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TREATISE

A

O N

THE DISEASES OF CHILDREN,

WITH DIRECTIONS FOR THE MANAGEMENT OF INFANTS

FROM THE BIRTH;

ESPECIALLY Such as are brought up by Hand. By MICHAEL UNDERWOOD, M. D.

LICENTIATE in MIDWIFERY

OFTHE

Royal College of PHYSICIANS in LONDON,

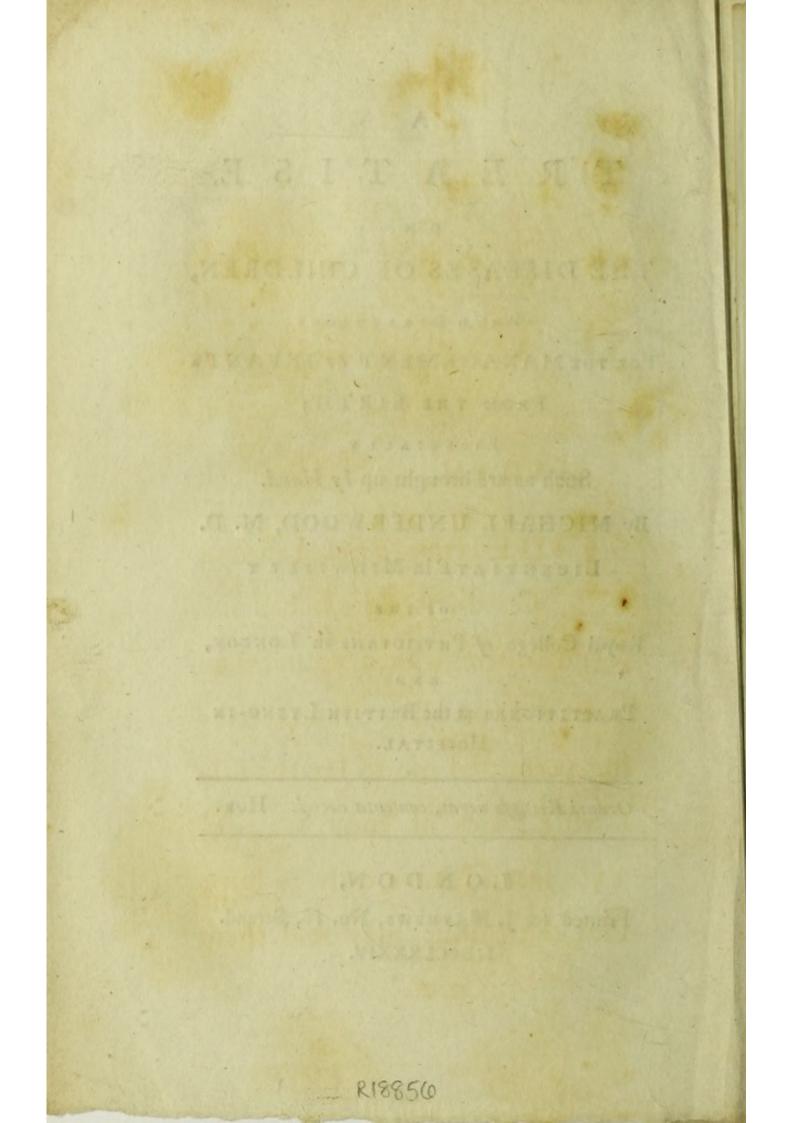
AND

PRACTITIONER at the BRITISH LYING-IN HOSPITAL.

Ornari Res iffa negat, contenta doceri. Hor.

LONDON,

Printed for J. MATHEWS, No. 18, Strand. MDCCLXXXIV.



TO THE

QUEEN.

MADAM,

THE fame condefiending Goodnefs, which has uniformly diftinguished your MA-JESTY UPON all Occasions, having permitted me to lay the following Pages at your MAJES-TY's feet; I have only to hope that the Public may find them

a 2

not

[iv] not unworthy of fo high a Patronage. My wifh being to relieve and benefit my fellow Creatures, there was no Perfon to whom they could with fo much propriety be addreffed.

I have the Honor to be, With the most grateful obedience, Your MAJESTY'S Most devoted, And most obliged, Servant;

The Author.

TY'S LOOT : N

Great Marlborough Street, August 7. 1784.

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ERRATA.

Page 20. first line of note, for Duodendum read Duodenum,
p. 20. last line but three of note, for violently read violent. -P. 36. last 1. but one, dele method. -P. 49. 1. 8. for two or three times, read two or three times a day. -P. 74. 1. 13. for fatial read fetid. -P. 99. 1. 10. for "pain not very great," read "pain very great. -P. 114. 1. 6. for lastantium, read dententium. -P. 118. 1. 2. for left read right. -P. 122. 1. 11. after issa comma, and dele often. -P. 122. 1. 15. for purgings read purging. -P. 171. 1. 17. for costic read caustic. -P. 192. 1. 9. for Serias is read Serias, -P. 204. 1. 3. for exceeding read exceedingly. -P. 253. 1. 4. for fevere read feverer.

しんいううべんのううべんのうちん いうちんんのううべんしょううせんしいううう --

TREATISE, &c.

THE defign of this effay is to offer a fuccinct account of the difeafes of children to fuch practitioners in phyfic, as may not have had the advantage of great experience in the management of their complaints. The work, however, is by no means intended folely for their ufe. The writer has long lamented the very improper method in which the diforders of infants are treated by those who defign them the greatest kindness; A but but whole miltaken opinions too often counteract their benevolent intentions. The laudable affection of the fondeft 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, 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.

[2]

It is parents, therefore, as well as the medical world, to whofe notice I wifh to recommend the following pages; and I hope in the effimation of both, the intention will apologize for taking up this important fubject, that has long called for the most able hand.

The neceffity of clearly and intelligibly expressing what is to be faid, may possibly, in this instance, be pleaded with those

those who expect critical accuracy and method; which every writer fhould aim at. It may therefore be observed, that fome confentaneous difeafes have been longer dwelt upon, and their remedies oftener hinted, than might be neceffary for medical readers. Not that I wish to be thought capable of writing any thing in a finished manner; I only beg the liberty to offer for public use such remarks as a long acquaintance with the fubject has furnished. And here it may not be improper, by way of farther apology to obferve, that whatever merit former publications may poffefs, it may, nevertheleis, with great propriety be remarked, that they either make a part of fome larger work, too voluminous to answer the particular 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 entirely overlooked.

A 2

It

It has been generally lamented by writers on thefe difeafes, that this branch of medicine has remained too much uncultivated. One principal caufe of fo ftrange a neglect has arifen from an idea fome people have entertained, that the complaints of infants being imperfectly underftood by medical people, from their inability to give account of them themfelves, it is fafer to entruft them to the care of old women and nurfes; who, at leaft, are not likely to do mifchief by violent remedies, though they may fometimes make ufe of improper and inadequate ones.

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

It is true, indeed, fome laudable attempts have been made of later 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 is therefore yet to be wished, that fomething farther were advanced on the fubject, and that the weak objections made against procuring the best advice were more powerfully combated. And this is the more neceffary, becaufe those who have the greatest interest in the fubject, the most authority on the occafion, and the fincerest affection for their offspring, have frequently the greatest A 3 objections

objections to medical affiftance, till it is, oftentimes, too late to employ it with effect.—I may, indeed, be very inadequate to the tafk of obviating fuch prejudices, but I fhall ftate an argument or two that has always appeared to me of great weight.

One objection already alluded to, taken from the confideration of the incapacity of infants to defcribe their complaints, has been ably difcuffed in a treatife written about twenty years fince, by Dr. Armstrong. It is apply 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 confeffedly require the greateft affiftance; fuch are attacks of phrenzy, delirium, and fome kinds of convultions; to which may be added, all the complaints of ideots and lunatics. But thefe have been fuccefsfully treated in every age, not excepting even the

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the latter, and the melancholy fubject happily reftored to fociety, his family, and himfelf.

It has likewife been observed, if infants for this reason are to be excluded the benefit of a phyfician's advice, it is difficult to fay at what age they may fafely be intrusted to their care; fince at the age of five or fix years, they would frequently miflead the enquirer, who fhould truft to their own account of their complaints. Their ideas of things are too indiffinct to afford us fufficient information, and they accordingly often call fickness at the ftomach, pain, and pain, fickness; they will frequently make no reply to general queftions, and when they are asked more particularly whether they have any pain in one or another part of the body, they almost 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, and the faithful account given by the parent, or an intelligent nurse. This I am so 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 difease. Every diftemper may be faid, in fome fense, to have a language of its own, and it is the bufinefs of a phyfician to be acquainted with it; nor do those of children speak less intelligibly* .- Limited as is human knowledge

* In neither of these sentiments do I stand alone; HARRIS, of whose work SYDENHAM is thought

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ledge in every department, there are yet certain principles and great outlines in phyfic, 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 afk then; is it education, is it observation and long experience, that can qualify a perfon for the fuperintendance of infants, or the treatment of their complaints? Surely all these fall eminently to the

thought to have fpoken fo highly, has faid the fame things—Incertæ verò diagnofews (quæ multùm obtinuit) querela non tam a fymptomatum defectu, quàm a præposterâ ac ineptâ medendi ratione ortum suum duxisse videtur. (page 8.) And at page 3.—Etenim asserere non verebor morbos i!lius ætatis generê paucissimos esse, et gradu tantummodò disserre ; imò curationem puerorum multò tutiorem ac faciliorem, quàm virorum ac mulierum. De Morb. Infant.

fhare

[10]

fhare of regular practitioners, to the utter exclusion of nurses and empirics.*

Having briefly flated 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 imagined, fo their number is comparatively finall, their caufe uniform, and the treatment of moft of them, fimple and certain +.

For the proof of this, as well as in order to eftablish a rational practice, I shall first confider the causes and diagnostics, or specific nature of their complaints, before I attempt to enter upon their cure.

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

† Facillimè inquam in morbos dilabuntur infantes, et nisi aut serius aut imperitius tractentur, facillime in fanitatem restituuntur. HARRIS de Morbis acutis Infantum.

And

And here I fhall not attend to the various remote caufes, but fhall confine myfelf to a practical confideration of the fubject, and briefly point out their obvious occafions and fymptoms. And on this account, I fhall not take notice of the various changes which nature herfelf induces during the growth of the infant, as it paffes from one ftage of life to another; which is, doubtlefs, a remote caufe of fome of their complaints.

The most ordinary CAUSES then may arife from the vast glandular fecretion of infants; 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 besides these, there are innumerable glands fituate in the mouth, fauces, the cesophagus, stomach, and intestines, which are continually pouring out their contents into the first passages. This is, doubtless, a wise provision of nature,

ture, and I cannot, therefore, think with Dr. Armstrong, that the gastric juice renders the chyle lefs fit for abforption; but, as we do not thoroughly follow her dictates in the management of children, as to their food, cloathing, &c. this abundance of flimy matter often overloads the ftomach and bowels, the constant feat 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 muscular fibres, and the great irritability of the nervous fystem. In addition to these may be reckoned the want of exercife, which at a more advanced age, happily for us, we are obliged to make use

* Non quod ætas per fe fit caufa ullius morbi, est enim res naturalis et temporis determinatio, sed quia disponit ad morbos quosdam facilius sufcipiendos, si causa eorum accesserint. PRIMEROS : de Morb. Infant. of, and which art, in general, does not duly fupply in regard to children.

Hence arife acidities in the first paffages, a constant 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 young children), is the cutting of the teeth, in which likewife the state of the bowels is very much concerned.

Upon each of the above heads, it may be neceffary to make farther obfervations as we proceed, in order to take notice of fome accidental caufes arifing from mifmanagement, or errors in the non-naturals, as they have been called ; the chief of which will turn upon the quantity of nourifhment administered to infants, and an inattention to a coffive state of the bowels; to which might be

* SYLVIUS DE LE BOE. HARRIS.

added,

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added, a neglect of making the child break wind foon after feeding, or coming from the breaft.

The symptoms of these first diseases of infants (by which we also judge of their nature), are chiefly retention and excretion; four belchings; nausea; vomitings; purgings, the nature of the matter thrown off; watching; inquietude; thirft; heat; the manner of breathing and of crying; retraction of the lower extremities; and puffules, or eruptions, external, or internal. The pulse and urine are lefs certain marks than they are in adults. To these may be added, the openness or firmnefs of the fontanelles, or moles, and of the futures, and the relaxation or contraction of the skin in general, and of the fcrotum in particular.

Having thus briefly adverted to the general caufes and fymptoms, I shall now proceed to the confideration of the diforders orders themfelves; and shall begin with the retention of the meconium.

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The MECONIUM is that black, vifcid, or tenacious matter, which it is well known, every infant parts with by flool, for the two or three first days after it is born, or retains it to its manifest injury.

As the fource of children's complaints has already been faid to originate from fomething amifs in the first passages, according to the most ancient opinions*, I have long fuspected, 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 their coats, 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 place, that though it should not be all retained, yet a part will often remain

HIPPOC, CELSUS, ÆGINET.

much

much longer than has been ufually imagined, and will come away perhaps unnoticed at a late period, where no retention of it has been fulpected.

The meconium appears to be no longer of use after the child is come into the world, unlefs it be to keep the inteffinal canal from collapfing, till it be replenifhed 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, being chiefly a bilious fecretion, aud cannot fail to produce flatulency, indigeftion. and various other evils. And it is, doubtless, on this account, that provident nature has imparted an aperient quality to the first milk of all animals; a certain indication to the rational species, to affift the expulsion of this matter, now no longer required. For though a child fhould

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fhould even be fuckled by its own mother, (in which cafe, there is doubtlefs, lefs occafion for other affiftance) yet we know that nature doth not, in every inftance, always fully accomplifh her owr defigns: and it is from fome ftriking inftances of the truth of these observations, that I have faid fo much on this fubject, which I have also been the more inclined to, because all late writers have paffed it over almost in filence.

I am aware that all those who effeem medical people to be officious diffurbers of nature, have objected to their affistance in this inftance, and conclude that the would do the bufines much better if left to herfelf. And there are even fome physicians of this opinion, amongst whom I find Dr. BUCHAN, whose abilities and reputation claim particular attention, though he perhaps may not be fo much engaged amongst very young infants, as those whose peculiar pro-B vince vince it is to attend them from the birth. But there can be no general rule 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 conftantly affifting in this work. It is the province of art to fuperintend nature, and not only to guard againft her exceffes, but fo to watch over her, as to enfure the accomplifhment of her intentions, whenever we perfectly comprehend, and can effect them without the rifque of doing harm.

For this purpose, amongst others, a new remedy has of late years been recommended, as preferable to any purging medicines whatever. - Mankind

* Vix ulla perpetua præcepta medicinalis ars recipit. CELSUS. Præf. Lib. i. P. 17.

+ Dr. ARMSTRONC on the Difeafes most fatal to Infants. 1767.

has

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has ever delighted in extremes ;-- no fooner has any thing, formerly judged to be hurtful, or even poifonous, been found in certain cafes, to be very ufeful, 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 use of antimonial wine, 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 universal remedy. But wherefore give an emetic, calculated to empty the flomach, in order to expel the meconium from the lower bowels ? §

B 2

It

§ On examining the first passages of still-born infants (newly dead) it appears, that the large intestines contain the true meconium; the small intestines only a thin bilious fluid mixed with a little gastric juice. The stomach contains still less, as no bile can enter it but by regurgitation from the

[20]

It is univerfally allowed, and by this writer alfo, that emetics are not to be administered when the intestines are full, which in this inftance is precifely the cafe. It is true, the antimonial wine 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 fuch things whole proper operation may be depended upon? Not the ftomach, but the bowels are the natural and fafe outlet for most of children's complaints, and a want of due attention

the duodendum, and the gastric juice is in small quantity, not enough to be brought up by an emetic without violent ftraining; which I should imagine it can answer no good end to excite by a vomit, the first hour a child comes into the world.

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to this circumftance has been productive of fome evils, 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 fhould be of a kind that will create as little diffurbance as poffible, and efpecially fhould not be of an offenfive or indigeftible nature; tho' fuch have been very commonly advised. In general, indeed, a very little matter will fuffice; perhaps a little folutive fyrup of Thom the rofes, diluted with fome thin gruel, and given occafionally by tea-fpoonsful, will mostly answer the end, will also ferve to keep the child quiet, and fo prevent the nurse from giving it improper food. But if this should fail to procure stools, a few grains of Turkey rhubarb (or a tea-spoonful of its vinous tincture diluted as above) will be found preferable to the indigeftible oily mixtures in com-B 3 mon

Whey x thomey mon use. ‡ In the country, where the may be provabove medicines may not be at hand, to can a little fresh whey and honey will be the mean use excellent fubstitute.

F 22 7

The objection now made to oily medicines is very much increased, from nurfes fcarcely ever giving the quantity that is directed, in the course of the first twenty-four hours, as it is always defigned; and administering the rest 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 if administered in proper time, were defigned to prevent. Not to add that, fome kind of oily medicine being the usual purgative on this occasion, is an inducement to parents and nurses to procure a repetition of it, and to administer it when-

1 See HARRIS.

ever

ever an infant happens to be coffive during the month; and from whence the above evils may be frequently induced.

But it has been obferved, the meconium is not always difposed to come away, even by the affiftance of common purgative medicines. Having, therefore, begun with fuch as the above, if the child has no stool for twelve or commended fourteen hours after birth, and especially to him away if it should seem to be in pain, a glister the minim 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, no evacuation at all will be procured by these gentle means; for, as far as I have feen, wherever I could procure one copious flool by a glifter, or gentle laxative, the reft of the meconium has come away with little, or no farther affistance. But as it sometimes B4 happens,

happens, that neither glifters nor purgatives have any fufficient effect for feveral days, very powerful means muft then be made ufe of; there being reafon to fufpect a fufpenfion of nervous influence. I fhall clofe this fubject therefore, with an inftance of this kind, not the only one I have met with, as a proof of what powerful remedies may fometimes be required, and how neceffary it is to pay fome attention to this firft complaint of infants.

The child was born of very healthy parents (not at all of conflipated habits) after a quick, and comparatively eafy labour, on the morning of the twentyfecond of February, 1784.—To avoid prolixity, I fhall not flate the cafe in the form of a journal, but fhall only obferve, that the child took a little rhubarb an hour or two after it was born, but having had no flool when I faw it the next day, I ordered a glyfter to be thrown up. up. In the evening, the child lay in a kind of comatofe ftate, and when rouzed it moaned, but feemed unable to cry. It continued pretty much in this ftate (at times, feemingly in great pain, and evidently 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, fave a few fpots on the cloths about the fize of a fhilling, which many till the twenty-feventh, and thofe were whether very fmall, hard, and lumpy. On the hightweit twenty-eighth it had more of this kind, we given and it had not till the twenty-ninth any to bring thing like a proper flool, which was also way the 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 infufion of fena, two drams of rochelle falts, four grains of jalap, and a grain of calomel; calomel; befides purging glyfters, and the ufe of the warm bath. The child after this took fix drams of caftor oil, befides feveral dofes of manna; and at another period, four grains of ipecac. at two dofes, and forty drops of antimonial wine, at four times (in the courfe of an hour) without any effect. Three days after the child got rid of the meconium, the thrufh made its appearance; which was flight, but continued above three weeks.

