An essay on the diseases most fatal to infants. To which are added rules to be observed in the nursing of children: with a particular view to those who are brought up by hand ... / [George Armstrong].

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Armstrong, George, 1719-1789.

Publication/Creation

London : T. Cadell, MDCCLXVII.

Persistent URL

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AN ESSAY Thomas Howell. 1828. ON THE DISEASES Moft Fatal to INFANTS. To which are added RULES to be observed in the NURSING of Children: With a particular View to those who are brought up by HAND. LONDON: Printed for T. CADELL, in the Strand. MDCCLXVII.



SIR JOHN PRINGLE, BARONET,

PHYSICIAN TO HER MAJESTY,

THIS ESSAY IS INSCRIBED ;

AS A TESTIMONY OF THE

SINCEREST ESTEEM AND GRATITUDE,

BY HIS MOST OBEDIENT

HUMBLE SERVANT,

GEORGE ARMSTRONG.

Hampstead, May 14, 1767.



A N ESS A Y ON THE DISEASES Most fatal to INFANTS.

I F we take a furvey of the different provinces of medicine, we shall readily discover, that one which happens to be of the greatest confequence to society, as the population of every country in a great measure depends upon it, I B mean

mean that which regards the difeases of infants, has hitherto lain uncultivated, or at least been much neglected. I do not pretend to account for this strange neglect, nor is it to my purpose; but certain it is, that though the human species can only be preferved by taking proper care of the infant race, which is much more helpless than the young of other animals, and though a much greater number of our species in proportion to the whole, than of any other that we know, dies very young, yet the care of infants, even with regard to medicine, has commonly been left to old women, nurses, and midwives,

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fo that it has been long a common faying in this country, that the best doctor for a child, is an old woman.

may do them a milebiel; infleor

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I know there are fome of the phyfical tribe who are not fond of practifing amongft infants, and I make no fcruple to own, that I was of that number myfelf till within thefe two or three years, that I may venture to fay I have difcovered a more fuccefsful method of treating their complaints.

The most plausible excuse for declining to practise amongst infants is, that they are not capable B 2 of

of telling their ailments; and therefore, fay fome, it is working in the dark, and while you endeavour to relieve them, perhaps you may do them a mischief, instead of any fervice. But let me ask, when a person is delirious in a fever, for instance, how is the phyfician to come at the knowledge of his cafe? The man can no more answer properly any question that is put to him, than if he was an infant; nay, perhaps in his raving he shall mislead you, by mentioning complaints which he really has not; and yet no physician ever thought of giving up his patient merely on that account. In

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In the Apoplexy, when the patient is struck senseless and speechlefs all at once, and fo remains till by proper means his fenses and speech are restored, he can give no information about his illness; and if the physician were to wait for the recovery of his fpeech before he attempted to give him relief, he would probably lofe him; or in case the patient should recover, he would have no great reafon to thank his physician. Many other instances might be adduced where the patient can give no satisfactory account of his complaints.

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But

But though infants are not capable of expressing their complaints by words, the very fymptoms themselves will, for the most part, fpeak for them, in fo plain a manner as to be eafily understood. Thus, for example, if an infant is feized with a violent vomiting and purging, to which they are very fubject, is not the difease as evident in them as in grown perfons? Or if there is no purging, but on the contrary a coffive difposition, do not even the nurses about them know, by the tenfion " and heat of the ftomach and bowels, the violent screaming, and drawing up the feet to the hips, that

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that they have got the dry bellyach, as it is called, or, in other words, an obftruction of the bowels? If a child happens to have a Fever, the increafed heat of the body, the fulnefs and quicknefs of the pulfe, together with the whitenefs of the tongue, reftleffnefs, &c. are fufficient indications of the diforder it labours under.

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These circumstances I mention chiefly to convince those parents and others, who, from a false notion, that there is little or nothing to be done for infants when they are ill, defer calling in proper affistance till it is too late.

