may fuffice on the article of Reft, the irregularities therein being far lefs numerous and important than in the former. It will be fufficient to notice them in regard to the improper inducement of young children to continue in action after they feel themfelves wearied, and in keeping them out of their beds beyond a proper hour. Children in health never with to fit still when they do not actually feel it to be neceffary, much less to go to bed unseasonably foon. But it is to remembered, that young people require more fleep, and to be longer in a horizontal pofture than adults; for though they ufually rife very early, they LI get

398 Retention and Excretion.

get to reft more than proprtionally foon, being difpofed to fall afleep almost the moment they are ftill; and this is natural to them, and is one demonstration of the advantage of exercise.

If I had not already far exceeded the bounds I had intended, I fhould be induced to fay fomething on the Manner in which Exercife becomes fo beneficial to children— I fhall, however, juft obferve, that it tends to pufh forward the blood through the fmall veffels, and to unfold them in the manner nature has defigned them to be extended, in order to promote the growth of the infant, whilft it preferves the blood in a proper flate of fluidity, and promotes both the Secretions and excretions; which are the next things it was propofed to confider.

RETENTION and EXCRETION.

E VERY medical reader will be fenfible, how greatly health depends upon a due proportion between the daily fupplies, and the various difcharges of the body: the latter will vary according to the diet, age, and particular mode of life of each individual. The excretions of infants, however, infenfible perfpiration excepted, are chiefly from the bowels and bladder; but the latter is not very liable to diforders. It will Retention of Urine.

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will be fufficient therefore to fay, that the retention of urine is chiefly foon after birth, and is usually removed by applying a bladder of hot water to the belly, and gentle rubbing with a little warm brandy, or an onion, and throwing up a clyfter; or fhould thefe fail, the infant may be put up to the breaft in a pan of warm water, and take a little marfh-mallow, or parfley-tea, fweetened with honey, with the addition of a few drops of the fpirit of nitrous æther. This, if there be no mal-formation of parts, will generally produce the defired effect in the course of a few hours; though cafes have occurred in which infants have voided no urine for the space of four days, and have fuffered very little inconvenience. Some of the old writers have fpoken alfo of incontinence of urine, arifing from weaknefs of the fphincter of the bladder, but I have never met with it in the infant-state. They prefcribe agrimony and myrrhe, and direct astringent fomentations of red wine to the belly, the perinæum, or feat, and the loins.

The prefent obfervations are therefore chiefly confined to the Bowels, which wou'd call for a fcrupulous attention in this place, if fo many things relative to them had not been difcuffed in the former part of this treatife. It were needlefs, therefore, to fay more, than to remind common readers, that infants are rarely healthy long toge-L.1 2.

Costiveness and Purging.

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ther, who have not two or three ftools e-v: ry day; or should they be more, for the first three months, if the child be brought up at the breaft, and the nurfe have a fufficiency of milk, it will generally thrive the better. The ftools likewife ought to be loofe, of a yellow colour, free from lumps, or curdly matter, and fhould come away without griping. On the other hand, if an infant is brought up by hand, the danger generally lies in the other extreme, fuch children being difpofed to be purged, and to have griping and four ftools, from the acefcent, and often indigeftible nature of their food, efpecially if fed by the fpoon; and therefore require an early attention when their bowels are disposed to be open, and their food to be changed, in the manner directed under the article of Purging.

THE PASSIONS of the MIND.

THIS is the laft Article mentioned as included in the Non-naturals, and on which I fhall be very brief, it being the happinefs of Infants to be very little affected by them. This article, can, therefore, relate to them merely in regard to their mode of expressing fuch passions, and principally in respect to Laughter and Crying. The former, if too long kept up, or too violent, may not only induce

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induce the hiccough, but it is faid, may even throw an infant into fits. The latter is, indeed, much oftener fuspected of being mifchievous, and chiefly by occasioning fits, or a rupture : the excess of both these affections should, therefore, be guarded againft. Moderate, and not too frequent crying, however, ought not to be alarming; and, indeed, a variety of confiderations induce me to believe, that this expreffion of the paffions in Infants is not only much more harmlefs in itfelf than is generally imagined, but is alfo, in fome refpects falutary. The first Cries it makes we know to be fo, and that children recover from the paroxyfms of fome complaints (as was mentioned in regard to the Croup) by an effort of this kind. It is evident likewife, how very much Health depends on a free circulation of the blood through the lungs, and on their free expansion from the dilatation of the bronchial, or air-veffels, that run through them.* But as infants are incapable of giving themfelves any exercife, and indeed of receiving that kind which tends to promote fuch an effect, I have conceived Crying to be an effort which Nature may have wifely L13 fub-

* Fletus moderatus pueris non obest-pectus dilatat et calefacit. Primeros.