INWARD FITS.

THE retention of the meconium is capable of giving rife to various complaints, that are connected with the ftate of the first passages; among which, that of inward fits has lately been taken notice of by fome medical people, but I think scarcely deferves the name of a difease. So much, however, has been said about it, as to alarm many a fond mother, and

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and on this account it demands an attention. The chief, and conftant fymptom of this kind of fit, as it is called, is the infant's little mouth being drawn into a fmile; which whoever has noticed, muft have beheld it with pleafure.

If the complaint extends no farther than this fmiling, which is generally in its fleep, it arifes from a little harmles wind ; for which 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 action on the nerves, from the fenfation produced by tickling with a feather, to that of a hard blow, or a violent stroke. The first may be faid to be pleafing, and fuch, I doubt not, is the ftimulus in queftion on the nervous coat of the ftomach of little infants, and therefore produces the most agreeable fmile, which I have always gazed

gazed at with delight. 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 many an unpleafant dofe on the occafion. They are at the fame time treating the true convultion, whilft flight, in the fame way, being led into the error by the idea of inward fits; a term they are ever using, but have no precife ideas of, nor do any two of them mean the fame thing by it. The word, therefore, ought to be 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 fhould

* Infants, as well as adults, do fometimes, indeed, die fuddenly without any manifest convulfion. But this more frequently happens after over-feeding, and arifes from a spasm of the stomach; or sometimes of the heart or lungs, and infants fhould fleep too long, and this fmile fhould often return, it may be taken up, gently tapped on the back, and its ftomach 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 ftomach, and the child will go to fleep again quietly. This complaint is largely treated of by Dr. ARM-

infants may then be faid to die of inward fits, there being no external convultion; but this is not the kind of affection ufually underflood by that term.

† EXERCISE is the grand mean of health.— The irrational fpecies are capable of it almost as foon as born; and though infant children are not, they are passive, and can be *exercifed*. Nature and instinct point out the expediency of it, and the fond mother who follows only her own inclination, naturally adopts it, and is continually stroking and playing with the little idol of her heart, whenever it is awake; and as it grows older, she naturally gives it more exercise, as it can bear it, and according to the fatisfaction the infant never fails to manifest on the occasion.

STRONG,

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STRONG, who wifnes to give a few drops of antimonial wine; 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 convulsion, in which the eyes are difforted, and the mouth is discomposed, instead of putting on a fmile, or elfe he is prefcribing for another difease 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 endless to administer emetics; the cause of the complaint is obvious, and upon the removal of it the remedy must rest.

But as coffiveness and wind do not always arise from one and the same cause, and are productive of other complaints than those above mentioned, I shall confider them by themselves; which, it is prefumed, will be pursuing a much more rational

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rational plan, than adhering to a term obscure in itself, and which tends to mislead the generality of readers.

DISORDERS arifing from COSTIVENESS and WIND.

IT has been usual with ancient writers, when concifeness and accuracy were not fo much confidered as in the prefent day, to treat of coffiveness and wind as diffinct heads of complaint; and as this little tract is calculated for general usefulness, and not merely for medical readers, it may not be altogether improper to comply with this cuftom. Wind is but a mere fymptom of fome preceding or attending complaint, nor are its troublesome effects either occasioned or increased, by air taken in with the food, as many people have imagined; atmospheric air being effentially different from that produced by indigeftion, whether

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, however, proves a fource of many complaints, and creates watchfulnefs, ftartings, hiccoughs, vomitings, and, in the end, purging, watery gripes, and even fatal convultions, if not timely attended to.

Coftivenefs is either conftitutional, or accidental, which ought always to be diftinguifhed : the latter is ufually the effect of heavy and improper food, the former is oftentimes harmlefs; and children of fuch a habit of body are frequently the most thriving. If the mother chances to be very conftipated, her children generally are fo; and fuch a difposition ought not, I believe, to be counteracted, though it will be neceffary carefully to watch it. In fuch inftances, a quarter of an ounce of manna, or the like quantity of the folutive fyrup of rofes,

roses, may be put into any liquid, and as much of it given by tea-spoonsful, as fhall open the belly. And here it may not be useles to observe, that rhubarb will not be the fitteft purgative, though it be joined with magnefia, and I only mention this, becaufe fuch is the almost conftant prescription of nurses on every occafion, whofe indifcriminate use of it is generally needlefs, and fometimes prejudicial; rhubarb alone, in common cafes, anfwering all the purpose intended, whilft the magnefia makes an unneceffary addition to the bulk of the medicine, which fhould be always avoided for children.

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

But fhould any bad effects arife from fo conflipated a habit, and the child be griped, which may be known by the drawing up of the legs, or of the fcrotum, and a certain manner of crying; or fhould the coffiveness be accidental, it must speedily 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

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child be not ufually coffive, rhubarb is often the best medicine, as it strengthens the bowels afterwards, children being much more fubject to an over-purging than to almost any other complaint. And here I would observe, 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 the bowels, which had long continued obstinate, though, in other refpects, properly treated.

As there is ufually much acidity inmay the first passages in costive and windy habits, a little magnefia may be given for a few days after the coffiveness has been removed. The nurfe's diet should likewife be attended to. If any fymp-C 2 toms

toms of flatulency ftill remain, which will not often be the cafe, if it has arifen merely from conflipation, a little dillwater is the most harmless carminative. But should it be an attendant upon a lax state of the bowels, and indigestion, its remedy will confiss in the removal of those complaints, which will be noticed in their place.

WATCHING, OF WANT OF SLEEP.

THIS is frequently a fymptom of the foregoing complaints, and is to be removed by opening the belly, and afterwards administering fome pleafant and carminative pearl julap; which will then frequently act like an opiate * by refloring rest. Sometimes, indeed, this method fucceeded fo well, when given in large doses, that I have been suspect-

* See HARRIS De Morbis acutis Infantum.

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ed of having given fome narcotic medicine; which would in thefe cafes prove exceedingly hurtful, as the watchfulnefs is a mere fymptom, and not a difeafe. I cannot, therefore, avoid taking notice in this place, of the deftructive cuftom *fricter com* amongft nurfes, of giving fyrup of poppies, Venice treacle, and Godfrey's cordial; which, however ufeful in their place, act always as a poifon, and fometimes not a very flow one, when injudicioufly adminiftered, and never can be more fo, than in a coftive flate of the bowels.

Watching in very young infants is always owing to fome complaint in the firft paffages, and frequently to coffivenefs. I fhall only obferve farther, if watchfulnefs 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; C_3 of of which farther notice will be taken on the head of Management of children, at the close of this work.

The preceding complaints would naturally lead me to confider the Thrufh, and other eruptive diforders, but it is neceffary first to mention a difease or two, which appearing only very soon after birth, would otherwise be much out of place.

ICTERITIA OF INFANTILE JAUNDICE.

THE jaundice of infants feems always to have been improperly conceived of. Thofe who have written only on children's difeafes, have ufually paffed it over in filence, whilft others have confidered it as rather a ferious difeafe, and have preferibed as for the jaundice of adults. On the other hand, parents and nurfes have ufually accounted the common yellownefs that appears about the

the third day after birth, as the true jaundice. Neither of these opinions feems to me to be just, for the latter of thefe appearances requires no attention at ail, and though infants are not fubject to the troublesome jaundice of adults, they neverthelefs are liable to icteric affections that 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 never tinged as in the jaundice of adults, though they perhaps would be, if the complaint was long neglected, and the child fuffered to be coftive. I have however, waited fome days to fee if the yellownefs would go off of itfelf, as the ufual tinge does, but it has increased rather than diminifhed. It arifes, I imagine, from vifcid matter obstructing the biliary ducts which open into the duodenum, and C4 therefore

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therefore requires a little emetic. Antimonial wine is a very proper one on this occafion, as it may likewife procure two or three flools; but as children in this complaint are not eafily made to womit, if the wine fails, I would advife three or four grains of 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 feldom under this treatment continues more than ten or twelve days.

ANOMALOUS INFLAMMATION.

INFANTS are liable to a very dangerous kind of eryfipelatous inflammation, not noticed, that I know of, by any writer; and which I have not often met with

[41] with but in lying-in hofpitals. It never appears, I think, later than the month, but most frequently shews itself a few days after birth. It attacks the most robust, as well as delicate children,

and in an inftantaneous manner; the progrefs is rapid; the fkin turns of a purplifh hue; and foon becomes exceedingly hard.

The milder fpecies of it appears often on the fingers and hands, or the feet and ancles, and fometimes upon, or near the joints, forming matter in a very fhort time. The more violent kind is almoft 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 fphacelate; efpecially in boys, when it falls on the forotum. The penis fwells, and the prepuce puts on on that kind of emphyfematous appearance which it has in children, when a ftone is flicking in the urethra.

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Various means were made use of at the British Lying-in hospital without fuccess; though for a time some benefit was received from faturnine fomentations and poultices, applied on the very first appearance of the inflammation, but it foon spread, and a gangrene presently came on; or where matter had been formed, the tender infant funk under the discharge. It is now fome years fince I proposed making trial of the bark, to which fometimes a little confectio cardiaca has been added; from which time feveral have recovered. Dr. GARTH-SHORE, one of my colleagues, has lately tried the application of linen compreffes wrung out of camphorated spirit of wine, in the place of the vegeto-mineral water, which has proved very fuccefsful in feveral inftances; neverthelefs, the greateft

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est number of infants attacked with this diforder, still fink under its violence, and many of them in a very few days.

APFHÆ, OF THRUSH.

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. On this account it is often neglected at its first appearance, whereby the acidity in the first passages, is fuffered to increase, by which the complaint will be aggravated. The thrush, however, is as much a difease, as any other that appears in the month, and is connected with the foregoing complaints; a proper attention to which, may very frequently prevent it. This

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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 of little white fpecks. 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 to the gullet, and is faid to extend into the ftomach. and through the whole length of the inteftines; producing also a redness 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 lafts for feveral weeks. I have feen this fo very often

often the cafe, that when I observe 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 the child be not exposed to cold. The thrush is faid to be generally attended with fever, but this is not usually the cafe, though the mouth is often fo much heated, as to excoriate the nipples of the nurfe, and becomes fo tender, that the child is often observed to fuck with reluctance and caution .- It is an old obfervation among ft nurfes, and there is fome foundation for it, that very long fleeping, in the courfe 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 nurses will seldom allow it to be cured if it does not; but the fact is, that its its appearance there is only a mark of the degree of the difeafe, and not in the leaft of its cure, and is not, therefore, generally to be wifhed for. The rednefs about this part is occafioned by the fharpnefs of the fecretions in the bowels, and confequently of the flools, which lightly inflame, and fometimes excoriate the parts about the anus, and in a bad thrufh will do fo long before the complaint is going off; but in the lighter kind, no fuch effects are produced, or are, at leaft, very flight.

The remote caufe of this difeafe, feems to be indigeftion, whether occafioned by bad milk, or other unwholfome food, or by the weaknefs of the ftomach. The proximate caufe, is the thicknefs, or acrimony of the juices fecreted from the glands of the mouth, fauces, ftomach, &c. producing heat and forenefs in thefe parts.

Much has been faid in favor of emetics, tics, especially antimonial wine, as being almost a specific for this difease, but I cannot say it has proved so with me; nor can I see any sufficient cause 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 fauces 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 a tender infant, in which the bowels are always the most natural outlet for its complaints; on which, therefore, nature uniformly throws throws the offending matter on almost every occasion, as appears plainly in dentition, 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 coffive; or if in the other extreme, and the child be very weakly, a grain or two of the compound powder of contrayerva in its flead. 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 color, has come on very rapidly, and the child is lufty and ftrong, a grain or two of the pulvis bafilicus may be joined with it, agreeable to the idea of HEISTER;

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HEISTER; but this must be given with caution. After the purgative, the teftaceous 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 tinctura amara well diluted, may be given two or three times with advantage.

The choice of the teftaceous powders, on which fome writers have faid fo much, is, I believe, of very little importance; the purest and softest are preferable. The defign of these medicines, being to abforb and correct the predominant acidity, their effect will be discovered from the kind of ftools they produce, and the dofe may therefore be increased or diminished, or they may be altogether difcontinued, as circumstances direct. In the mean time, if the child be fuckled, the nurfe's diet should be attended to, and in general, her usual quantity of porter D or

or ale, (which is almost always more than fufficient) should be diminished.

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In regard to topical applications, it is neceffary to observe, that as they have little to do in curing the kind of thrush to which infants are liable, 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 increase the foreness of the parts, (especially in the manner they are generally used) and to give a deceitful appearance of amendment. If the whole fauces and tongue are thickly covered with floughs, it may fometimes be neceffary to clean the mouth once a day; but it will in general be ufelefs, till the complaint is past the height, the floughs difposed to fall off, and the parts underneath inclined to heal. Proper applications will then have their use, both by keeping the mouth clean, and confiricting

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ing and healing the raw, and open mouths of the excretory veffels.

For this purpose, an hundred different lotions and gargles have been invented, which from the earlieft times have all been of an aftringent nature .- That of Dr. SHAW is a very good one, confifting of honey of roles, and spirit of vitriol; but nothing is preferable to borax and common honey, (about two feruples of the former to an ounce of the latter) which hangs about the fauces better than most others. It is also applied with more eafe, and requires only to be laid on the child's tongue, as often in the day as shall be neceffary to keep the parts clean, which it will effectually do, without putting the infant to pain, by being forcibly rubbed on. I must own, I have frequently been diftreffed, at feeing a nurfe rub the mouth of a little infant, with a rag mop, as they term it, till fhe has made it bleed; and this operation they D2 will

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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 state. Dr. ARMSTRONG acknowledgeshe never has met with it. I have seen only one instance of it, which was in a ftrong healthy child. After the ftomach and bowels have been cleanfed, I believe, a decoction of the bark, with a little cordial confection, is the most likely medicine to be of fervice, and is fometimes neceffary in the worft kind of common thrush, when the fucceeding floughs are very opake, thick, and of a dark color; which is, however, always a dangerous fymptom.

The RED-GUM.

THE red-gum is an efflorefcence on the fkin, appearing ufually in finall fpots, and

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and is confined to the face and neck ; but it fometimes 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 liquor; at leaft, I have never known what name to give to 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. Every species of this eruption is produced by the fame caufe as the thrush, 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 thrush is, usually, of its weakness. In the former, nature throws off the offending matter on the furface more completely than in the latter, and there-

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fore,

fore, when the eruption is flight, requires no affistance.

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On this account it is, I apprehend, that writers have not ufually taken notice of it, which I fhould not have done, but for the fatisfaction of parents, who are fometimes diffreffed on account of it, efpecially if it be of the more extensive, and rank fpecies. It is neceffary only that the child be kept moderately warm, otherwife the rafh ftriking in, it will fall on the first passages, and be fucceeded by fickness, or purging, (till the efflorefcence returns on the skin) or not unfrequently by the thrush, or a slight return of it, if the child has lately recovered from it.

CUTANEOUS ERUPTIONS.

INFANTS are liable to various anomalous kinds of rash, both in the month, and till the period of teething is over.

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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.

One fpecies is wont to appear about the time of teething, and fometimes on recovering from a fever, or fevere bowel complaint; it very much refembles the itch, and is confined to no particular part of the body, though it appears more frequently about the face and neck. This eruption is certainly falutary, and even critical, requires nothing but to avoid taking cold, and is mentioned only becaufe it is a very common appearance, and parents who are unacquainted with it, are apt to be alarmed at it.

There is another very common rafh, to which medical writers have given the

> * See HARRIS, Pagr. 22, 23. D 4. name

name of crusta lactea, which has a very unpleafant appearance, but is notwithstanding equally innocent with the former, and even prevents other complaints. I think I never faw an infant much loaded with it, but it was always healthy, and cut its teeth remarkably well. It appears first on the forehead, often extends half way over the face, in the form of large, loofe fcabs, and appears not very unlike the small-pox after they turn. Very little I believe is neceffary to be done; but in bad cafes a perpetual blifter may fometimes be of fervice. It will difappear of itfelf when the child has cut three or four teeth, though it may fometimes continue for feveral months. I have known teftaceous 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 for feveral months

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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 its appearance very early, and has then been mistaken by those who are not much accustomed to very young children, for the effect of lues venerea. I not long ago faw such a case, and advised only to keep the body open with a little magnesia; the complaint got no worse, and upon cutting some teeth, disappeared as usual.

In all eruptive complaints, taking cold ought to be carefully avoided, and the belly be kept open. If the child be 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, a few grains of the cordial confection in fimple mint water. If the fcabs become very dry and hard, which the crufta lactea will fometimes be, efpecially when they extend to the crown of the head, and feem to give pain, they may be touched with a little cream; 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 powder, and covered with a finged rag, but I fhould be very cautious of doing much more; as the fuppreffion of any confiderable eruption on the fkin may occafion the worft effects.

SORE EARS.

SLIGHT vefications 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 keep the cap from flicking to them, and thereby giving the child pain. They are, moreover, often very uleful, especially during bowel complaints, or the irruption of the teeth. But there is in fome children of a grofs habit of body, and especially about the time of dentition, a fpecies of ulcer that often requires attention, on account of its extending low down in the neck, occafioning great pain, and fpreading into large fores. In fuch cafes, 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 testacea and rhubarb, with a little nutmeg, to which is added either calomel, cinnabar of antimony, or æthiops mineral, the latter of which, I think I have found more ferviceable in eruptive complaints in young children, than feems to be generally imagined. But above all, fome mercurial fhould be made use of to the

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. Calomel. zj ad zij.

Ung. flor. Sambuc. Zj m. ft. linimentum.

A little of this liniment fpread thin on 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 used; and indeed has always fucceeded with me, when I have been told the fores have 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 some other complaints, of which I now proceed to take notice.

VOMIT-

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VOMITING.