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Further,

Further, if infants are to be deprived of the benefit of medicine, because they are not capable of expressing their complaints by words, they will rarely have the advantage of it till they are five or fix years old. For if you ask a boy of three or four what is the matter with him, he will very likely either give you no answer at all, or one that you can make nothing out of. If you ask whether his head akes, perhaps he will fay, Yes. If he has a pain in his ftomach, Yes. And if you ask him twenty fuch questions, he will probably answer in the affirmative; whilst perhaps he has no pain any

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any where. It may possibly be fickness that he takes for pain, not yet knowing the proper distinction between these two words. In order therefore to be rightly informed what his real complaints are, you must apply to the parents or nurse for intelligence. Another, who perhaps is afraid of taking physic, will answer, No, to every question that is put to him. And a third will fay, I don't know, if you should ask him fifty questions. In all these cases you can get no more information from the patient than if he was a mere speechles infant; and if you have no other resource, you must still remain in the dark. But

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But we must not fuffer our helplefs offspring to languish and die because they cannot, or perhaps will not, tell us their ailments. On the contrary, we ought to be the more affiduous to discover their diseases, with the causes of them, in order to procure them speedy relief; as their tender bodies cannot, like those of adults, bear violent and repeated shocks.

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But if we will only give ourfelves the trouble of examining this fubject attentively, we fhall foon be convinced, that though a great part of the human fpecies dies in infancy or childhood, and though many many of them are cut off by difeafes peculiar to infancy, fuch for example as arife from teething, yet their diforders are not fo numerous, nor fo hard to be accounted for, as one unacquainted with the fubject would at first fight imagine.

In the first place, as to their number. They are not fubject to that multitude, both of acute and chronical distempers, which too many grown perfons bring upon themfelves by intemperance, and others have unfortunately brought upon them by hard labour, violent exercife, and the inclemency of the weather, being exposed to heats, cold, damps, &c. They do not fuffer

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suffer from care, or misfortunes in life, which kill many thousands, by bringing on fevers, low spirits, and all forts of nervous diforders. Most of the hereditary difeases do not appear in infancy, not even in childhood; fuch as the gout, the confumption, the palfy. They have likewife nothing to do with the diseases of puberty, which, in the female fex especially, are various, and sometimes mortal. Thus we see their diseases are much fewer in number than those of adults: for excepting what the nurses call inward fits, teething, and the rickets, I do not recollect any particular diforder that infants and children 17 . S. 49 14

dren are fubject to, which adults are exempted from. For as to convultions, the thrush, and the watery-gripes, which kill such a number of infants, adults are subject to them as well as they (though I must own not fo much) the watery-gripes being only another name for a violent *Diarrhea*.

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Their diffempers are not only much fewer in number, than those of grown perfons, but I hope from what follows it will evidently appear, that they are more eafily accounted for, than perhaps is generally imagined; almost all of them arifing from one common cause, cause, and, if treated in a proper manner, are more easily cured.

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It is known from anatomy, that the glands in general, and confequently the glandular fecretions, are much larger, in proportion, in children, than in adults. The glands of the mouth, fauces, gullet, stomach, and intestines, but above all the liver and pancreas, are constantly pouring out their flimy contents (for the bile appears more flimy in infants than in grown perfons) which unless properly evacuated, load their tender bowels, and occasion most of the complaints to which infancy is fubject.

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ject. For as they cannot of themfelves use exercise for promoting digestion, and as their nurses too often neglect to give it them, and to rub them, the contents of their stomach and bowels must stagnate, and either by their viscidity, or acrimony, or both, produce various complaints, and often death itself. And here, I cannot help observing, that this very want of exercise may be one great reason, why a much greater number of our fpecies die in their infancy, than of the young of other animals, even reckoning for the first two or three months only. Some of them, fuch as puppies, kittens, and rabbits, foon E

foon begin to crawl about, and the mothers encourage them to it by playing with them: colts, calves, and lambs, are forced to use their limbs very soon after the birth, being obliged to follow their dams for nourishment. But to return to infants.

INWARD FITS, as they are called, are in general the first complaint that appears in children, and, as far as I have observed, most, if not all infants, during the first months, are more or less liable to them. The symptoms are these. The child appears as if it was asleep, only the eyelids are not quite closed, (17) closed, and if you observe them

narrowly, you shall see the eyes frequently twinkle, with the white of them turned up. There is a kind of tremulous motion in the muscles of the face and lips, which produces fomething like a fimper or a fmile, and fometimes almost the appearance of a laugh. As the diforder increases, the infant's breath feems now and then to ftop for a little; the nose becomes pinched, there is a pale circle about the eyes and mouth, which fometimes changes to livid, and comes and goes by turns; the child starts, especially if you go to ftir it, tho' never so gently, or if you make any noife

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noise near it. Thus disturbed, it fighs, or breaks wind, which gives relief for a little, but presently it relapses into the dozing. Sometimes it struggles hard before it can break wind, and feems as if falling into convultions; but a violent burft of wind from the ftomach, or vomiting, or a loud fit of crying, fets all to rights again. As the child increases in strength, these fits are the more apt to go off fpontaneoufly, and by degrees; but in cafe they do not, and if there is nothing done to remove them, they either degenerate into an almost constant drousines, (which is fucceeded by a fever and the 1. C.T.