Tempers and Paffions of

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fubflituted in its flead.* Whatever is truly natural I always conceive to be right, though every thing is capable of being abufed, and the most beneficial dictates of nature may be exceeded. I am fatisfied, however, that the pacifying of children by improper means, and efpecially cramming them with food when they are not hungry, (against which fo much has been faid) occafions far greater evils in thoufands of inftances, than ever were produced by the efforts of Crying .--But the Nurfe who can with calmnefs, hear an Infant cry, without attempting to pacify it, by every proper means, is a Monster in human shape, unfit to be trusted with the care of any animal being, much lefs with a tender, helples creature, whose only language, by which it can express its wants or its fufferings, is its Tears.

It cannot help trefpaffing on the reader's time to make one apology more for having dwelt fo long on this, as well as on feveral other heads; my motive has been the defire of inftructing, though in fome inftances at the

* In fupport of this fentiment, which I conceived not to be a very common one, I quoted, in the former edition, the above authority of *Primerofe*. *Mr. Le Febure de Villebrune's* translation has fince furnished me with a better and more ancient one. Arikot. Politic. Lib. vii. C. 17, where the idea is fupported more at large. Nurses variously important.

493 the rifk of difpleafing ; and for the fake of my fair readers, who may do me the honour of confulting this work, I have endeavoured to leffen their Fears, as far as they have appeared to be needlefs, wherever no other Remedy could be offered.

I fhall conclude by obferving, that, tho' the Paffions of the Mind refer fo little to Infants, they relate very materially to the Wet-nurfe; who befides endeavouring to keep her fpirits as calm as poffible, ought to be exceedingly careful not to put a child to her breaft, when under the influence of any violent paffion, of whatever kind it may be, the bad effects of which have already been inftanced in the former part of this treatife. And I fhall think myfelf well recompenfed for the trouble I have had, if this, or other hints, may prove the means of leffening the dangers of the infant-state, and the confequent fad fatality that attends it; as well as of abating the anxiety of the fond Mother, who after having brought her tender Charge into the world with Sorrow, is pierced with double Pangs at its leaving it .- An Event which, as Experience warrants me to fay, may by Art and good Management, be often prevented, the author

Conclusion.

thor ardently hopes the fond Parent may have fewer occafions to lament, and her rifing Sons being athletic.

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THE END.

An Alphabetical Lift of Medicines recommended in this Work, to which the College of Physicians has given new Names.----Both the Latin and English Names are given, of which, that one will fland first which more frequently occurs in the Work.

NEW NAMES.

NTIMONIUM H tartarifatum, Tartarifed Antimony. Argentum nitratum, Nitrated Silver. Aromatic Confection, Confectio Aromatica. Aqua Cupri ammoniati, Water of ammoniated Copper. Aqua Kali puri, Water of pure Kali. Aqua Ammonia, Water of Ammonia.

Aqua ammoniæ acitatæ, Water of acetated Ammonia, C. Catechu, Calx of Antimeny, Calx Antimonii. Camphorated Spirit, Spiritus camphoratus. Compound water of acetated Litharge, Aqua Lithargyri acetati compusita. Compound Tincture of Gentian, Tinctura Gentianæ com- Tincliura amara. polita. Compound Tincture of Alnes

Names formerly in Ufe.

Tartarum emeticum,

Emetic Tartar. Caufticum lunare. Lunar Cauftic. Cordial Confection, Confectio cardiaca. Aqua Sapphirina, Sapphire water.

Lixivium Saponarium, Soay-Ley. Spirius Salis Ammoniaci, Volatile Spirit of Salt ammoniac. Spiritus Mindereri, Minderus's Spirit.

Terra Japonica. Calcined Antimony, Antimonium calcinatum. Camphorated Sp. of wine, Spiritus vinofus camphor. Vegeto-mineral water.