VOMITING is certainly not a common complaint of infants, I mean when confidered as a difease, unless it be attendant upon fome other, of which it is then rather a fymptom, or the confequence of fuch complaint improperly treated. Neither are infants in health difposed to vomit frequently, unless the ftomach be 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 fhould the refidue of the aliment be forced off the flomach by an emetic, when it has already parted with all the oppreffive abundance ? This kind of puking is not attended with any violence to the ftomach : the milk, or other food seems to come up without any fenfible

fenfible action of the stomach, 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 flate, which is an indication to attend to it, if it happens frequently. Not that the milk ought not to curdle on the ftomach, which it always must do, in order to a due separation of its component parts, and is the only digeftion it undergoes in the ftomach. The whey and the rich oil are there feparated from the curd and earthy

* See PRIMEROS : de Morbis Infant.

particles,

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particles, the former being taken up by the lacteal, or milky veffels in the inteftines, is converted into blood, whilft the latter is carried down and expelled with the other excrementitious parts of the food, and gaftric juices. This 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 flomach having digefted what it had received, hath not power to push it forward into the intestines, 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

* 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.

tea.

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 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 fast 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 affistance.

If the vomiting, on the other hand, has arifen from acrid diet, a little further difcipline may be requifite, becaufe fome half digefted food has got into the bowels, perhaps, for feveral days

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, teftaceous powders, or magnefia, may be mixed with the food, or be otherways administered for two or three days, as the occafion may require. Should the vomiting be a fymptom attending fome other difeafe, its remedy will turn on the proper treatment of its caufe. Should that be the fudden difappearance of fome eruption on the skin, the child should be put into a tepid bath, the limbs be well rubbed as foon as it is taken out of the water, and then put to bed: and if the vomiting continues an emetic fhould be given, and afterwards a blifter applied to the pit of the ftomach.

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Having mentioned emetics, I fhall take this occafion to obferve, that the choice of them will be always beft de-E termined termined by the nature of the complaints for which they are administered. In those of the first passages, ipecacuanha is generally the best, but if a fever should attend, or it be wished to promote a gentle diaphores fis, those of antimony are preferable; or lastly, in disorders of the breast, the oxymel of squills.

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 medicines are then indicated as will brace, or ftrengthen that organ, and abate its fenfibility. For the former, a cold infufion of the bark, or chamomile 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 fpiritous fomentations to the pit of the ftomach,

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ftomach, or by the stomach plaister, 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 diftinct head; but this ferves to perplex matters, inftead of explaining them. If a child is not hungry, or hurt by fome parts of its drefs, there are always fymptoms attending, that will account for its crying, and other expreffions of pain. The caufe is indeed very commonly in its bowels, and manifefts itfelf by purging, which comes next in order to be confidered.

PURGING.

WHEN a vomiting is an attendant upon other complaints, it has been E 2 obferved, observed, that it demands a peculiar attention, and is then to be treated agreeably to the nature of such complaints; and there is, perhaps, none which it more frequently accompaniesthan a diarrhœa.

Vomiting and purging very frequently arife from unwholefome milk or other food, from a moift cold air, or from the fudden difappearance of fome eruption on the fkin. The purging is not then haftily to be ftopped, 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 hastily, 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,

moved, by creating a continual irritation in the bowels. A fufficient dofe or two fhould be administered at the beginning of the complaint, and afterwards abforbents. If the purging should still continue, an emetic will be neceflary, as purges do not always lie long enough in the flomach to carry off the offenfive matter it contains. After this, the child should be purged again, remembering always, that many complaints of infants, whether feated only in the first paffages, 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. If fuch repetition fails of fuccefs, though the diet has been carefully attended to, recourse should again be had to abforbents, and even opiates, without which, many bowel complaints will not admit of a lafting cure, from their great irrita-E 3

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irritability in 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 poppies, but even laudanum be given with the most perfect fafety; 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, and efpecially HARRIS, who in other refpects, has written fo well on their diseases. I remember being called to fee an infant two days old, who, through a mistake, had taken fome hours before four drops of laudanum. The parents were greatly alarmed at the child's lying in a flupid, comatofe state, without being able to take the breaft or open its eyes. I encouraged the father to believe the laudanum would do no kind of harm, if they would only attempt to get a little breast milk down with a tea-fpoon. Accordingly, though the

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the child lay fleeping above fix and thirty hours, it afterwards awoke perfectly well.

Purging in children it is to be observed, 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 discharge, therefore, but the cause of it is, in the first instance, to be removed, and the ill effects are to be guarded against by keeping the purging within bounds. For this purpofe, the chalk julep, as it is an aftringent only by abforbing the acrid, or changing the acid, and irritating matter, is as fafe as it is useful, is an excellent anodyne, and after the bowels have been well cleanfed, will ufually accomplish the cure.

Dr. ARMSTRONG takes occasion to fpeak against the use of absorbent powders, and prefers antimonial wine, because writers appear to depend so much

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on the former, from their known property of correcting acidity, previous to the exhibition of purges; and fays, that in cafes of extreme danger, a phyfician who is called in late, would, according to this practice, often find no opportunity for purging at all. But furely this is fcarcely an argument to prove the fuperiority of his method, fince no writer that I know of, ever defigned it as a rule without exception, and HARRIS, who has faid the most in commendation of the absorbent 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 cases of great danger, the antimonial wine, being both an emetic and a purge, ought to precede the use of the teftaceous powders. Instead of this, Dr. ARMSTRONG flides into a general conclusion from premises evidently limited; though he has advanced nothing

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thing against an established, and successful method of treatment. And I may add, that whilft he is fearful, the abforbent powders, (which nobody prefcribes without fome purging medicines) fhould check the loofenefs, and thereby increase the fever; he ventures after a repetition of antimonial wine, to administer what he calls a gentle paregoric to appeale 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 fhould continue for nine hours, a child will take half an ounce of fyrup, and this Dr. ARMSTRONG observes is the only medicine he gives, except the antimonial wine, which (notwithftanding the opiate) he supposes to be the efficient remedy.

It is of fome confequence to learn what part of the bowels is particularly affected; and fome indication may be had from undreffing the child, and carefully

fully examining the belly, as well as from the different expressions of pain it 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. Some regard is alfo to be paid to the kind of ftools that Purspy come away, which in a diarrhœa are fel-dom good, and are ufually diffinguished into the four and curdled, flimy, green, clayey, and watery, fome of which are at times also foetid; and in this cafe, fome powerful purgative, fuch as fena-tea, is oftentimes neceffary, if the child be not very young. Should thefe purgings return frequently, it will be very useful, (efpecially in the time of teething, or the striking in of fome cutaneous eruption) to procure a little discharge behind the ears, or to apply a burgundy pitch plaifter to the back. For the former purpofe, fome finely pounded Spanish flies may

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may be rubbed on the part, till a flight excoriation is produced; or perhaps a better, though not a common method, is to draw a coarfe, doubled thread through a piece of common blifteringplaifter, and lay it close behind the ears where they rife from the head, which will produce a difcharge exactly from the fpot where it is wont naturally to arife.

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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, to which a little grated nutmeg may be added. When they are green or clayey, a drop or two of the lixivium of tartar may be occafionally put into the other medicines, or a little foap be diffolved in the glyfters, which are effentially neceffary when much griping attends this complaint. The child's belly may likewife be rubbed with a little warm brandy.

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It may be proper in this place to take notice of a peculiar tightnefs and hardnefs of the fkin over almost the whole body, that fometimes attends that kind of purging where the ftools are of a waxy, or clayey confistence, and ufually takes place in the last ftage of the difease, always affording a very unfavorable prognostic. It very rarely appears, I believe, but in diforders of the bowels, on which account I have not affigned it a diffinct head, though otherwise of fufficient importance.

This fymptom, or perhaps rather difeafe, fomewhat fimilar to that called *hydebound* in quadrupeds, has not been mentioned in this view, by any writer on the difeafes of infants. The ancients,* indeed, defcribed a fomewhat fimilar affection, under the name of $\Sigma \tau s \gamma v \sigma \sigma s$, and *Cutis adfrictio*, but appear always to fpeak

* See GALEN. Lib. iii. and ÆGINETA Lib. i. of

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of it as a complaint of adults, often occafioned by cold. Dr. DENMAN first took notice of it in children, and has for fome years paid great attention to it. It feems to be a fpasm depending upon a certain, morbid flate of the first paffages, with which the skin is known to have a peculiar fympathy, which inftead of lying loofe and pliable on the cellular membrane, is perfectly rigid as if it adhered to the bones. Some children indeed have been born with the complaint, none of whom have been known to live. It is, I believe, not as yet well underftood,and is therefore not mentioned here, for much for the fake of any remedy I have to propose, as to induce practitioners to pay a proper attention to it, that a complaint of fo fatal a tendency, and hitherto but little noticed, may be fully inveftigated. The only infant I have known to recover, was under the care of Dr. DENMAN, who in a very dangerous complaint

plaint of the bowels, attended with this fymptom, directed a fuitable abforbent julap, made very warm with the aromatic volatile fpirit.

The true watery gripes, fo called, is efteemed the moft dangerous of all purgings; not that the having a few very thin ftools is an evidence of its existence, for in almost every purging of a few days continuance, the ftools 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 it takes runs almost immediately through it, with very little change, as in the lientery of adults. The first thing to be done is to give a puke, and afterwards a warm purge with rhubarb, if the difeafe is not far advanced. Very finall dofes of ipecacuanha, or a drop or two of antimonial wine, given every fix or eight hours, with a few grains of the cordial confection, appear to me amongst the beft

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beft remedies. To these should be added a starch glyster two or three times a day, and even a few drops of laudanum (either in the glysters, or with the last mentioned medicines, or the chalk julep) without which mere absorbents will often effect nothing.

It has already been hinted, that where 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 preferiptions, but it may not here be altogether amifs for fome readers, fince the following, confidered as a general medicine, has been found fo frequently ufeful, and will keep for a great length of time.

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

It was faid that bowel complaints of children frequently were owing to improper food, which on this account, ought to be peculiarly attended to; and when a purging has taken place, ought to be fuited to the nature of the flools. At the close of this work, in the few directions that will be given on the management of children, fome farther notice will be taken of the article of their food; at prefent, I shall only obferve, that cow's milk is often found to difagree with them, when their bowels. are disposed to be too open, at which times, a little lean mutton broth, or beef-tea is abundantly preferable. On the

the fame account, rufks, and bifcuitpowder 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 flomach, if there be not a predominant acid in the first passages. 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; which becomes a light and foft food, and fufficiently reftringent. I have often known more good from this diet, than from all the absorbent medicines ever devised, and have received more thanks for the prefcription, as it proves a permanent remedy. When children who are weaned, are

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are attacked with repeated purgings, and even broth is found to run through them, I have obferved no food fo generally useful 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 should not be given more than two or three times a day.

CONVULSIONS.

CONVULSIONS are of two kinds; the fymptomatic, depending upon another difeafe, and the idiopathic, faid to be an original complaint, and arifes from a morbid affection of the brain, though the diflinction be not perhaps perfectly philosophical, or accurate.

It is for want of fome fuch diferimination, however, that writers have had occafion to obferve, that children are much oftener fuppofed to die of convultions

vulfions than they really do; for though a convultion frequently clofes the fcene, it has generally arisen from the great irritability of their nerves, and violence of the difease under which they have laboured. Such original caufe may be a rafh improperly repelled, but is much oftener feated in the gums in teething, or in the first paffages, where some undigested matter, or fometimes pent-up wind, irritates the coats of the inteftines, and produces irregular motions throughout the whole nervous fystem. 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 convultions are owing to this caufe may be known by the complaints that have preceded them, fuch as loathings, coffiveness, purging, pale countenance, large belly, and difturbed fleep. If the child be two or three years old, it may be more F 2 readily

readily discovered, that there is a load at the ftomach; the tongue will be foul, the skin hot, and the pulse quick and weak. But if it be granted, that the convultions of children are generally fymptomatic, they may neverthelefs be faid to die of them more frequently than fome authors have allowed; for where a difease is disposed to produce convulfions which fometimes prove fatal, the convultion, though a mere fymptoin, ought to be carefully attended to; and may fometimes be prevented or removed, by its peculiar remedies, the difease which occasioned it being at the fame time properly treated.

Any little matter capable of irritating the nervous fyftem, will induce the fymptomatic convultions in fome infants, whilft others will withftand a great deal. For fuch habits as the former, the cold bath will be found the beft prefervative. Every young infant

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is, however, more or lefs, predifpofed to this complaint, especially from any confiderable disturbance in the first paffages, as was mentioned before, particularly the bad quality, or over thicknefs of the breaft-milk; and from frights of the wet-nurse. Of this I remember a remarkable inftance in a patient of my own, in whofe house a vifiter dropped down fuddenly 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 was feized with a fit, and lay either convulsed or comatofe, without fo much as taking the breaft, for the space of fix and thirty hours; though it was at length happily recovered.

The cure of every convultion will confift, principally, in removing the F3 exciting

exciting causes; which must, therefore, be inquired into. If from indigeftion and irritation in the bowels, whatever will expel the acid contents will cure them, if administered in time; and we ought generally to begin with a glyfter. If the ftools appear very foul after common purges, (in which cafe there will frequently be a dyfpnœa) a few grains of the bafilic powder may be given with great propriety. But if the difpolition to convultions continues, after the bowels have been pretty well emptied, antispafmodics should be administered,* fuch as tincture of foot or of caftor, spirits of hartshorn, a drop or two of

* 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 favorably of fome of thefe.—" Ufus horum (fays he) haud prorfùs improbandus eft, vel in tenellis : nempe quia acidum abforbendi facultate excellunt. Verum fummâ cautione" &c.

laudanum,

laudanum, or, what I have found remarkably fuccefsful, oil of rue; which though an obfolete medicine, I think I have never administered, when there was any chance of recovery, where it has not been ferviceable. Should the convulfions arife from the difappearance of a rafh, or of a discharge behind the ears, the warm bath, blifters, gentle purges, or a few drops of the aromatic volatile fpirit, bid the faireft for administering relief. But when the caufe is unknown, as the approach of fmall-pox, meazles, or other eruptive complaint, bathing the feet in warm water, and throwing up a glyfter, are the fafeft means. If from teething, after gentle evacuations, and other means directed under that head, blifters, oil of rue, laudanum, or Hoff-MAN's anodyne liquor are the grand remedies.

If convultions come on without any of the preceding fymptoms, they may F 4 be

be 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 aromatic volatile fpirit. If the fits are flight, and return often, iffues or fetons fhould be made between the fhoulders, or in the neck, and be kept open for a length of time. But it generally happens that this fpecies of convultion in young children terminates very foon, fometimes in ten minutes, and is indeed often fatal before any means can be ufed. Indeed, I believe when they are fo fuddenly fatal to very young infants, they are more frequently fymptomatic, and owing to overfeeding; in which cafe, a vomit, or if there be not time for that, paffing a feather into the throat, might poffibly,

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poffibly, have a happy effect. 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.

It is to be noted, that fymptomatic convultions are fometimes the effect of a falutary effort of nature, to produce a crifis in fome difease the child labors under; in which cafe, great caution fhould be used not to be over officious : bathing the feet in warm water however, as mentioned before, will be perfectly fafe, and perhaps uleful .- Having spoken of opiates, I shall just observe, that though they are often very ferviceable, when judicioufly prefcribed, they become very hurtful if improperly administered. They will always be fafe, where convulfions continue after the first exciting cause has been removed; or where they are fo violent as to become an obstacle to administering proper remedies; or when the

the original complaint is of a spasmodic nature. When convultions return frequently, it is of importance to attend to the diftance of the paroxy fins, or returns; from which a much better indication may be had of their violence and 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 difease is more dangerous, than where violent fits are attended with long intervals .- A very common caufe of convultions, not yet mentioned, is worms; the cure of which will depend on the proper treatment of that complaint, and will be noticed in its place.

TEETHING.

THE complaints arifing during dentition feem to come in with propriety after the foregoing, most of which are blended

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blended with it, the first passages being always more or less affected. The state of dentition is likewise 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 moft important period of the infant flate, and fubjects it to manifold complaints and dangers. Some writers indeed, and particularly Dr. CADOGAN*, and Dr. ARM-STRONG, feem to think otherwife, and that teething is fcarcely to be ranked amongft the difeafes of infants. They have imagined that children would cut their teeth with no more danger, if otherwife healthy, than adults, who often cut their wife teeth, fo called, at an advanced age, without any difficulty, and always

See his Effay on Nurfing, &c.

without

without hazard. They likewife obferve that many children get their teeth eafily. But this argument must fuppofe the healthieft, and beft nurtured children, to be, in all respects, in the fame circumftances with adults, which is, by no means the cafe; as they are liable to fever, dangerous purgings, and even convulfions, from caufes that would, in no wife, affect the latter : nor can they ftand under those complaints fo long as adults, nor endure the neceffary remedies. For the fame reafon, the meazles and fmallpox carry off such numbers of infants, when attacked by them a little more feverely than common, whilft 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 moft

moft advanced ftages of the complaint, notwithftanding fome parts may be actually mortified. I have, therefore, no doubt but the time of dentition ought to be ranked amongft the moft dangerous to infants, and that the greateft attention ought to be paid to it; though it is probable, Dr. ARBUTHNOT greatly over-rates its fatality, when he fays that one child in ten may be fuppofed to fink under it.

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This period ufually commences between the fifth and tenth months, and the procefs of the firft teething continues to the eighteenth at the leaft, and fometimes much longer. 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, there is frequently a confiderable fpace, before the next under teeth come out; but fometimes, though not often, fix or eight are cut in a hafty fucceffion. Children dren fometimes cut their teeth irregularly, or crofs, as it is called, both by the teeth appearing first in the upper jaw, and alfo at a distance, instead of being contiguous to each other : this is accounted, and with fome reason, an 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; a loofenefs, gripings, green flools, watchings, flartings in the fleep; the child flrieks often, and thrufts its fingers into its mouth : and thefe fymptoms are fometimes followed by a cough, difficult breathing, fits, fever, 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

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at twenty two months old,* though it lived to grow up; but at the age of five years became fcrofulous. Therefore, air, exercife, wholfome food, 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 near. Iy as other acute difeafes with local inflammation. If the body be at all bound, fome opening medicine fhould be adminiftered, and it is to be obferved, that even a confiderable degree of loofenefsis ufeful; few children cutting their teeth fo well as those whose bellies are at this time much more than commonly open. Diluting drinks are also very neceffary, especially if the child does not fuck; with a light food, in fmall quantities, and frequently taken. If much fever attends, the loss of a little blood, in

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

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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 advifes, may be applied behind the ears, and is generally ferviceable. Glyfters are alfo very useful, and gentle fweats, efpecially of tartar emetic; which befides opening the belly, often operates in this way : a blifter fhould likewife be applied between the fhoulders, particularly if there be any difposition to fits. And, indeed, if ftools do not afford fome confiderable relief, there fhould generally be fome difcharge from the fkin; fince a purging, and cutaneous eruptions, when fpontaneous, are the grand means of easy dentition. A little discharge should, therefore, be kept up behind the ears, by rubbing the parts with Spanish flies, applying a thread as before directed, or putting on a small blister; which

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which may be kept open. A burgundy pitch plaister laid on the back will fometimes fuffice, which should be renewed every ten days, till the symptoms disappear, or the teeth come into sight. Even before this period, light scarifications of the gums are very useful, by taking off the tention; 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 fhall close what I have to offer on the plan of treatment, by obferving that the indications certainly are to affift the irruption of the teeth, and to moderate the inflammatory and other fymptoms. It has been obferved, that a purging is beneficial, and it is, indeed, furprizing how confiderable a diarrhœa children will ftand on this occasion, and how very bad the ftools will often be for many weeks together, and a child happily ftruggle through; though at G another another time, fo much purging, and fuch bad ftools, with a continual fever, would prove infallibly fatal. The diarrhœa is therefore, not only to be cautioufly treated according to the directions already given under the article of purging, but is oftentimes rather to be encouraged than fuppreffed.