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the thrush) or else they terminate in vomitings, sour, curdled, or green stools, the watery-gripes, and convultions. The thrush indeed very often terminates in these last fymptoms. Wherefore as these complaints naturally run into one another, or fucceed each other, they may be confidered, in a manner, as only different stages of the fame difease, and which derive their origin from the fame cause. Thus, the inward fits may be looked upon as the first stage of the diforder; the fever, and thrush (when it happens) as the fecond; the vomitings, sour, curdled, green, or C 2 waterv

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watery stools, as the third; and convulsions, as the last.

As to the caufe of these complaints, I observed before, that in infants the glandular secretions, which are all more or lefs glutinous, are much more copious, than in adults. During the time of fucking, the glands of the mouth and fauces, being squeezed by the contraction of the muscles, spew out their contents plentifully, which afterwards mixing with the mucus of the gullet and stomach, render the milk of a flimy confistence, by which means it is not fo readily abforbed

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absorbed into the lacteals; and as in most infants there is too great an acidity in the stomach, the milk is thereby curdled, which adds to the load; hence fickness and spass; which being communicated by fympathy to the nerves of the gullet and fauces, produce the convultive motions above described, which go commonly by the name of inward fits. The air, likewife, which is drawn in during fuction, mixing with the milk, &c. in the stomach, perhaps, contributes towards increasing the spasms abovementioned. I am the more induced to attribute these fits to the caufes C 3

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causes now affigned, that they always appear immediately after fucking, or feeding; especially if the child has been long at the breast, or fed heartily, and has been laid down to fleep without having first broken wind, which ought never to be done. Another reason which makes me attribute these fits to the above causes, is that nothing relieves them fo foon as belching, or vomiting; and the milk or food they throw up, is generally either curdled, or mixed with a large quantity of heavy phlegm. In cafe they are not relieved by belching or vomiting, the fits fometimes 2010 7

fometimes continue a good while, and gradually abate, according as the contents of the ftomach are pushed into the intestines; and as foon as the former is pretty well emptied, the child is waked by hunger, cries, and wants the breaft; he fucks, and the fame process is repeated. Thus, some children for the first weeks are kept almost always in a dose, or seemingly fo, especially if the nurses, either thro' laziness or want of skill, do not take care to roufe them when they perceive that it is not a right fleep, and keep them awake at proper intervals. This dozing is reckoned C 4 a bad

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a bad fign amongst experienced nurses, who look upon it as a forerunner of the thrush, as indeed it often is; and therefore when it happens, we ought to be upon our guard, to use the necessary precautions, to be mentioned hereafter, for preventing that diforder,

The THRUSH in infants, generally appears first upon the tongue, and the back part of the roof of the mouth, in the form of small white specks or sloughs, which increasing in fize and number, run together, and compose a superficial white crust, lining the whole

whole internal furface of the mouth, from the lips to the Oefophagus, and from thence is fometimes continued quite through the stomach and intestinal canal to the Anus; at least it makes its appearance very plainly in this part. Sometimes, when this white crust falls off, it is fucceeded by another, which is thicker, and not fo white, and this by a third, &c. if the difease has been neglected, or if the humours are very sharp. The oftner the crust is removed, the worfe it becomes, and acquires more of a yellow or brownish cast. It is commonly attended with a fever, and a great

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heat of the mouth, which becomes often so tender and painful, that the child refuses the breast. Sometimes, however, there is little or no fever to be observed, which happens chiefly when the thrush appears foon after the birth, and before there has been any diforder in the bowels. As to the black thrush, so often mentioned by authors who have written on this distemper, I do not remember to have feen it in infants; and as I have been daily employed amongst them for feveral years past, I imagine it must rarely occur, otherwise I must have met with it. Indeed the air

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air of the place where I have practifed being remarkably dry, may be one reason why that kind of thrush does not make its appearance; for I take it always to be a putrid fymptom. In a child that I attended, of four years old, who died of a putrid fever, there was feveral days before its death, a black flough on the tongue, especially towards the root, and feveral little angry ulcers here and there, on the infide of the lips and cheeks, which perhaps was that which fome people call the black thrush. But this was the youngest patient whom I ever obferved to have it, and it feemed to be

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be a confequence of the fever, and the putrid state of the humours, not the original disease.