Aqua vegetabilis mineralis. Bitter Tincture, Elixir of Aloes. TineTinetura Aloës composita. Elixir Alcës. triolic Æther, Spiritus Ætheris vitriolici Liquor anodynus mineralis. compositus. Compound Spirit of Am- Aromatic volatile Spirit, monia, Spiritus Ammonia compositus. Hydrargyrus muriatus, Muriated Quickfilver. Labdanum-plaister, Emplastrum Ladani. Litharge-plaifter, Emplastrum lithargyri. M. Muriatic Acid, Acidum muriaticum. N. Nation præparatum, Prepared Natron. Ointment of acetated Cerusse, Ung. Gerussa acetata. Powder of Scammony with Calomel, Pulvis è Scammonio cum Galomelane. S. Sp. atharis vitriolici, Sp. of vitriolic Æther. Spirit of nitrous Æther, Spiritus ætheris Nitrofi. т. Tartarifated Natron. Natron tartarifatum. Tinetura Catechu, Tincture of Catechu. Tinclure of Oplam,

Compound Spirit of vi- Hoffman's anodyne Liquor,

Spivitus volatilis aromat.

Merc. corrof. fubl. alb. White corrofive fublimate.

Stomach-plaifter, Emplastrum stomachicum. The common plaister, or Simple Diachylon, Emplastrum commune.

Spirit of Sea-falt, Spiritus Salis marini.

Sal Soda, Salt of Soda.

Ointment of Lead,

Unguentum Saturnium.

Bafilic Powder,

Pulvis Basilicus.

Spiritus Vitrioli dulcis, Sweet Spirit of Vitriol. Sweet Spirit of Nitre, Spiritus Nitri dulcis.

Rochelle Salts, Sal Rupellensis. Tinctura Terræ Japonicæ, Tincture of Japan-earth.

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Unguentum Calcis Hydrargyri alba, Ointment of the white Calx of Quickfilver. Unguentum Hydrargyri nitrats, Ointment of Nitrated Citrine Ointment. Quickfilver. V. Volatile Liquor of Hartshorn, Liquor vol. cornu Cervi. W. Water of Kali, Aqua Kali. Water of acetated Litharge, Aqua Lithargyri acetati. Extractum Saturni.

U.

Unguentum è Mercurie præcipitato, Ointment of white Prccipitate. Unguentum citrinum,

Spirits of Hatshorn,

Spiritus volatilis cornu-Cervi. Ley of Tartar, Lixivium Tartari. Extract of Lead,

Definition of Technical and other Terms, not fully explained in every passage where they may occur; with a view to render the work more familiar to some readers, when confulting particular or detached parts.

BDOMEN, A. Anus,

D. Dentition. Diaphoretics,

Diarrhæa, Drastic, Duodenum, · Duramater,

E. Ery Sipelas,

The Belly. The opening of the great gut, or lower bowel.

Teething. Medicines promoting Perfpiration. A Purging. Rough or violent. One of the fmall Bowels. A Membrane covering the Brain.

Saint Anthony's fire.

Gan-

G. Gangrene, Gastric juices,

Icteric.

Intestines, Intestinal, Langitudinal Sinus,

I.

M. Medulla spinalis,

Mesentery,

Ο. Os facrum, P. Palatum molle,

Pancreas,

Periosteum,

Pubes,

Pylorus, S.

Spine of the Tibiæ, Urethra,

Uvula,

v. Vertebra,

Viscera,

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A Mortification of any part. Secretions in the ftomach, and from various glandular parts contained within the Belly.

Appertaining to the Jaundice.

The Bowels or Guts. Belonging to the Bowels.

- A paffage for the blood from the fore-part of the head to the hind-head.
- The Marrow of the backbone.
- The connecting Membrane of the Bowels.
- The extreme part of the back-bone.
- The back parts of the Month and Throat.
 - The Sweetbread, a large gland.

Pathognomonic Symptoms Symptoms denoting the Effence of any difeafc.

A Membrane covering the bones, and uncut teeth.

The fpace between the two groins.

The inferior opening of the ftomach.

The edges of the fhin-bones.

The Paffage from the Bladder.

The fmall pendulous portion of flesh, at the back of the mouth.

The joints of the neck,





Med Hist. WZ 270 U56t 1802 (.)