For the fever of dentition, befidesbleeding, the absorbent powders are eminently useful, and are, in variousrespects calculated to afford relief. Tothese, sometimes a grain or two of Dr. J'AMES's powder may be added at bedtime, 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 ts very often useful, joined with the testaceous powders, or a little of the compound powder of contrayerva .---SYDENHAM directs three or four drops of. 131130.94

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of the aromatic volatile fpirit, in a fpoonful 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 increafed, 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 not very great, and the breathing not difficult.

When it is found neceffary to lance the gums (which is ever, at leaft, a fafe operation) it fhould always be done effectually, with a proper gum lancet, and not with a needle, a fixpence, or fuch like inftrument, which will not fufficiently divide the gum, or the ftrong membrane that covers the teeth. The lancet fhould always be carried quite down to them, and even be drawn acrofs the double teeth. This little operation certainly gives little or no pain, G_2 and 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 convulsions, 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

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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 efteem it ought to be, is often inexpressibly useful, and appears to have faved very many lives, after the most dangerous symptoms had taken place, and every other means of cure had been made use of.

It may be fafely repeated, the fcars doing no kind of harm. And indeed it will be frequently neceffary to repeat it, 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 con- G_3 vulfions

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vulfions will fometimes arife from only one point of a large tooth offending the periofteum that covers it, and being nearer the furface than the other points, the lancet fometimes does not compleatly divide the membrane that covers the reft; and this part not being injured by the tooth, the fymptoms fubfide 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 periofteum, 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.

Some writers however, and Dr. MIL-LAR particularly, have advised, not to cut

cut quite down to the teeth, but only to fcarify the gums, unlefs the teeth are very near. He 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 fecond teething of children. For though the first fet (which are defigned by nature to be only of fhort duration) fhould actually be injured by the lancet, the fucceeding ones are not at all likely to be affected by the carious flate of the former. For the first teeth of infants constantly become carious even to the very 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, which are even expelled by the force and growth of the new ones, they are

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are found to fuffer no injury at all from the contact. I have dwelt the longer on this head, becaufe writers are not agreed on this fubject, and it is a matter often-times of no fmall importance.

It is common to touch the gums with oils and mucilages. If any thing of the kind be made use of, a little honey, I believe, is as good as any thing, or lightly acidulated with spirit of vitriol; and the best kind of coral is a crust of bread, or a piece of liquorice root, which will yield a little to the prefiure of the gums.

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

Children

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Children will fometimes have ulcerated gums in teething, even 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 roughnefs to a little honey, is ufually fufficient for this purpofe. But fhould this fail in any cafe, it must be treated as directed under the head of canker.

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 exposed for

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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, as HIP-POCRATES has judicioufly obferved*; unlefs the few that arife from fome more permanent irritating caufe.

Those to which young children are the most liable, are from teething, foul bowels, worms, fome eruptive and very contagious complaint, or from taking cold. The latter, if fevere, will always be attended with a cough, hoarseness, and fome difficulty of breathing, and often with running at the nose or eyes, which will diffinguish the fever from all others, except it be the measles; which will be attended likewise with violent fneezing, and a peculiar appearance of the eyes not often met with in a common cold.

* Lib. de Natura Humana.

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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 instead 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 discharge happens to be confiderable. But if the fever and difficulty of breathing fhould not be very confiderably abated by the blifter, children though within the twelve-month, will bear and even be much benefited by the loss of a little blood,* at least by the application of two

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

GALEN indeed forbad bleeding till after fourteen years of age, but fince the time of CELSUS, that abfurd idea has been exploded. RHAZES permitted two or three 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.* Oily medicines, likewife, made into a neat emulfion, are often ufeful, efpecially if the child be not at the breaft; but they fhould be preceded by an emetic of antimonial wine, as there is ufually much phlegm on the ftomach; children

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.

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

never

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never coughing it up. On this account alfo, the body fhould be kept perfectly open, and this purpofe is ufually well anfwered by fmaller dofes of antimonial wine, or of Dr. JAMES'S powder; but if they fhould fail to procure flools, as they fometimes will, where there is muck 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 preferibed 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 the indiferiminate use of antimonial wine, which has induced some people to make free with medicines of this clafs, who are in no wise competent judges.

judges*. But where fuch medicines are found to agree, children frequently stand in need of no other; though if the fever be very confiderable, I have given nitre to advantage to infants of only a few months old. I often join it with a little of Dr. JAMES's powder, proportioned to the age, and about two grains of the compound powder of contrayerva .- If the head be 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 .- If the chief complaint be a cough, attended with very little fever, the breaft milk is often as good a balfamic as can be had ; but if the child be dry-nurfed, a little fyrup of balfam is both pleafant and ufeful.

If the fever be not owing to taking

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

cold,

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cold, to worms, teething, or fome eruptive complaint, it will generally be found to arife from fome foulness in the first paffages, in which cafe, opening the belly, and afterwards giving a puke and the testaceous powders, usually remove it. Thefe absorbent powders are an admirable medicine, as well for the little fevers, as for almost all the complaints of very young children. 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 abolishing the use of cordials, and other heating medicines in the treatment of their complaints. And though abforbents will not, perhaps, do every thing he has imagined, yet are there very few medicines of fuch general ufe. But fhould the fever withftand these common remedies, or be found to increase, it will be neceffary to give fome of the above medicines,

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medicines, 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 a few drops of the aromatic volatile fpirit, in a little water, four or five times a day.

HECTIC FEVER and MARASMUS.

NOT a few both of the preceding and following complaints are fometimes found to induce hectic fever, and marafmus, or a wafting of the whole body. I have nothing new, indeed, to offer on this head, unlefs it be by way of encouragement to hope for a better iffue in the hectic fever, under certain circumftances, than we are wont to expect.

This fever as it is apt to arife from other complaints, is very often owing to their having been imprudently treated, efpecially by fuppreffing fome eruption or difcharge from the fkin, or incautioufly

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oufly ftopping a purging during the time of dentition. In fuch cafes, and indeed whenever the hectic fever is confirmed, the mefenteric glands become affected, are exceedingly enlarged, and often fuppurate. In this ftage of the complaint there is no hope; but there is fometimes a threatening appearance of hectic fever, where nevertheless nature effects a falutary and wonderful change, and will reftore the emaciated infant as from the very jaws of death. And this, indeed, is very often the work only of nature, art doing no more than fuperintending her work, and preventing her being counteracted by the use of improper medicines, or diet.

Such falutary turns in this fever are, as far as I have obferved, only in that fpecies of it arifing from worms, or teething; and in which I have known recoveries after hope had long been given up, and all attempts been lain afide. H HARRIS

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HARRIS recounts fome remarkable recoveries in what he calls the atrophia verminofa, and attributes the cures to the free ufe of good æthiops mineral; but I have feen none fo marvellous as in the atrophia lactantium. In this, I have known children after being reduced by purging, and other complaints, lie for three months in the cradle, fearcely fit to be moved, with continual fever, flufhed cheeks, emaciated countenance and limbs, a large belly, inceffant cough, and almost without taking any nourifhment, recover, as it were in a few days, upon unexpectedly cutting half a dozen teeth.

After having faid this, it will not be expected I fhould offer much on the head of medicines; I fhall therefore only obferve, guarding against costiveness is all that ought to be attempted in this advanced stage of the complaint. Some attention, however, should be paid to the diet, which ought chiefly to be of milk, rice,

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tice, femolina, and fuch like, with light puddings; but above all, plenty of fresh air, and as much exercise as the weak state of the child will bear.

MEAZLES, SMALL-POX, (INOCULATION.)

THE fmall-pox and meazles, though complaints to which children are very liable, are by no means peculiar to them; nor are young infants even very fufceptible of contagion, unlefs directly expofed to its influence. Whenever they take place, however, 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 they cannot bear the powerful antiphlogiftic regimen and evacuations, often proper for the other*.

* Ex toto, non fic pueri, ut viri, curari debente CELSUS, Lib. iii. cap. 7. p. 134.

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On these accounts, it will be unneceffary to fay much upon these complaints. I shall therefore only observe that, not only ought children's bellies to be kept open through the meazles, but unless they are very young, they will bear and even require one or more bleedings, when the inflammatory fymptoms run very high, either before or after the turn.—I shall however take this occasion to drop a word or two on the subject of inoculation, because parents are very apt to fall into great missances most proper for this operation.

It is too common an opinion that a very young infant, fucking at the breaft, is the fitteft fubject 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

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from all violent paffions of the mind. But all thefe advantages may be counterbalanced by the delicacy of their frame, their disposition to spasm, and their inability to ftruggle with a fevere attack of the difease, if it should chance to fall to their fhare. And fuch, indeed, are the facts; infants ufually have the fmall-pox very lightly, whether taken naturally, or from inoculation; though in both, they have fometimes expired in a fit at the time of the eruption, and fcarcely ever get through the difeafe, if they are very full, or it proves of the confluent, or malignant kind. And this furnishes a peculiar objection to inoculating infants at the breaft, which arifes from their neceffarily lying fo much on the arm of the mother, or the wet-nurse, 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 H_3 the

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the inftance of a child whofe mother could fuckle only with the left 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.

From this view of the matter, it is pretty evident, I think, that this operation ought, ufually, to be poftponed 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 small-pox naturally, unless much exposed to the contagion, and that fifty children die under the age of two years, of other complaints,

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to one that dies of the natural finall-pox. Should it however be in the fame houfe, or much in the neighbourhood, and the parents find it difficult to remove the child out of the way, it will run a lefs rifque in being immediately inoculated, as that operation is now fo well underflood, and fuccefsfully conducted, than by taking the chance of efcaping the infection, or of recovering from the difeafe, if it fhould happen to take place.

RICKETS.

THIS complaint was fo named about the year 1628, § and is faid never to have made its appearance in England, till upon the increase of manufactures, people left the villages and husbandry, to fettle in large manufacturing towns; where they wanted that exercise, and

§ See PRIMEROSE.

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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 vifcid to be properly digefted. But above all perhaps, from bad nurfing, and the child's being left wet, dirty, and without proper exercife, or being carried fufficiently into the frefh air. Or laftly, from the habit of body being reduced by the long continuance of almoft any of the forementioned complaints.

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 ancles enlarge firft, afterwards the back, and breaft-bones; and indeed all the bones fwell

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fwell and become foft, efpecially the more fpongy ones. The pulfe is quick, and feeble, and the appetite, and digeftion ufually bad. Dentition is commonly late, though not frequently difficult, but the teeth often rot early, and fall out. Great acuteness of mind has been obferved, in this, and fome other chronical complaints. This diforder 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 : if the child be too young to eat flefh meats, its diet ought to be chiefly of rice, millet, pearlbarley, falop, and femolina, with a little wine,

wine, and fpices, if it is not inclined to be feverish. It must also have good nurfing, and especially exercise and air, without being kept too hot or too cold. Medicine frequently does but very little fervice. However if the child be of a grofs habit, a quarter, or half a grain, of ipecacuanha powder, taken once or twice a day; gentle pukes, and purges, efpecially of pulvis bafilicus; and fom. times isfues often prove of use. 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 purgings. Frictions afterwards with flannel and aromatic powders, especially on the back and belly, will further tend to ftrengthen the habit. Befides these, may be given the cold infufion of bark, or fmall dofes of the martial flowers; but a good diet, air, and exercife, are of the most consequence, and if duly perfevered in, will

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will often effect wonders. Sæpe pertinacia Juvantis, malum corporis vincit. CELSUS.

HOOPING-COUGH.

THE hooping-cough is a difeafe not well underftood by the old writers. ASTRUC feems to have been one of the firft that difcarded the ufe of oleaginous and pectoral medicines, (which indeed fome practitioners have fince been weak enough to revive) though he advifed bleeding too indifcriminately.*

This diforder furnishes another proof of the observation made on the impropriety of submitting the complaints of children to improper hands—the care of old women, and frequent change of air, being all that this diforder is thought to require: but perhaps the

See his Diseases of Infants.

maxim

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maxim was never worfe applied. There is indeed a milder fort of hooping-cough, as there is of every difeafe, that calls for very little medicinal 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.

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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. Thefe are the more common fymptoms, but when the difeafe is violent, and has continued for fome time, they become greatly aggravated, and the child will feem almost strangled in each fit, the face and neck becoming perfectly livid, till by a violent effort, attended with a hoop, it recovers its breath; the blood will likewife fometimes rufh from the nofe, mouth, and throat. When taken who mon in time, and properly treated, it is how- fatal to s ever rarely fatal, and fcarcely ever but to young infants.

Dr. ARMSTRONG recommends antimonial wine as the proper, and only remedy for this, as well as for almost all other complaints

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complaints of children, which, however apposite the remedy may be in a general way, is faying no more than that emetics and gentle laxatives are uteful, which all modern practitioners are agreed in. But the fact is, that many other means are equally uteful, and not unfrequently indifpenfably neceffary, unlefs we fhould fuffer the patient to be ftrangled in a fit of coughing, or fall into a decline, from the injury which the lungs muft endure by a frequent repetition of fuch violence.

This must be exceedingly apparent from the above history of the difease, the various symptoms of which, certainly demand a confiderable diversity in the treatment. If the breathing therefore be Vericular difficult, a blifter is indicated, which if the child be not very young, may be kept open for two or three weeks. If the face should be very livid, and swollen, during the fits of coughing, if any vessel gives way, or the patient be plethoric, and

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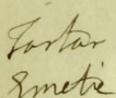
and more than two or three years old, V. or fhould be hot between the paroxyfms, a little blood ought to be taken away, (which is fometimes inexpreffibly useful) Hay Salu and a faline draught be administered, every fix or eight hours, till the fever difappears. Otherwife, if none of these fymptoms attend, bleeding does not feem, in general, to be indicated, but may rather have a tendency to protract the difeafe, by increasing the spasmodic dispofition, and by weakening the patient.

If there be an inclination to vomit, it ought to be encouraged, unless the phlegm be brought up with great eafe in almost every fit of coughing, in which cafe, nature feems able to accomplish the bufiness herself, and it will then often-darative times be fufficient to keep the body open by the mildeft laxative medicines. But it very rarely happens, unlefs in children at the breaft, that fome kind of emetic is not neceffary in the first stage of the complaint.

Inetics

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complaint. The difeafe indeed very frequently requires no other medicine; for this usually keeps the body open at the fame time, which it ought always to be, without weakening the patient. For this purpose, perhaps, the antimonial wine may be as proper as any when it answers Jortar the end, but it is less certain than the tar-Ametic tar emetic, and is not always, I think, of the fame ftrength. The latter is also rather more tasteless, and will therefore have an advantage over every other medicine, when we are prefcribing for children. Two grains of this in two ounces 44 Mar of water, with the addition of a little fu-smetre gar is a medicine to which children will 9. 4 metre make any objection. From one to As fortun two tea-spoonsful of this given to a child ZM of a year old, (varying the dose accord-Juce all ing to the age) will in general act fuffi-Fifth empty flomach, every day, or every other morning, according to the ftrength of the Must contract of the achild, i on alter mane



child, and violence of the difeafe. If the cough fhould happen to be more violent at any particular time, the emetic may be given a little before the paroxyim is expected. Or perhaps a still better method, at leaft in fome cafes, and particularly in very young children, is to give the tartar emetic in fmaller dofes, together with a few grains of magnefia, or prepared oyfter-fhell powder, according to the flate of the bowels, three or four times a day, fo as to keep the ftomach in fuch an irritable state, as shall fecure 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 dose 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 tartar emetic has any

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any advantage of the antimonial wine, it has much more over every other emetic I have made use of, the ipecacuanha, and oxymel of squills, being exceedingly unpleasant, and the latter likewise 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 skill of the experienced phyfician. The cough, for inftance, will fometimes increase not only for days, but for weeks together, and the ftrangulation Leclum be exceedingly alarming. In this cafe, apo fotoficetida, frequently 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 glyfter, diffolved in two or three spoonsful

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of penny-royal, or common water. Thefe medicines however will be improper in the very advanced stage of the difease, when attended with hectic heat, hæmorrhage, or other pthyfical 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 difeafe, when the patient has been exhausted by its long continuance. Upon the fame plan with the affa foetida, camphor and caftor are frequently beneficial, and have the advantage of being lefs naufeous, but I think are also proportionably lefs powerful. I take no notice of cantharides, though ftrongly recommended by fome writers, becaufe I have had no experience of it myfelf, and indeed have Hands 1 never found any neceffity for trying it.

It will fometimes be of no fmall fer- feet vice, to rub the hands, and the foles of theme to

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the feet, with the aromatic volatile fpirit, 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 as the fmell 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 OlJurc: three or four years old will often take a few drops of it very well, mixed in a recommended poon 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 fhe took it, the complaint was no longer alarming, or tedious of cure. But frequently, no antispasmodic is equal

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[133] to opium, in this, as well as in other dif- Thinmy eases. With this view, two or three drops of laudanum, and to younger children a small tea-spoonful of fyrup of poppies, or to grown people from five to ten grains of the pilulae ftyrace, taken at bedtime, will not only quiet the cough, and remove the ftrangulation during its operation, and procure the patient fome reft, by which the ftrength will be recruited, but in many cafes, feems to have a kindly operation on the difeafe itself. It is Cicuta is in this way, I doubt not, that the cicuta is in this way, I doubt not, that the cicuta only unful once seemed to gain some reputation, but only unful I believe it is no otherwise a remedy for as id acts it than as an anodyne. From a mistake as an anod however in this refpect, the ftrong manner in which this medicine was 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 I3 evidently

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evidently indicated, and the no finall detriment of the patients.

If obftructions in the lungs be fufpected, blifters fhould be applied, and gentle deobftruent medicines made ufe of; 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, generally remove it in a very flort time. If these cautions be neglected, the cough will often prove extremely tedious. The only thing that remains to be fpoken of, is proper diet, which for children even of five or fix years of age, ought to how be little more than milk and broths.

These are easily digested, and will afford them much more good nourishment than any

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any kind of meats, and will fit much lighter on the flomach than puddings, or paftry, the latter of which is exceedingly injurious. The objection made by old nurfes against milk, that it breeds phlegm, is utterly founded in a miftake, which cannot be too frequently controverted. It has, indeed, been fometimes mentioned by a certain class of medical people, but the objection is fo truly unphilosophical, and unlike the objections of thinking men, that it fcarcely deferves a reply. Should the milk, however, be found to curdle remarkably foon on the stomach, a little common falt, or testaceous powder, may be added to it occafionally; or where it can be afforded, affes milk may be fubftituted for cow's. These light nourishments foon pass out of the flomach, 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 I 4 more

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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 thirsty, 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 gentle exercife, and a little country air, the best restoratives after every kind of difeafe.

THE CROUP.

THE croup, or acute afthma, is a complaint fomewhat fimilar to the former, to which children only are liable, called therefore afthma infantum fpafmodicum,

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modicum, alfo fuffocatio ftridula. It rarely attacks those who have arrived to the age of ten or twelve years, and chiefly feizes infants newly weaned; at which period it is the most fevere. Dr. MILLAR, to whom I am chiefly indebted for what I have to fay upon this fubject, observes that it appears most frequently in the fpring and autumn, in moist or changeable weather, and when the mercury falls in the barometer.

This difeafe may perhaps arife from the lax fibre of children, the abundance of moift humors natural to them, and the vaft fecretion from the bronchial veffels; from the changes taking place in the circulation through the heart and lungs after birth, and the change of food from milk, which is eafily affimulated, to one requiring more digeftion, by which a great quantity of air is generated in the firft paffages.

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

The nature of this complaint appears evidently to be fpafmodic, its fymptoms very much refemble those of the nervous afthma; but it differs materially

* A diet of milk only, even in adults, when long perfifted in, though otherwife proper, will create flatulencies. BARRY on Digeftion.

from

from the common fpafmodic afthma of adults, in the peculiar croaking noife made in refpiration, and in the violence of the paroxyfms; which however leave no apparent indifpofition, fave a certain dullnefs, and a fenfe 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 pulfe, laborious breathing, a fharp, and fhrill voice, and a flufhed countenance which grows livid during the paroxyfms.

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. As I once faw in a little boy of my own, who was nearly cured in two days.

The fovereign remedy feems to be fativ affa fætida, which ought to be ad-fætiv ministered by Montt k

ministered both by the mouth and in glyfters, according to the exigency of the complaint, which in the first instance, and before any inflammatory affection has taken place, may be administered very freely. At the close of the complaint, and to prevent a relapfe, the bark proves highly ferviceable, and will also reftore the ftrength of the patient; returning however to the affa fœtida, if there should be any threatning fymptom of the afthmatic 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 fome months.

I have examined the trachea after death in only one patient, in which I found the precise appearances described by Dr. MILLAR; the trachea being lined [141]

lined by a tough vifeid coat, which nearly clofed up the paffage.

SCROFULA, OF KING'S-EVIL.

THIS is primarily a glandular difease, though in its progress it attacks the adipofe membrane, muscles, tendons, and even the bones themfelves, especially the joints. It feldom makes its appearance before two years of age, nor later than ten or twelve, though there are a few exceptions in this last refpect, 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; also the hooping-cough, teething, rickets; and many other diforders already mentioned. Hence, the nature of this disease is better underftood,

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ftood, as it 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 afterwards, and appear with redoubled violence. It is often attended, or rather preceded, with a peculiar look about the eyes, and a thickness of the upper lip, and sometimes proves a fource of ill-health through life, but is not usually fatal in the first inftance.

Long before the external glands become affected, efpecially in young fubjects, the belly is obferved to be hard and enlarged, and after death, the mefenteric glands, and even the pancreas have been found difeafed.

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Though this be 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 increafed ftrength of the folids, or to other changes in the habit, naturally happening at that period, is not an enquiry proper for this place.

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Though I thought it neceffary to mention this difeafe amongft others, to which the ftate of childhood is liable, I have little to recommend for the cure of it. At its firft appearance, bitter, or mercurial purges, are fometimes of ufe, as are alfo antimonial vomits, and fometimes faponaceous medicines. But when the difeafe is confirmed, lime-water, and decoctions of the woods, together with crude antimony, bark, and fteel, are I believe moft to be depended upon as internal remedies.

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When there are external tumors, I am fatisfied, that the opinion I have already given to the public in a former treatife, is both rational and fafe, and that they ought to be brought to as fpeedy a fuppuration as is poffible, and be treated as I have there recommended. The fcrofulous virus when thrown on the furface, fo far refembles the cancerous, according to the description of the ingenious Mr. HUNTER, that it is inclined to fpread to a confiderable extent; but as tumors of the former clafs will bear rougher treatment than the latter, I am confident that much benefit may arife from the use of catherætics, by stopping the progrefs of the diforder in the neighbouring parts, as well as by adding powers, and thereby difpofing the ulcers to heal.

I have lately had farther reafon to be confirmed in this opinion, from fome obfervations communicated to me by Mr.

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Mr. PARTINGTON, who fince the hints I threw out in that 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 scrofulous ulcers have been healed, and only fome finall tumors remain, I have experienced very good effects from the external use of as ftrong a folution 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, tho' enlarged to the fize of a turkey's egg; and requires only to be very well rubbed into the parts, three times a day. The patient should at the fame time take a dram or two of the Rochelle-falts every morning .--- I fhall only add, on the head of fcrofula, what is very well K known,

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known, that fea-bathing alone fometimes effects a perfect cure.

WORMS.

WORMS are much oftener fulpected to be the caule of children's complaints than politively afcertained; nor are all children equally affected by them where they are found to exift. Some 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 obftruct the bowels, or compress the adjacent parts by their bulk. Secondly, by fucking up the chyle defigned for the nourifhment of the child. Thirdly, by irritation.

They are chiefly of three kinds, the large round worm, the very fmall mawworm, or afcarides, refembling bits of thread;

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thread; and the flat, or jointed, called the tape-worm, which is often many yards long. This is the moft hurtful of all, and moft 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 not common to children, and occafions a variety of fymptoms refembling other complaints, for which many different medicines may be required, the bare mention of it here may fuffice.

Various are the fymptoms of worms, fome of which are very equivocal; I fhall name only the more conftant, and lefs uncertain ones. Such as fetid breath, efpecially in the morning; bad gums; itching of the nofe and anus; a very irregular appetite, always in extremes, whether of hunger or of loathing; a large belly; pains at the ftomach; fometimes vomiting, oftener coftivenefs or purging, K 2 with

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with flimy ftools; irregular colics; thirft; dulnefs; peculiar unhealthy and bloated countenance, with a dark, hollow circle round the eyes; startings in the sleep, and grinding of the teeth. To these fymptoms 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 fymptom where the complaint is of long flanding, and has injured the health,) fometimes even convultions, and partial palfies of the lower extremities. Children, whofe digeftion is weak, are most liable to be troubled with these vermin, which are fometimes very eafily removed, and at other times very difficult of cure, and fubject to return.

The caufe of this troublefome complaint is not perhaps certainly known. Since the doctrine of equivocal generation has been juftly exploded, it has been generally imagined, that worms are engendered gendered 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 flefh meats. But perhaps this is not altogether fo certain, as it may appear at firft fight, unlefs we are to imagine that thefe fuppofed eggs produce very different infects, from being taken into the ftomach and bowels, than they would otherwife do; fince we do not meet with infects of this kind, efpecially the tapeworm, any where elfe.

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 inteftines. To this end, a variety of medicines, pretty much of the fame kind, has been devifed, and has ferved the caufe of K 3 empiricifm

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empiricifin in every age. Most of them confist either of the bitter purges, or mercurials, to which are fometimes joined steel, and tin.

But if the difeafe be not of long flanding, a little fena-tea taken every other morning, will often effect a cure; but fhould this prove infufficient, a few grains of the bafilic powder fhould 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. Argenti vivi 3iij Misce, fiat 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 glyfter of fuccotorine aloes, diffolved in warm milk, fhould be thrown

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up over night, and a proper dofe of rhubarb, or fena-tea betaken the next morning : which courfe may be repeated, as the obftinacy of the complaint, or the ftrength of the child fhall direct.

Amongst other means, especially for fuch 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-spoonsful in a day, almost at pleafure; which they will also readily do, for the fake of the treacle. Or wormwood feed, mixed up in like manner, taken in the morning fafting, and from five to ten grains of jalap, and as much æthiops mineral, twice every week, to carry the worms down, as they die. To answer the last purpose, equal parts of bullocks gall, and powdered aloes, may be mixed up with butter, and the parts below the navel be anointed with it, two or three times a week; or fuccotorine K 4 aloes

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aloes and powder of dried rue, made into a plaifter with Venice treacle, and applied round the navel, firft 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. Amongft fuch likewife, the decoction of quickfilver, in the proportion of about two ounces to a pint of water, may be made trial of, and taken as common drink, of which fome people have entertained a very high opinion.

If the complaint, however, has been of long ftanding, and the child not very young, mercurial purges are chiefly to be depended upon; though æthiops mineral taken for a length of time, and occafionally purging with fena, has fometimes fucceeded, where there have been the fevereft convultions. For which likewife,

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wife, or obftinate contractions of the limbs, the warm bath is often effentially neceflary.—To prevent a return of the complaint in older children, or grown people, chalybeate waters may be of ufe.

HYDROCEPHALUS INTERNUS, OF WA-TERY-HEAD WITHIN THE VENTRICLES OF THE BRAIN.

I fhall not fpeak of the watery-head that appears in fome infants at the birth, as fuch children are rarely born alive, and feldomer live many weeks, (though I have known one living at ten years of age) and no means that I know of can be attempted for the cure. I defign here to treat only of that collection of water that is formed in the ventricles of the brain, ufually between the age of two, and ten years.

It is, indeed, a melancholy complaint, and not well underftood; and as it can fcarcely

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fcarcely be afcertained whether any have recovered from it, (the certainty of its existence scarcely being known but by examination after death,) it is not likely that a very determined, and fuccefsful treatment, will shortly be established. It may arife from falls and blows on the head, an original laxity of the brain; fchirrous 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 instances, for I have known fix children die fucceffively of it at the age of two years, five of whom were afterwards opened.

It begins with the appearances of flow fever, the child is fometimes fuddenly feized with pain in the fore part of the head, and retches. It becomes heavy and dull, and the pulfe irregular, and ufually very flow; in the progrefs of the difeafe the patient is offended by the light,

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light, becomes delirious, and fees objects double. As the difeafe advances, the pulfe grows frequent, the pupils of the eyes are dilated, the cheeks flufhed, and the patient lies comatofe, or is convulfed.

For the reafons above-mentioned, it is difficult to fay if medicines are fo often fuccefsful as hath fometimes been imagined, for when a patient recovers, it may be fufpected he has not had the true difeafe. Practitioners feem 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 has been thought very beneficial. The ufe of fternutatories, as powder of afarum, or white hellebore, has likewife been recommended by fome experienced practitioners.

TINEA,

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TINEA, OF SCALD-HEAD.

THE feald-head is a very troublefome complaint, but as it is chiefly communicated by contact, it is rather incident to children of a greater age, than are the immediate fubjects of this little work; I fhall therefore only flightly glance at it, and point out one fuccefsful method of cure, the unpleafantnefs of which has, improperly I think, prevented its being generally adopted.

From fome confiderable experience, I may venture to fay, that being a mere cutaneous complaint, it may be moft fuccefsfully treated by topical applications. This difeafe is feated in the little glands at the roots of the hair, producing little ulcers, which being thoroughly cleanfed, and made to digeft, may be fafely healed up, as I have found in many other cutaneous affections.

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It is not uncommon, I know, to administer a variety of internal remedies, and perhaps they may sometimes be required, though I think I have seldom given any thing more than lime-water, or a decoction of the woods.

If the complaint be taken early, before it has fpread far over the head, and whilst the fcabby patches are fmall and diffinct, it may be frequently cured by the fulphur ointment, with a small addition of white precipitate. 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 fmall portion, once or twice a day, on the parts immediately affected. But if the difeafe should 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,

pear, and the hair grows up from the parts they had occupied.

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This complaint indeed, is fometimes of long standing before medical affistance is afked, 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 fall off. I have, however, never failed to conquer this troublesome disease 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 in a ftrong lather of foap-fuds, after it has been close shaved, and then rubbing in the common tar ointment very forcibly for near an hour at a time, always using 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

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but the hairs will alfo loofen, which muft be pulled out, however unpleafant, and indeed painful the operation may be; as it will, indeed, prove a kindnefs in the end: but muft be repeated till all the hair be taken out, after which new hair will rife free from fcabs, which is a fufficient indication that the diforder is effectually removed.

CANKER.

MANY of the following little complaints, though not ufually noticed by preceding writers, I have thought proper to mention; rather from a defire that nothing on the fubject of children's complaints fhould be omitted, than from their real importance. Some of them indeed have been entirely overlooked, and probably will feldom require much attention, though fometimes it will be of advantage

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advantage to know what has been ferviceable in fimilar cafes.

I begin with the canker in the mouth, a complaint often talked of by nurfes, and ufually as trifling as any. It will fometimes make its appearance in the month, or at 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.

This complaint 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

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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 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. Dracon. Gum. Myrrhæ, Cort. Peruv. pulv. fubtiliff. Cremor. Tartar: ā Zj

Mel. Rofac : q. f. misce, ft. Linctus. R. Aq. Calcis Zvij Tinct. Myrrhæ Mel. Rofac. azss. ft. Mixtura.

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The gums fhould be touched feveral times in the day, efpecially after meals, and at going to bed, with the above linctus, and the mouth be washed occasionally 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 Spir. Salis marini as the parts will endure, occafionally made ftronger, till fome amendment be perceived.

ON CUTTING THE TONGUE.

THIS is too trifling a matter to dwell upon.—It will be fufficient to obferve that the little operation, performed in order to lengthen the tongue, is very frequently called for where there is no abfolute occasion for it, the confinement being

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being feldom fo confiderable as to make it really neceffary to divide the frænum, or little bridle, that adheres to the under part of the tongue. The pain unto the child, however, is fo very little, that when the operation 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 requeft. It feems therefore only neceffary to add, that fome little care and steadiness are required, or the fublingual veins may be divided, and in confequence an infant may lofe its life; which has happened more than once. To avoid this danger, the bridle may be divided by a fmall curved bistoury, (invented by Dr. BROMFIELD) instead of sciffars. The handle and blade, when open, need not exceed two inches in length; and as the point is a little curved, and the back made broad, it is eafy to introduce the point through L 2 the

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the frænum in the most troublesome case, whilst the back of the instrument will sufficiently press down the veins, so as to be entirely out of the way of being injured.

OPHTHALMIA, OF INFLAMMATION OF THE EYES.

THE eyes of new-born infants are very apt to be inflamed during the firft three or four days after birth, efpecially in the winter feafon. If it be owing to taking cold, it is probable it has been either immediately after it was born, before it was given away to the nurfe, or very foon afterwards; and on this account, a flannel cap becomes a very neceffary part of its firft covering.

This kind of inflammation however, is ufually of very little confequence, and generally difappears of itfelf, upon merely keeping the head warm, or by wafhing

washing the eyes with a little rofe-water; to two ounces of which, in fome cafes, two or three drops of extract of lead, and a grain or two of white vitriol, may be added. But there is an inflammation to which infants are liable, that fometimes continues a long while, and is of fuch a nature as to demand a careful diferimination. I do not now speak of that rednefs on the eve, known by the name of fugillation, or blood-fhot, which will often remain a long time, return, and difappear again, without the leaft injury to the child; nor of the wateryeye, which will fometimes continue for many months, and even for years. But that which I here intend, is accompanied with rednefs of the eyelids, and the true appearances of ophthalmia, or inflammation of the white of the eye, attended with the fame thick difcharge as the ophthalmia of adults, and will fometimes get a little better by common L 3 means,

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means, but feldom remains fo for many days together, and generally increases at the end of the month.

From what I have known of this permanent inflammation, I am much inclined to the opinion of the late Dr. HUNTER and others, who after having tried a variety of means, and affifted in confultation with different phyficians, have been induced to think, that most of the very stubborn ophthalmias originated from a venereal taint, and could only be fuccessfully treated by its specific remedy, in one form or other .---- Every practitioner will be very careful how he takes up fuch an opinion in particular instances; however, it is right to observe, that if common means do not produce fome favourable change in eight or ten weeks, I believe nothing but that fpecific species of alteratives will have any lasting effect,

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Though it is not my defign to treat expressly on this difease, it may not be amifs to observe, that whenever a venereal taint actually exists, it is more fasely treated by unction than in any other way; and infants would probably be cured much oftener than they are, if recours was had to it in better time than it commonly is.

Ниссоисн.

THIS 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, and is one of its moft harmlefs fymptoms. But when it depends on an acid ftate of the juices of the ftomach, or occurs in L 4 long

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long bowel complaints, it indicates a recourse to the absorbent powders.

SNEEZING.

THIS has likewife been mentioned by fome writers as a complaint of young children, for which RHAZES prefcribes refrigerants and anodynes, but it is certainly not a common one, and indeed I have never met with it. It has already been spoken of as a well known symptom of the meazles, and of many common colds, but in neither, I believe, requires any particular attention. It is mentioned here, only becaufe I would not pass over a complaint that has been attended to by any writer of reputation, or leave fuch readers at a lofs, who be- . ing unacquainted with the diffinction between mere fymptoms and difeafes, might at any time be needlefsly alarmed by it. It may however, in conjunction with

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with other causes, give rise to the following complaint in older children.

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BLEEDING OF THE NOSE.

I meet with this complaint alfo amongft old writers, and therefore beftow a few words upon it, though it feldom requires much attention at the age to which this treatife is chiefly confined.

If the child be feverifh, or otherwife unwell, the hæmorrhage 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, the veffels of this part being weaker than thofe which are covered by the true fkin, and often afford a falutary outlet, in cafe of plethora, or fulnefs of blood, and therefore ufually contract when the intention

tention of nature is answered; after which, a dofe or two of cooling phyfic should be given. But it may be sometimes neceffary to draw a little cold water up the nofe, to which fome vinegar may be added; to apply fome thing cold to the upper part of the back, or even to immerfe the hands in cold water; and if these little remedies fail, to stop up the noftrils with doffils of lint, which must extend to the posterior aperture. Thefe things will almost always fucceed; but if otherwise, some blood should be taken from the arm, if the pulse does not forbid; the body fhould be kept open by manna, and cream of tartar, and the child live for a little time pretty much upon vegetables and milk; at leaft he fhould not dine wholly upon animal food.

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HÆMORRHAGE

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HÆMORRHAGE 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, which has fometimes continued for fome months, and in fome inftances, in fuch quantity as to prove alarming to the friends of the child, left it fhould in the end be injurious to its health. The little vein 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 coffic, however, to the part, but the hæmorrhage has always returned. Nothing farther is neceffary, than to adapt a proper compress, and fecure it by a flicking plaifter and bandage ; astron

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dage; which should be continued for two or three weeks.

HERNIÆ, OF RUPTURES.

RUPTURES may take place in different parts, but they usually appear at the navel or the groin. The former is a very common complaint, which if immediately attended to, is eafily cured, perhaps merely by the use of the cold bath; but if neglected, may prove troublefome as the child grows up; especially to females. It will be fooner cured however, if treated like the former complaint, by adapting a pyramidical compress, made of round pieces of good flicking-plaifter, fpread upon thin leather, with pieces of card placed between them. But if the child be a twelvemonth old, it will then require a pretty tight bandage round the wafte; and fuch a compression, I have frequently observed nurfes Cage ;

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nurfes afraid of, who often loofen the bandage fo much as to render it of very little ufe. On this account, I have for fome time paft recommended Mr. SQUIRE's elaftic bandage, which fitting 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 should be put in the cold bath for some months, after leaving off the bandage or truss.

Ruptures at the groin in very young infants, are better left without a bandage, both from the difficulty of retaining them on the part, as well as from their being continually wetted, and becaufe the ufe of the cold bath will always cure them, if the child be under two years of age ; till about which time they cannot, for the above reafons, be very well applied. After this period however, the ufe of a trufs feems to be abfolutely neceffary, of which thofe [174] those made of steel are incomparably the best.

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HYDROCELE, OF WATERY-RUPTURE.

THIS is a tumor of the fcrotum of a nature fimilar to the hydrocele of adults, and when it falls to the fhare of infants, I believe, always 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 diftinguifhed from a rupture, by the tumor being transparent; without pain; and from not retiring upon preffure, or not being increased by the crying of the infant.

It is a harmlefs complaint, and would probably difappear of itfelf in a few months; but may much fooner be difperfed by fome aftringent lotion. The fpirit of Mindererus has fucceeded with me

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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. But the speediest method is to puncture the lower part of the tumor with the point of a lancet; which, as it may always be done with perfect fafety, and with very 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 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.

PROLAPSUS ANI, OF FALLING DOWN OF THE GUT.

THIS complaint is likewife not an uncommon one, nor ufually difficult of cure, being generally a fymptom of fome other

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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 fome other irritating caufe, and is ufually preceded by tenefmus; to each of which the proper remedy muft be applied.

But if the complaint fhould remain, after the probable irritating caufe shall have been removed, it will then exift merely from a relaxation of the part, arifing from the long habit of defcending, every time the child has gone to flool, and is eafily cured by an aftringent lotion. To this end, a compress of cotton, or foft tow, wrung out of the dregs of red wine, to which also may be added a few drops of the extract of lead, should be often applied, and fecured by bandage, fo as to make a firm compression on the part; which may also be sprinkled with fine powder of myrrh, frankincenfe, and dragon's blocd. It may fometimes be found

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found expedient to have the part fupported when the child goes to ftool, 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 is confiderable.

DISCHARGES from the VAGINA.

THESE are either fanguineous, mucous, or purulent.—As I fpeak only of appearances before the age of puberty, I have only to remark on the first, 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 testaceous powder, or magnesia, according to the state of the bowels, will be fufficiently as the state of the bowels, will be fufficiently as the

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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 fometimes be in an exceffive quantity, fo as to run through all their clothes. 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 next, which may be called purulent gonorrhœa.

This is no uncommon complaint in children of three or four years old, and is then in general eafily removed by a little cooling phyfic, and keeping the parts perfectly clean. I have fometimes made use of a lotion of the vegeto-mineral water, which I believe is preferable to most others, if had recourse to in the commencement of the complaint.

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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 rife to a fufpicion which young practitioners cannot be too guarded against. There are, indeed, instances of little girls, not more than fix years old, being injured, and it is of confequence to make a judicious diferimination; but there are on the other hand, inftances of a very fuspicious appearance, as late as the age of twelve or thirteen, where no injury could be received without the confent of the party, who is generally perfectly innocent, and where therefore the least fuspicion would be very diffreffing to her, and might make a whole family miferable.

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 M 2 in

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in the youngeft fubjects, of a bad habit of body, where mercury, as a deobftruent, has proved ufeful, though I could not have the leaft fufpicion of a venereal taint. In fuch cafes, I have found WARD's white drop a more convenient medicine than any other of that clafs, which may be given from half a drop, to two, or three, once or twice a day, for two or three weeks. But if this fail, I have only to add, that I have been always able to fucceed by giving a decoction of the bark with balfam. copaibæ, which is alfo an admirable medicine in the fluor albus of adults.

LUXATIONS and FRACTURES.

INFANTS 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 feldom any luxation, I believe, but of the

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the humerus, which is very eafily 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 ftrained beyond a certain degree, are eafily bent, or even broken. The former is very readily reftored, but I fhall drop a few words on the latter, which may not be entirely ufelefs.

Fractures in the birth are ufually of the clavicle, or the arm, and the treatment of these, will include all that is neceffary to be observed of such as may happen in other parts.

The former however requires very little attention, as it will be neceffary only to draw the fhoulders back, confining them in that pofture, by two or three pins in their clothes, and to apply a piece of adhefive, or ftrengthening plaifter, M 3 fpread

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fpread on leather, upon the rifing end of the bone, and a larger piece over the first. to

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A fracture of the os humeri demands a little more attention, but will always end perfectly well. The difficulty confifts in keeping the fractured ends of the bones appofed to each other, without rolling up the arm fo tight 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 neceffity 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 half long, may be made of fine linen cloth, five or fix times folded together, to

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to the thickness of common pasteboard; and being foaked in a mixture of flour and white of egg, fhould be placed in the usual manner, along the fractured ends of the bone. Being applied wet, they will accommodate themfelves exactly to the figure of the limb, and when become dry, will be fufficiently ftrong to fupport the bones. They fhould be applied immediately on the fkin, without the intervention of a roller, by which means, when the parts fwell, which they fhould 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 occafion 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, as the furgeon may M4 heft

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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 gown should not be changed, but only be preferved clean, by fuch coverings as may eafily be removed. The fpeedy union of the bones will depend upon a frict attention to keeping the limb as still 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 child will move that arm nearly as well as the other.

SCALDS and BURNS.

BURNS are mentioned by fome old writers, and though a misfortune by no means confined to little infants, they too often

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often fall to their lot, through the careleffnefs of their attendants; and for want of being properly treated at the inflant, 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 them ; carefully avoiding the ufe of oil, or other greafy application, 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, extract of lead, half an ounce.

If the injury has been too long received to admit of much relief by these means,

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means, and fores 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 fores become disposed to heal.

CHILBLAINS.

THIS is a complaint fo well known, that it can need no defeription. It is generally owing to the circulation of the blood 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 exercise. If the injury be exceedingly great, as it fometimes is when a person has lain for feveral hours in the son, the circulation cannot always be reflored, and the part actually mortifies. But I speak here only of flighter attacks ; on the first appearance

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ance 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 muftard and brandy, which if done in time will often remove the complaint. For the like purpofe, foaking the parts in warm water in which a hot poker has been two or three times quenched, and afterwards rubbing them with falt, is a good remedy; or embrocating them with camphorated fpirit of wine, to two ounces of which, a tea-fpoonful of extract of lead may be added.

Some children are difpofed to have chilblains every winter; as a prefervative againft which, if it be the hands that are liable to be affected, warm leather gloves fhould be worn, avoiding woollen, which in thefe cafes is unfriendly to the fkin. But if the feet are ufually the affected parts, the heels fhould be covered every winter by a piece of wafhing-leather, fecured

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cured round the infteps, and worn day and night.

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 bad not only all the winter, but when large, are fometimes not well till the fummer is very far advanced.

After having attended great numbers in this complaint, I am fatisfied that this kind of fore requires applications fomewhat more invigorating, being a fpecies of gangrene; and though it will not always endure very warm digeftives 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 fmall, remain long in a very obftinate and tedious

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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; which in a very few days will produce kindly granulations in thefe, and other cold fores, though of long flanding.

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 vegeto-mineral water are more active, and therefore preferable to mere bread and milk. If these are applied over the above dreffing of cerate

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Lerate and digeflive, 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 fpirit. 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 been informed by Mr. PARTINGTON of the good effects of electricity in chilblains, and though I have had no opportunity of making trial of it, it agrees fo exactly with my own ideas of the nature of fuch diforders, that I cannot doubt it will be of use in the more obftinate kinds, especially in very old people, to whom they not unfrequently happen.

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THERE are feveral other difeafes attributed to young children, recorded by *Rhazes, Paulus, Oetius, Fabricius ab Aquapendente, Celfus, Primerofe*, and other lefs ancient writers; of which I know nothing but from their own account of them, or that they are needlefs diftinctions of difeafes already mentioned, which the ancients were very fond of making, efpecially in complaints of the fkin, but can never anfwer any practical end. Amongft which are, Lentes, Hifpiditas, Achores, Favus, Pforophthalmia, Ranulæ or Batrachos, Seriafis, Parifthmia, Parulis, Inflatio, Macies.

The five first are affections of the skin. Achores and Favus are a fort of Crustalactea, so called, when of a dark colour, or ulcerated, and extending to the head; but by some, the term Achores is applied only to adults. Pforopththalmia is confined to the eye-brows, and is so named by ŒTIUS, and others after him. Ranula

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Ranula is an inflammatory tumor of the parts under the tongue, especially of the veins, which fometimes ulcerates, but often prefents a species of fost, and lax ædema. CELSUS fays the tumour is fometimes included in a cyft, which must be taken out; the operation for which is fully described by AQUAPENDENTE. Serias is from oipos, quia caput quafi excavatum cernitur.-PAULUS (Lib. i.) describes 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, but is certainly not common in this country; it is hinted by HIPPO-CRATES in his book de Dentitione. Parulis, a complaint described by PAULUS as a painful tumor about the gums; RHAZES calls it a blifter in the mouth. Inflatio is a diffention of the fkin from wind or water after a child has been reduced

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duced by long illnefs. Macies, or atrophia lactantium, is applied to a decay, faid to arife either from worms, (and is then called atrophia verminofa*) or to the unfuitablenefs of the breaftmilk, which though 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.

I have now gone through all that have been ufually ranked amongft 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 poffefs the advantage of compleatnefs over moft works of the kind. That nothing may be over-

> * See HARRIS. N

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looked, there remains only to fay a few words upon external blemifues.

On the HARE-LIP, and other EXTERNAL BLEMISHES, OF EXCRESCENCES, fuppofed 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 subject without taking notice of the hare-lip, and other very common blemiss, if it were only for the sake of adding my testimony to that of a sensible modern writer, § who has in an able manner, though not with equal success, combated the unhappy prejudices of mothers in relation to marking their children; which they always imagine to be owing to a violent impression from the

§ Dr. HUCH SMITH.

fight

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fight of fome difagreeable object, or to a difappointment in fomething they may have longed for, during their pregnancy.

The repeated experience of every attentive observer, has uniformly militated against this tormenting fuspicion; 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 bufinefs has known many inftances 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 discovering 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 their more intelligent friends have all along ventured to foretel. On the N2 other

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other hand, where children have come into the world with fome real blemifh, it has never been fuspected by the mother, unlefs now and then in a most timid perfon, who has always bred in fear on account of fome difagreeable object or other fhe has feen, or elfe, the blemish has turned out to be fomething perfectly irrelative to it. And here it ought to be noticed, that where a child has really been marked, and the mother has infifted on her having feen, and been frighted by an object which the blemish has refembled, it has (to the beft of my knowledge, at leaft) appeared always to be an after-thought, by which the supposed occasion 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 occasion, or to tax any with a wilful giving way to fufpicions, into which, I am perfuaded, their 151110

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their feelings alone infidioufly betray them.—I wifh only to obviate the influence of a fentiment that I take to be without all foundation, and to which nothing but length of time, and prefcription, could have given the leaft fhadow of fanction.

That there are blemishes which bear a refemblance to various objects around us, daily experience has proved; though the true occafion of them is not perhaps understood. The like deviations from the ordinary courfe is obferved, not only in other animals, but alfo in the vegetable kingdom, which must arise from the common laws of nature being fomeway 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 N_3 that

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that has been supposed, much lefs at fuch different periods; but there is on the other hand, every thing against fuch an hypothefis. As matter of fact therefore, as before observed, does not at all countenance, but directly contradict the fupposition, there is the ftrongest reafon for married women arguing themfelves out of fuch fears, instead of reasoning 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 answer fo defirable an end; whilft reafon, philosophy, experience, and every thing on which we ought to depend, uniformly fupport me in fuch an attempt.

Amongst the various marks refembling fome of the objects around us, is that called the hare-lip; a blemish too well known to require any description. It is sufficient to observe, that it is of two

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two kinds; the fimple, wherein the upper lip only is divided with fome lofs of fubftance; 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 purpofe, in this place, to treat of the manner in which this deformity is to be remedied; I fhall confine myfelf to fpeaking only of the time in which it ought to be attempted.

A variety of things contribute to make the diftreffed parents folicitous to have this blemifh removed foon after the infant is born, or at fartheft before the month 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 N 4 poftponed [200]

postponed for a reasonable time. Where the blemish is very triffling, 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 least 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 fleep a good deal, if the operation be done twenty-four hours after the child is born, it will be in a condition to fuck by the time it requires much nourishment, 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 be postponed, the better it is likely

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likely to fucceed, and fhould at leaft be deferred till the child shall be four or five months old; the good effects of which I have lately feen in the lying-in hofpital. By this time alfo, 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 acquired 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 increased.

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I have once feen another kind of 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 aukward 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, the parts adhered very firmly, and the child left the hofpital at the ufual time.

A different kind of blemifh confifts in fome fuperfluous part; on which I have only to fay, that if it be a fmall joint, as a finger or a toe, it is better removed on the firft days; as the veffels will then bleed but little, and the griftle by which fuch joints are ufually connected, are not yet become bony.

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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 urethra, or the vagina in females, the latter of which requiring an operation to be performed about the age of puberty, I fhall do no more than barely mention here, efpecially as it requires only a fimple, or crucial incifion.

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 feveral days after the infant is born.

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I remember only one cale 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

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puked up a great quantity of meconium, and not only the belly, but alfo the face was exceeding tumid, and the eyes had not been opened for fome time.

The manner of doing this operation muft, in different cafes, depend fo much on the different of the operator, that I shall do no more than deferibe that which I made use of in the instance alluded to.

The operation was not determined upon till the third day. A longitudinal incifion was made, of near 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 inteftine, for more than an inch. No meconium following this puncture, I examined carefully with my finger, and feeling fomething like the fluctuation meconium would make, I introduced a trocar, and withdrawing my finger, I carried up the inftrument in fuch a direction tion 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 trocar. The inftrument having now paffed forwards, without that refistance it had hitherto met with, gave me the fensation of having entered a cavity, when withdrawing the trocar, 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, looked cheerfully about it, and foon afterwards fell into a pleafant fleep in the bath.

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A piece of bougie was occafionally introduced, and fometimes left in the part, for a few hours, for the first fortnight, and at the usual time the child was taken from the hospital in pretty good health, though

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though it had been much reduced by a bad thrush, which unfortunately made its appearance soon after the operation; but it always voided its stools perfectly well.

The imperforate penis is not quite fo common a cafe, and it is evident, if the urethra be wanting no operation at all can be performed; but it is more commonly found open a certain way, and often as far as the bafis of the glans, and fometimes near to its extremity; in which last instance, it is necessary only to make a fmall aperture with a lancet, or a fine trocar, and to keep the part open by the occafional introduction of a bougie. The more common complaint of this part however, is that of the urethra terminating by a fmall aperture at a little diftance below the glans, and fometimes on one fide of it. In these cases, the precise circumftances must determine the propriety of any operation, which if not carefully managed, may render the cafe worfe than it

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it was. I recollect two indeed, in which I was able to do confiderable fervice, one of which was in prefence of Sir CÆsAR 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.

I have never met with the vagina totally imperforate, but have known the aperture fo very fmall as to require a little operation, which was mighty eafily done with the point of a lancet; there being always a raphè, or line, directing the extent nature had originally defigned, which being cut through, requiresonly to be kept apart for a few days, by a bit of fine lint.

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,

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tragus, covering that part which ought to lead to the internal ear; but in these cases, I have always found the concha, and meatus auditorius, totally obliterated.

Another, and a very common blemifh, is that called fquinting, 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 flicking-plaister spread on some bright coloured filk, in fuch a position, either on the temple, or the nofe, agreeable to the fide on which the eye is difforted, as may draw it the contrary way. In order to keep up this attraction, the color 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

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of change, as well as to anfwer any other end, that a due obfervation on its effects may point out. Befides this, the child ought always to be placed with that fide towards the light, in which the diffortion is; 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 take the fame fide, that the child may have every inducement its age and circumflances will allow, to draw the eye the right way, and by early habit, counteract a mufcular 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 fome people wear when they ride on horfeback. They muft 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 fcarcely O neceffary

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neceffary to add, that the glaffes must be worn constantly, till the bad habit is overcome.

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Infants are liable to many other blemifhes, but as I mean to treat only of fuch as will admit of fome remedy, I fhall mention only one more; and with it fhall clofe what I have to fay on their complaints.

This is a tumor on fome of the vertebræ, ufually of the neck, or the first of the back; it is of a fublivid hue, unequal, internally fpongy, and very vafcular: it is fometimes connected to the vertebræ themselves, and is then of the same fpecies with the fpina bifida, and confequently incurable. At others, it only refembles it, and with proper treatment fubfides, and the infant will do well. I faw one of this kind fome years ago, in confultation with Sir CÆSAR HAWKINS, who advised to preferve the skin unbroken, as long as it fhould be poffible, which

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which he feared was all that could be done for it; and to this end, recommended the free use of the vegeto-mineral water. It was then about the fize of a crown-piece, and not raifed very much above the level of the furrounding parts. The fkin, however, not long afterwards gave way, and the child became ill; in confequence of which the late Dr. Hun-TER was defired to give his opinion, who advised the tumor to be taken out, as the only chance for preferving the child's life : but as Sir CÆSAR HAWKINS had not been of this opinion, the father would not confent to it. 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 sprinkled it with the following powder, R. Bol. Armen. pulv. Terræ Japon. ā zij. Alumin. rup. 3j. Misce. Over this, compresses wetted as above were applied frequently through 02 the

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the day. Thefe would fometimes adhere for feveral days by means of the blood and powder forming a fort of pafte, till a frefh 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 compreffion with a piece of thin lead, the veffels gradually fhrunk, and the difcharge being dried up, the part was happily fkinned over, and the child recovered its health.



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DIRECTIONS

FOR THE

Proper MANAGEMENT of INFANTS from the Birth:

With a particular View to fuch as are brought up by Hand.

Having already fo fully difcuffed all the principal difeafes of infancy and childhood, there will be lefs occafion to fay much on the management of children. There are fome things, however, that could not with propriety be introduced under the head of their complaints, which ought, by no means, to be paffed over unnoticed; and particularly, in regard to the treatment of infants brought up by kand.

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But it would carry me altogether beyond the limits I have affigned to this little treatife, were I to enter fo far into the inveftigation of the fubject, as to fet forth all the impropriety of that mode of training up infants from the birth. And I am glad to find by fome very recent examples amongst the great, that there is fomewhat lefs occasion 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 substitute for the breast has been universally found; and therefore how proper it is, that every child fhould have it, and even be fuckled by its own mother, where her health can fafely admit of it .- Reason, inftinct, experience, all confpire to fupport this opinion; and whoever will determine to attend only to matter of fact, may foon be convinced of it. Puerile, indeed, are all the arguments against it; and herein

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herein Dr. ARMSTRONG feems to me 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 inftances .- It were eafy, perhaps, to produce as found arguments against eating more than once a day, becaufe fo many people become difeafed from excefs. But not only is the breaft-milk the only natural, and most proper food for infants, but fuckling alfo conduces to the eafy recovery of the mother; though the fhould not be able wholly to fupport her child by the breaft, or to continue to fuckle fo long as the infant may require.

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 even to attempt it; but I am, neverthelefs, O 4 equally

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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.

But notwithftanding this encouragement, continually brought to the ears, and urged upon others, that tyrant, Fashion, prevails over the good sense and natural feelings of many, whose maternal affection can be, in no other instance, suspected. Yet against fome, alas! another charge may be brought, who not only refuse to give nouriss who not only refuse to give nouriss to their tender and helpless offspring, but whils they, unnecessarily, commit this charge to a stranger, give up every other charge with it; and rarely ever visit

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vifit the nurfery, or fuperintend those they have fet over it. It is from hence, that fo many errors in point of diet, air, cloathing, &c. &c. have infenfibly crept into the houses even of some, whose rank in the world would otherwise have fecured to their children every advantage that a due attention to nature, or to art could point out.

I am forry to have fo heavy a charge to produce againft any part of the fex I fo much honour, and againft any of my fair, and fenfible countrywomen, in particular. Neverthelefs, I cannot help fufpecting, that wherever fuch neglect does exift, whether in regard to fuckling, or fuperintending the management of their children, and does not arife from want of health, or from fome equally unfurmountable objection, it can be charged only on the depravity of the age, which infenfibly perverts the tafte, and corrupts the judgment of many

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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 conspicuous instance of it. TACITUS, the Roman historian, 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 domeffic .- It is no small 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 without

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without exception in domeflic 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 fubjects, whilft I attempt to point out as far as my obfervation has extended, the most prudent means of executing this most important branch of female duty.

To this end, let us imagine an infant juft born, to which our firft notice will be called in regard to washing and dreffing it, together with other little 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; though it is not every little thing that may fafely be neglected, or ill-done. Some infants are covered much more than others with a thick, vifcid matter, which cleaves so fast to the standard stan

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skin, that it is not eafily washed off; but it is of importance, however, in regard to perspiration, which can never be duly performed, where the fkin is left foul. On this account, the nurfe fhould be very attentive to this first concern of her infant charge, and whatever wash she may make use of, she should be careful the child be well rubbed, especially 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 perspiration; or that fhe be, at least, very careful the greafe be afterwards well wiped off.

After a while, and fometimes the next day, moft nurfes wafh the child with cold water; a practice highly extolled by Dr. ARMSTRONG, as well as many other practitioners. But though no man can be a greater advocate for every thing that is bracing than I am, I cannot approve of this

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this fubflitute for cold-bathing, as it is called; at leaft, as an indifcriminate practice. The cold-bath acts on a quite different principle, and I could wifh almost every child, especially those born in London, were bathed at three or four months old, if the seafon should permit, which I am certain would prevent, as well as remove many of their complaints.* But to see a little infant of a few

* From the furprizing good effects that fometimes follow the use of the cold-bath, I do not wonder that priest, in times of ignorance, have been known to account them holy, and dedicate them to some faint; to whose influence certain cures were attributed.

Its falutary operations, however, are eafily accounted for, from its promoting infentible perfpiration, and rendering that fecretion lefs readily affected by the imprefion of the external air.

It may be known to agree with children, when they come out of it warm, lively, and their ftrength increases on the use of it. On the other hand,

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few days old, the offspring perhaps of a delicate mother who has not even ftrength to

hand, if they come out cold, difpirited, and feem rather to lofe ftrength, it is as often prejudicial.

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 diferimination in the habits of body of different children .- For the tender and delicate, not only should a good quantity of falt be put into the bath, but the water fhould alfo at first be a little warmed, and children be brought only by degrees to endure it quite cold ; or if it should even never be perfectly fo, the advantages of bathing will neverthelefs be confiderable. It is not, I apprehend, merely from the coldness of the water that the benefit of bathing arifes; nor will children be disposed to take cold from the water being a little warmed for the first three or four days, as it has been generally imagined. The chief advantages, perhaps, arife from the fubject being fuddenly immerfed into a very different medium, in which the contact of the external air is taken off during the immerfion, and is as fuddenly reftored on his being taken out. By this means, the blood is alternately pushed forward

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to fuckle it, washed up to the loins and breast in cold water, exposed for several minutes, perhaps in the midst of winter,

ward into the extreme veffels, and as fuddenly repelled to the heart, and fuffers an advantageous attrition against the fides of the veffels. The small passages are rendered pervious, and the systel of the heart is increased, as well as the muscular fibres proportionally strengthened. The salt added to the water pretty certainly prevents taking cold, whils it adds to the stimulus on the skin, and opens the pores more effectually.

For the fake of fome readers it is neceffary to obferve, that a child is to be put only 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 most expeditious manner; and as foon as it can be dreffed, should partake of fuch exercise as may be best fuited to its age : but by no means be put into bed. 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.

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(when children are more inclined to difeafe than those born in fummer), itself in one continued fcream, and the fond mother covering her ears under the bedclothes that fhe may not be diffreffed by its cries; has ftruck me as a piece of unneceffary feverity, and favors as little of kindness as plunging an infant a second, or third time, into a tub of water, with its mouth open, and gafping for breath, in the old fashioned mode of cold bathing : both of which, often induce cramps and pains in the bowels, and weaknefs of the lower extremities, but never an increafe of ftrength. It furely cannot be amifs, in winter time at least, to take the cold off the water for the few first days, and whenever cold water is made use of, it will be quite fufficient to wash the child as far as a regard to cleanlinefs may require, which will always be the parts expofed to the worft kinds of galling and excoriation; on which account cold water

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ter is certainly useful. With this view, befides the groin, fcrotum, and anus; the arm-pits, folds of the neck, and parts behind the ears, being alfo difpofed to excoriations, may be occafionally washed in like manner, and if the difcharge be not checked by it, the parts fhould be fprinkled with a little hair-powder, or compound powder of ceruse, 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. In a very acid flate of the flomach, however, during the month, particularly where there is a purging with very green ftools, the parts about the anus will be unufually excoriated, and whilft that flate continues, will not be healed by any drying applications. I have found nothing fo pleafant, and useful, in this cafe, as covering the parts with the thin fkin found upon the veal kidney, which foftens, and cools the inflamed parts, till P the

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the caufe of the complaint, by the ufe of proper abforbents, be removed. But one grand means of keeping children from chafing, is to preferve them very dry and clean; articles of fo much importance, that I fhould have infifted 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 fhould thrive or be

* I shall take this opportunity of dropping a word against an old fashion still too much in use, that contributes not a little to make children weak, that of wearing a pilch ; which though originally designed only for the few first weeks after birth, is often worn for as many months. It can answer no possible end but that of faving trouble to fervants, fince instead of keeping children dry and clean, it does directly the contrary; for if it has received any wet through the usual cloth laid over it, it ought itself to be changed as often as the other, or must certainly be damp and uncleanly; whilst by heating the loins, and lower limbs, it has a manifest tendency to relax, and dispose infants to become rickety.

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healthy, if these last articles are not strictly attended to, which together with those of proper food and exercise, are perhaps the only ones in which the children of poor people are at a great difadvantage, and which become the conftant fource of rickets and diffortions 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 practiced by nurfes, that of forcing out the milk from the little breasts of new-born 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 they do a great kindnefs in milking 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

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for fome minutes, though the child's cries might convince her fhe is putting it to pain. In this cafe, viz. of inflammation, a bit of bread and milk poultice is the propereft application, but if the part be not inflamed, it can want nothing at all; though if it be thought fomething ought to be done, a little oil with a drop or two of brandy may be gently rubbed in, or fmall pieces of fimple diachylonplaifter may be applied, and lie on the parts till they fall off of themfelves.

Having confidered thefe neceffary preparations, I proceed to offer a few remarks on the prevailing errors in their drefs.

Upon the first fight of a new-born infant, every one is struck with the idea of its weakness and helpless; and we often take very improper methods of strengthening it. It is *designed* to be weak and tender in this infant state, as is every other object around us.—Take a survey of nature, from the first opening leaves of

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of the vernal flower, or the tender foliage of the fenfitive plant, to the young lion, or the elephant; they are all, in their feveral orders, equally helplefs, 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 vigor and maturity. So if the tender infant be born of healthy parents, and at its full time, it is ufually fufficiently ftrong; proper food and nurfing are the elements whofe foftering influence it requires :—if it has thefe, it will need nothing 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 undifturbed, to be equally diffributed through the body, and which are therefore furrounded by a foft medium, capable of P_3 yielding

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yielding to the refiftance 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 foft fluid.

I am not ignorant however, that for many years past the very ancient tight mode of dreffing infants has been discontinued, for which we are perhaps greatly indebted to Dr. CADOGAN. It is certain alfo, that for the laft twenty years, the fashion recommended by him has been improving; but there is yet room to go forward; and was every tender parent in this country thoroughly fenfible of its advantages, it would foon become fafhionable to fee children as much at their eafe on a christening-day, as they are at other times lain at night in their beds. And I may be permitted to add here, what every modern writer has adverted to, that were ftrings, almost in every instance, substitutes for pins, physicians would

would feldom be at a lofs to account for the fudden cries, and complaints of infants, which are too often produced by this needlefs part of their drefs. ‡

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Nature knows no other use of cloathing but to defend from the cold,-all that is neceffary therefore for this purpose, is to wrap the child up in a foft loofe covering, and not too great a weight of it; to which ornaments enough might be added without doing mischief. And had this matter been always wholly left to the judgement of parents, this is all that would have been done, but the bufinefs of dreffing an in-

* A gentlewoman lately informed me, that one of her children, after long and inceffant crying, fell into ftrong 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 head, in the large fontanelle, or mould. P4

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fant is become a fecret, which none but adepts must pretend to understand. The child itself, however, discovers to us the propriety of such cloathing, by the happines and delight it expresses every time it is undressed, and rubbed with a fost hand. Whereas, the art of dressing has lain the foundation of many a bad shape, and what is worse, of very bad health, through the greatest part of life.

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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 endeavour 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, which

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which though 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-naturels*, 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 firft of thefe was faid to be air.

The great importance of this has been fet forth when fpeaking of the Difeafes of infants; I fhall here in a more particular way obferve, that the age, conflitution, and circumftances of the child, and the feafon of the year, ought always to be taken into confideration, *that* being highly proper on one ocafion, which would be equally detrimental at another.

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In general it may be faid, that warmth is friendly to very young infants, but they should nevertheless be inured gradually to endure the cold air, which is abfolutely effential to their health. I cannot therefore agree with Dr. ARM-STRONG 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 however is neceffary on this head, and evinces the neceffity 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 occafion of their taking cold, and deters many parents from fending them abroad fo often as they fhould. Another, and a worfe, as well as common fault, of nurses and servants, is, that of standing still with children in their arms in a current

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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, and fuch like; the confequences of which are a long confinement to a warm room, and either a prohibition against going out fo much as they ought, or a fresh cold owing to fome of the like irregularities. And I may here observe, the lightest fymptom of cold (which is also 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 lain in the cradle: or if this fail, a little white vitriol may be diffolved in rofe-water, and applied in like manner.

It will be adviseable, in order to inure infants to the air, that they be short-coated

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ed as early as the feafon of the year will permit; their drefs fhould be loofe and eafy, and they fhould 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 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 confiderable time, I muft remark that circumftances are always to be taken into confideration. *Mutatis mutandis* fhould 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 prefent inftance, many tender children have fuffered

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ed exceedingly the laft winter from the feverity of the feafon, and have been diftreffed with chilblains merely for want of proper covering to their tender limbs. I have feen a child of four years old, the daughter of a perfon of fafhion, (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 ftrong and healthy children are thought to be better without them.

The fecond article under the head of Non-naturals relates to Meat and Drink.

I meet with the like improprieties on this article, as on that of drefs. And it has indeed been matter of wonder, how the cuftom of fluffing new-born infants with bread could become fo univerfal, or the idea first enter the mind of a parent, that such heavy food could be fit for its nourifhment. But before I enter

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enter farther into this matter, I shall just observe, that though an infant be fuckled by its own mother, it can certainly want no other food, till the time nature will bring milk into her breaft, fuppofing the child be lain to it in proper time; which doubtless ought to be as foon as the fhall be fufficiently refreshed ; this method, however unufual with fome, is the most agreeable to nature, and to observations on the irrational species. who in many things are the very beft guides we can follow. By means of putting the child early to the breaft, especially the first time of fuckling, the . nipple will be formed, and the milk be gradually brought on. Hence much pain, and fometimes even an abscess would be prevented, as well as fore nipples, which in a first lying-in, have been wont to occafion no inconfiderable trouble. But should either of these evils take place, they are far lefs diffreffing under

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under proper management than has been ufually imagined*. However, fhould the mother be unable to fuekle, and a wet-nurfe be engaged, there can be no harm in putting the child to the breaft, after it has taken a dofe or two of the opening medicine; or fhould it be brought up by 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 food fhall be found proper for it.

It were well if the fond mother, and all well inclined nurfes had more juft ideas of the manner in which we are nourifhed; and efpecially, that it is not from the great quantity, nor from the

* See the above mentioned treatife; in which the milk-abscess, and fore nipples are fully confidered, and a successful, and easy method of treatment pointed out.

quality

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quality of the food fimply confidered. They may furely be led to conceive, that our nourishment arises from the use the ftomach makes of the food the body receives, which is to pass through such a change, called digeftion, as renders it balfamic, and fit to renew the mass of blood, which is daily wafting and confumed. An improper kind, or too great a quantity taken at a time, or too haftily, before the ftomach has duly difposed of its former contents, prevents this work of digeftion, and by making bad blood, weakens inftead of ftrengthens the habit; and in the end produces worms, convultions, rickets, King's-evil, flow fevers, and confumption of the whole body.

Nature, it fhould be confidered, has provided only milk, for every animal adapted to draw it from the breaft, and that of women is certainly the thinneft of them all; but at the fame time, far more nutritive at

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nutritive than bread. It is true, bread which requires more digeftion will lie longer on the ftomach both of infants and adults, and hence probably becaufe 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 propereft food for adults, employed at hard labour, and many hours from home, it is the fitteft of all for the fedentary life of a tender infant, who cannot get that nourishment from bread or other folid food, of which the ftomachs of adults are capable. It must have been

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for want of attending to this confideration, that Dr. ARMSTRONG has faid fo much in favor of bread and other thick victuals; which, by the bye, he began to make use of for his own children (from its fuccefs in whom he has ventured to recommend it,) only at the age of fix or feven months; a matter very different from fluffing an infant with it almost as foon as it is born. For every thing the ftomach cannot digeft, it has been faid, may be justly confidered as a poifon, which if not puked up, or voided by ftool, 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.

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Milk itfelf is produced from food taken in by the mother, and is the richeft part of it. It is in her ftomach the aliment is diffolved, or digefted, which by a combination of powers in the *chylopoëtic* vifcera,

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vifcera, 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 wholfome chyle, or white blood, the parent, by this wife fubfitution in nature, has previoufly accomplifhed this work for the infant fhe is to nourifh.*

I am free then to lay it down as an axiom, that milk ought to be the chief part of the diet of children for a certain time, whether they have the breaft or not; and

* 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 most 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 best, and most natural fubstitute, should be provided.

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that it will prove fufficiently nourifhing for nineteen out of twenty; 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 was to be made, than by rufhing abfurdly into the contrary extreme. But fuppofing a very ftrong child, at the end of the month, really not fatisfied with milk only, and always craving the moment it has been thus fed, it doubtles 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. Perhaps where this food 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 cruft, in a good deal of water, till it be very foft; by which the bread will part with fome of its acefcent quality: the water should then be strained off, and the bread mixed up with fome milk, which

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which ought to be boiled if the child be very young, or inclined to be purged.

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.

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, publifhed fome years ago in his judicious treatife on the management of children, 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 wifh to refer the in-Q 3 quifitive quifitive reader to the reasons the Dr. 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) fhould be added a finall quantity of a light jelly made from harts-horn shavings, boiled in water to the confiftence that yeal 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 acescency of the milk. The milk of quadrupeds, it is to be observed, is pro-

§ There is fometimes a difficulty in making this jelly, on account of the harts-horn being bad; those who shave it, often mixing with it the shavings of trotters, which may, however, be distinguished by their brittlenes. If the shavings are good, two ounces of them boiled very flowly in a quart of water to a pint, will make the jelly of a proper confistence.

duced

duced from vegetable juices, whilft breast-milk is formed by a mixture of animal and vegetable food. A little Lifbon fugar may 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 finall pot Dr. SMITH has contrived for the purpofe, which must be very carefully cleanfed and fcalded, at least once every day, and the fpout be thoroughly rinfed, left any four curds fhould flick about it. At first the milk ought to be boiled, to render it lefs purging, but when the child is feveral months old, or chances to be coffive, the milk need only be warmed.

The boat, the fpoon, and the horn, are in no wife comparable to the pot, Q4 which

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which is fo contrived, not only as to pleafe the child by its refemblance to the nipple, and the milk coming flowly into its mouth, but also to afford the infant some little degree of labour or fatigue, in order to acquire the quantity it needs; which the horn does not do. This is indubitably the cafe in regard to a child fucking at the breaft, and by this means it is that children, efpecially 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 nurfe in order quiet it, often forces down a fecond or third boat-full, to put a ftop to the cries, which indigeftion from the first or fecond may have occafioned.

The pot is formed in the fhape of an Argyle, or gravy pot, with a long fpout, rifing 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 littile way over the fpout, is foft and pleafant to the child's mouth, and 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 breaft-milk, children often need a fupply of it.

It

It is a common direction in works of this kind, to point out the propereft times for feeding an infant brought up by hand, and to direct how often it may fafely be fed. I shall just observe therefore, that no man can lay down any certain rules on the occasion, and therefore ought not to attempt it, fince none can be fufficiently comprehensive; and I am happy in not being at all at a loss in this instance, wherein writers have differed fo widely. For children do not ufually take 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 nourishment, and may therefore be permitted to take 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

* Optimum vero medicamentum est, opportuné cibus datus. CELSUS de Med. victuals,

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victuals, and are fed by the fpoon, of which it has been faid, they are always in danger of taking too much; an evil that can never be too often pointed out.

I shall only mention one popular objection to the plan I have recommended, or rather, that has been recommended by Dr. SMITH. This objection is taken from the many fine children we meet with, who have been brought up by hand 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 fuch a diet, and that weakly infants,

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infants, who are fcarcely preferved by the most careful attention to their food, would foon be hurried out of the world if that were neglected. And this reminds me of an observation of a very judicious friend in the north of England, which greatly furprized me at the time, as I had never met with any observation from him before, that did not appear exceedingly obvious and convincing. Upon feeing a number of fine children one day in London, he with fome shrewdness observed, that we did not feem to have fo many weakly halfftarved children as he met with in the country, and that he had often before made the like observation in his journies to town. It appeared to me my friend must have been mistaken, and I accordingly mentioned my furprize at fuch a remark coming from him; when he removed my aftonishment by infifting on the fact, with the following obvious folution

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folution of it. There are fcarcely any but fine and ftrong children in London, I apprehend, that live to be two or three year old; the weaker ones, for want of good air, and exercise, 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.

When children brought up by hand become four or five months old, efpecially if ftrong and healthy, they may doubtlefs be allowed a thicker kind of victuals, becaufe their digeftive powers are by this time become ftronger, and are therefore able to extract good nourifhment

ment from it; though this 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, whenever it becomes neceffary, I am perfuaded, 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 oftner than once a day, a little bread and milk may also be allowed them every morning and evening, as their ftrength and circumftances may require. A cruft of bread likewife, as foon

* 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 most natural, as well as nourishing broth that can be made. See the abovementioned letters of Dr. HUGH SMITH. t

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as the child has a couple of teeth, will amufe and nourifh it, whilft it will affift 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, semolina, or rice; falop boiled in milk, and fuch like. But to feed a child with yeal, chicken, or other animal food, before nature hath given it teeth enough to chew it, however fmall it may be minced in the kitchen, is altogether unnatural-, and can prove nourifhing only to fuch children, as from the great ftrength of their natural conflitution, need least of all the affistance of art. It

⁺ Ante dentium eruptionem non conveniunt cibi folidiores. Ideo natura quæ nihil fruftra facit, & non deficit in neceffariis, dentes ipfis denegavit, fed lac conceffit, quod massicatione non eget. PRIMEROSE.

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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 diet 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 support them, at an age when they want more exercise than their nurses 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, cuftards, and fuch like kitchen preparations of milk, but even a little red wine is beneficial to many conflitutions. This will not only promote digeftion, and obviate in a great measure a disposition to worms, but by ftrengthening the habit, will also render children lefs liable to become rickety, at the

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the very period they are very much difpofed to it. But fo many little infants, on the other hand, fall a facrifice 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 most dangerous period of infancy, cannot too cautiously attend to their diet at this time.*

Before I clofe this head of the management of children, perhaps the most important of all, I shall offer some remarks

* From a note in Dr. SMITH's letters it appears, that the average of births within the bills of mortality for ten fucceffive years, was 16,283; out of which were buried under five years of age 10,145, and from amongst these 7,987, were under two years of age. So that almost two thirds of the children born in London and its environs, become lost to fociety, and more than three fourths of these die under two years of age.—This proves how hazardous a period that of infancy is; and I am forry there is so much reason to be perfuaded, that the want of air, exercise, and a proper diet, adds unnecessarily to its dangers.

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on the diet fuited to the particular consplaints they are most liable to. And after the hints that have been thrown out through the former part of this work, it may be useful to observe, for the fake of those who are unacquainted with diseases, that as light a diet as is poffible is ufually called for when a child is unwell, let the diforder be almost whatever it may. If a fever should accompany it, the child will require still lefs food than in any other complaint, but plenty of drinks; which may also be fo calculated as to furnish near as much nourifhment 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 harts-horn fhavings, with a little baked flour in it. Inthis complaint, wherein also much nourifhment is required to fupport the child under it, baked flour mixed up with boiled:

boiled milk, (as mentioned under the article of purging) is admirably calculated both as a proper diet and medicine. I have therefore only to add to what was there observed, that the flour ought to be put into a fmall jar, and being properly covered, is to be fent to the oven with directions not only to be well baked, but be taken out of the oven feveral times, and ftirred up from the bottom and fides of the jar, that it may not form into hard lumps, but the whole be equally baked, till it falls into a foft, greyish coloured powder; which if kept in a dry place, may be preferved fit for use for a 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 cinnamon, 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

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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 firft paffages, broth-panada ought to be tried.

Perhaps much more has been faid on the fubject of acidity, by fome writers, than really ought to have been, or it may at leaft be fufpected, a proper attention has not been paid to the peculiar circumftances of infants, who are always much difpofed to it. Acidity is probably rather an effect, than the firft caufe of the diforders of infants; though there is no doubt that their complaints are afterwards aggravated by an abounding acid. Nature however *defigned* the food of infants

fants to be acefcent, and till the body be difordered, and digeftion hurt from fome 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, cæteris 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 diftilled water, now and then, with their

* Such caufe, it has been obferved, is very generally an over quantity of food, or heavy and indigeftible diet, which prove a more frequent occafion of acidity, than any thing elfe.

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food*, fuch as fweet fennel, or cardamon feeds, bruifed very fine; but dillwater is that I have ufually recommended, and being a liquid, is always ready to be added to the food, without loss of time.

Children, however, become lefs fubject to wind and hurtful acidities as they grow older, and the ftomach gets ftronger, as it is called. But fhould thefe complaints notwithftanding continue obftinate, a little fine powder of camomile flowers, mixed in water, and warmed with a very little ginger, will prove exceedingly bracing to the ftomach and bowels, and render them lefs difpofed to

* Though fuch an occafional addition to their food is often exceedingly ufeful, I cannot help fpeaking against its being made a constant practice, by which children not only fuffer when by accident, or absence from home, it has been neglected, but it destroys the very design with which it was used, by the stomach becoming accustomed to its

acidity.

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acidity. Exercife alfo according to the age and ftrength, is a grand prefervative and remedy, and efpecially making infants break wind after fucking or feeding, before they are lain down 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 common falt*, which will not at all injure the flavor, and will prevent this change happening too foon in the ftomach.

* It is a very great mistake, though a common one of parents, to imagine that falt will dispose to the fourvy. This mistake is founded upon the bad effects of the long use of falted meats; but falt taken with fresh 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 also makes an excellent wash for the face; which will remove some kind of pimples without any risque of injury to the constitution.

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I fhall now clofe this head, with fome obfervations on the choice of wet-nurfes, and on 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 coffive than otherwife, and not of weak nerves; nor difposed to menstruate whilst she gives fuck. The chief marks of good milk, are its being thin, of a bluish colour, rather fweet, and in great quantity. Her nipple alfo ought to be fmall, but not fhort, and the breast round and prominent. She ought to have good teeth, to be perfectly fober, and rather averfe to ftrong liquors; which young, and healthy people feldom need in order to their having plenty of milk. She should be cleanly in her perfon, good tempered, careful, fond of children, and watchful in the night, or at least, not liable to fuffer in her health from being robbed of her fleep.

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fleep. And I cannot help adding here, that fhe ought not to be difposed to preferibe medicines : otherwise Godfrey's cordial, or some other opiate, will at one time or other be administered, and perhaps to the no small injury of the child.

The proper age for weaning a child is to be gathered from the particular circumftances attending it. The child ought to be in good health, efpecially in regard to its bowels, and doubtlefs ought first to have cut, at least, 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 shall not be very wide of the matter therefore, if we fay children in general ought not to be weaned much earlier than this; making proper allowances, however, for all just exceptions to general rules.

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Any preparation for weaning is generally needlefs, and efpecially that of feeding children before-hand, though made a common excuse 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, because they could not get them to feed when eight or ten months old; and having always found fuch children wean, and feed just as well as others, when once taken wholly from the breaft, I never have any fear on their account, and fhould be happy if any thing I can fay from experience, may be the means of leffening the trouble of parents on this occafion. I do not by this mean 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

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when children happen to be weaned much earlier, and are fed from the birth with that view, they may be effentially injured by it.

When this 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, supposing them to be weaned at the proper age. The mere giving them drink, even only for 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 may be a large belly, weak bowels, general debility, lax joints, and all the fymptoms of rickets. The child need only to be fed the last thing before the nurse goes to bed, which may be generally done without

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out waking it; and whilft the child feems to enjoys this fleepy meal, it becomes a moft pleafant employment to the nurfe, and much more to a mother, from obferving 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.

HEALTHY children fleep a great deal for the firft two or three days after they are born, probably from having been previoufly accuftomed to it. They ought not, however, to be fuffered to con in e this habit in the day time, but fhould be gradually broken of it, and indeed if not indulged, they will not be fo much difpofed to fleep as is generally imagined, and will therefore take more reft

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reft in the night, which is mutually beneficial to the child and the mother; who, efpecially if fhe fuckles, will be much lefs diffurbed, when fhe herfelf particularly requires this refrefiment.

Therefore, when infants are fleeplefs in the night, they fhould be kept awake and have as much exercise as poffible in the day time, which when ever fo young may be pretty confiderable, (as will be mentioned in its place) by playing with them, or dandling on the knee, and otherways amufing them; and when older, by every kind of exercise they can bear. The child will foon contract a habit of being awake while it is light, and by this means, another evil will be very 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.

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But though I am confident these cautions will have their use, I am equally fatisfied that many children have much less fleep than they require; but then this deficiency is chiefly in the night, and the consequence of some complaint which the child labours under. Upon this head, however, sufficient has already been faid in the former part of this work, to which therefore the reader is referred.

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 fometimes more wakeful in the night, or at leaft may caufe them to expect that kind of motion whenever they wake. But yet I cannot help

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help thinking, there is fomething fo truly natural, as well as pleafant, in the wavy motion of a cradle, and fo like what children have been used to before they are born, being then fufpended and accuftomed 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 wishing to follow nature as I do, I cannot, on the whole, but give an opinion rather in favour of the cradle. It is, at least, among the little things in which we may harmlefsly err, and in which every mother may therefore fafely be guided by her own opinion, or even by her feelings. And if the child in confequence of being rocked to fleep in the cradle in the day time, fhall expect it whenever it awakes in the night, it will not be very difficult to find a fubstitute for it; and indeed parents feem, as it were, by inftinct to pat and gently move

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move a child, whether lying on the lap or the arm, whenever it feems 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 of poppies, or any other opiate, to induce it to fleep better; but to which nothing can fo fafely and effectually contribute, as that exercife we are under the next head to confider.

MOTION and REST.

IT is only the former of these that will claim much of our attention, as infants ought scarcely ever to be in a quiescent posture, but when they are asleep. Exercise like Air, is of so much importance to them, that they cannot possibly be truly healthy without it; care only

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only fhould be taken that it be properly fuited to their age. The first kind of exercife confifts in dandling, as it is called, patting the back after feeding, and gently raifing it up and down in the arms; taking care at first not to tofs it too high, for children are very early fusceptible of fear, and even capable of being thrown into fits. Another exercife adapted to this tender age, and of the utmost advantage, is rubbing them with the hand. This should 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 pufhing 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 chang-

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ed, by rubbing the lower limbs, and every other part within reach.

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When children are older, their exercife should be proportionably increafed, and as has been obferved, they ought never to be carried in a quiescent posture, but the arm that supports them should be continually in fuch motion as the nurfe is able to continue. And I mention this, 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 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 difposed to become rickety by improper management in the arms, as if it was lying

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lying wet in the cradle; the ill effects of which have been hinted already.

It may be a proper inquiry in this. place, at what age children fhould be put on their feet; a point on which people have differed confiderably, but I apprehend nothing more is required than to follow nature, whole progrefs is always gradual, as our imitations of her fhould be; and we fhall then feldom run very wide of her intentions. If we take notice of a healthy child, it is, as has been faid, always in motion, and as foon as it gets ftrength, it will fupport 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 S 2 nurfe

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nurfe*, and by its manner of moving its limbs, and its bearing more or lefs on the arms, will fhew 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 leaft

* I cannot help taking notice hereof an imprudence on this occafion, which it is well if it has not been prejudicial oftener than has been fuspected; I mean, that of fuffering a child to crawl fo. high up the breaft, as renders the mother, or nurfe, incapable of raifing 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 feit much on this occasion, from feeing tender and delicate ladies with their arms ona ftretch, fuffering a heavy child, perhaps with its shoes on, to crawl over the breass, diftended with milk, and fqueezing them fo forcibly against the edge of their flays, that they have fometimes cried out from the pain, and yet not been able at the moment to bring the infant down into the lap.

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as far as the straitness 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 was disposed to make the attempt. The mischief is, we lead on children prematurely to make the attempt, by leading-ftrings, back-ftrings, goe-carts, and other contrivances, calculated only to fpare idle nurfes*, or what

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* I cannot avoid once more rifking giving offence, that I may do every thing in my power to induce parents to give the utmost attention in regard to exercife, for the want of which I have with much concern beheld the children of people of large fortune turn out as rickety as those of the labouring poor. In fome infrances, I have been fo fatisfied this has been owing merely to a want of exercife, that I have informed ladies, that from the appearance and manner of the nurfery maid, I was certain their children were not exercifed fufficiently, and have pointed out the bad confequences that must enfue. But inftead of the maid being difmiffed, it has fometimes happened, fhe has only been

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is really pitiable, 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 every child to itfelf, and each will anfwer the queftion in good time.

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It is faid however, by a fenfible writer*, that children's legs do not become

been queftioned about it, and the advice as certainly never been taken; but I have as conftantly been confulted fome months afterwards, about 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.

+ Dr. HUGH SMITH's letters to Married-women.

crooked

crooked by putting them too early on their feet, and afks if any other animal has crooked legs, though they fland 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 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, S 4 for

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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 spare time to afford them, charmed me exceedingly. The good fenfe and philanthropy manifested in it, as well as a defire of extending its useful contents, will I hope be apology fufficient for transcribing it, especially as it is at present fo apposite to my purpose. And though I cannot flatter myfelf that government, however benevolently difposed, will, or perhaps can, at this time, adopt fuch a plan, either from his recommendation or mine, it is nevertheless in the power of people of large fortunes, both in town and country, to give it very confiderable influence, efpecially if the premium were made double for fuch children as fhould be produced in good health. The Doctor's words are,

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"If it were made the intereft of the poor to keep their children alive, we fhould lofe very few of them. A fmall premium 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 hofpitals for that purpofe. This would make the poor efteem fertility a bleffing, whereas many of them think it the greateft curfe that can befal them;" and I may add, I have known them very thankful that their children were dead.

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 just obferve, that it tends to push 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 the growth of the infant, whilft it preferves the blood in a proper flate of fluidity, and promotes both the fecretions and excretions; which are the next things it was proposed to confider.

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RETENTION and EXCRETION.

EVERY 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 perspiration excepted, are chiefly from the bowels and bladder; but the latter is not very liable to diforders. It will be fufficient therefore to fay, that the chief retention of urine appears foon after birth, and is ufually removed by applying a bladder of hot water to the belly, and gentle rubbing

rubbing with a little warm brandy, or an onion; or fhould this fail, the child may be put up to the breaft in a pan of warm water, and take a little marsh-mallow, or parfley-tea, fweetened with honey, and a few drops of fweet fpirit of vitriol. This, if there be no mal-formation of parts, will generally produce the defired effect in the course of a few hours; though cases have occurred in which infants have voided no urine for the fpace of four days, and have fuffered very little inconvenience. Some of the old writers have fpoken also of incontinence of urine, arifing from weakness of the sphincter vesicæ, but I have never met with it in infants. They prefcribe agrimony, and direct aftringent fomentations of red wine to the belly, perinæum, and loins.

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Our obfervations are therefore chiefly confined to the bowels, which would call for a ferupulous attention in this place, if fo many things relative to them had not

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not been discussed 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 together, who have not two or three ftools every day, or fhould they be more, for the first three months, and the child be brought up at the breaft, and the nurse have a sufficiency of milk, it will generally thrive the better. The ftools likewife ought to be loofe, of a yellow color, free from lumps, or curdly matter, and fhould come away without griping. On the other hand, if an infant be brought up by hand, the danger generally lies in the other extreme, fuch children being disposed to be purged, and to have griping and four ftools, from the acescent, and often indigestible nature of their food, especially if fed by the fpoon; and therefore require an early attention when their bowels are difposed

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disposed to be open, and their food to be changed in the manner directed under the article of purging.

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The PASSIONS OF THE MIND was the last article mentioned as included in the Non-naturals, and on which I shall be very brief, as it can relate to infants merely in its effects; of which I shall instance only, in Crying. A variety of confiderations induce me to believe that this expression of the passions in infants, is much more harmlefs in itfelf than is generally imagined, and is often, in fome respect, falutary. The first cries it makes we know to be fo, and that it recovers 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

air-veffels, that run through them *. But as infants are incapable of giving themfelves any exercise, 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 substituted in its stead. Whatever is truly natural I always believe to be right, though every thing is capable of being abused, and the most beneficial dictates of nature may be exceeded. I am fatisfied however, that the common method of pacifying children by cramming them with food, when they are not hungry, creates much greater evils in thousands of instances, than ever were produced by the efforts of crying .- But the nurfe who can, with calmness, hear an infant cry without attempting to pacify it, by every proper means, is a monster in human shape,

* Fletus moderatus pueris non obest-pectus dilatat et calefacit. PRIMEROSE.

unfit

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unfit to be trufted with the care of any animal being, much lefs with a tender, helplefs creature, whofe only language, by which it can express its wants or its fufferings, is its Tears.

I cannot help trefpaffing on the reader's time to make an apology for having dwelt fo long on this, as well as on feveral other heads; my motive has been the defire of inftructing, even at the rifque of difpleafing; and for the fake of my fair readers, who may do me the honour to confult 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, though 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

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ful not to put a child to her breast, when under the influence of any violent paffion, of whatever kind it may be, the bad effects of which have already been instanced in the former part of this treatife. And I shall think myfelf well recompensed for the little trouble I have had, if this, or any other hint, may prove a 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 forrow, is pierced with double pangs at its leaving it.

THE END.

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