If the thrush is not stopt, the contents of the ftomach and bowels, becoming still more acrid, produce vomitings, sour, curdled, slimy, or green flools, the WATERY-GRIPES and CONVULSIONS. As to vomiting and green stools, there are few infants who are not subject to them at times; and many children would thrive better if they vomited more than they do, I mean fuch as are liable to inward fits, without vomiting. But when this fymptom

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fymptom becomes violent, and the ftools are four, curdled, flimy, or green, it is full time to administer speedy relief, otherwise the waterygripes are threatened, and which, for the most part, soon terminate in convulsions and death.

Though these complaints often fucceed each other in the manner above described, yet I would not be thought to mean, that they always observe the same progress. Thus, for instance, numbers of children have sour, curdled, slimy, or green stools, without ever having the thrush. Many have the thrush, thrush, without the watery-gripes, and fome the watery-gripes without having the thrush. Sometimes too, the watery-gripes come suddenly upon them, without any previous diforder, owing either to the nurse, or to the child's having caught a violent cold, some error in diet of the nurse, to the constitution of the air at the time, or the striking in of a rash.

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The difeafe has been called the WATERY-GRIPES, from the ftools being as thin as water, attended with violent gripes. Sometimes they are colourlefs, fometimes mixed with little ftreaks of blood, and fometimes

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times of a brownish cast, like a a filthy mate kind of putrid *fanies*, of a very the blood an strong and offensive smell, but al- Water ways very thin.

As to the CONVULSIONS, in which most of the difeases of children terminate before they die, they are fo well known to every body. that it would be needlefs to defcribe them. I take them in general to pricking be owing to a *stimulus* communi-Initation cated to the nerves, either by the acrimony of the contents of the bowels, or by an inflammation in those parts, or in the gums at the time of teething, unless where the brain
brain is primarily affected. Hence, except in this last case, they are to be confidered, properly speaking, as a symptom, not as a disease. Convultions, for the most part, close the scene in adults, as well as in infants; but because they die convulsed, we do not therefore fay that they die of convultions, though this is constantly faid with regard to children, merely through the ignorance of the perfons about them, who do not know what other name to give to the difeafe. Hence in the weekly bills of mortality, convulsions are always faid to sweep off a great many children. But

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But it is neceffary to diffinguish between the symptomatic and idiopathic convulsions, or those in which the brain seems to be immediately concerned; because such certainly require a different treatment.

So much for the Diagnostics, and causes of those diforders, which I have observed to be the most fatal to infants. I proceed now to the cure.

To begin with what is called the INWARD FITS. I faid before, that as far as I had obferved, most, if not all infants, are more or less subject to them from their birth; D and

and this disposition continues till they come to be about three months old. As they are common to most children at this early period of life, and of themselves are not mortal, parents and nurses are not much alarmed at them; but yet it is necessary to be attentive to them : because if they are not kept under, they become a certain prelude to fomething worfe, which by removing them in time might of course be prevented, and thereby the lives of many infants faved. The best method to prevent their increasing, is never to lay the child down after it has sucked, or been fed, till it has broken wind upward

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ward or downwards, two or three times, the oftner the better. For this purpose, instead of laying it down on the bed, or cradle, let the nurse hold it floping in her arms, dandle it, pat its back, and rub the palms of its hands pretty fmartly, which, generally fpeaking, will have the defired effect. But if these means should not fucceed, I would recommend a gentle puke, to be repeated from time to time, as occasion requires. I am fully convinced from the practice which I have had amongst children, that if such a puke were given to infants foon after they are born, instead of a purge, and re-D 2 peated

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peated occasionally, it would be of much more fervice, and fatigue them a great deal lefs. Nay, if they are apt to be fick, which very often happens, and is eafily known by their frequent vomiting or retching, or change of colour, turning commonly pale or wan when the ftomach is fick, I am very certain that a puke is the quickest and most effectual remedy. A few drops of the antimonial wine, viz. from five to ten, will generally be sufficient for a young infant; and that medicine has this advantage, that it commonly operates both ways, and by that means thoroughly cleanfes the bowels.

bowels. If it operates once, or twice at most, it is sufficient, and instead of straining them much at a time, it is better to repeat the puke again soon, if necessary. I have given five drops to children a few days after their birth, without finding it too strong for them, and I seldom give a larger dose till they are about a month old, repeating it within half an hour, in cafe the first has not operated. After the first month, you may give seven, eight, nine, or ten drops, according to the child's ftrength, or the urgency of the cafe, and at three or four months old, from ten to fifteen. But I always begin with D 3

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with a fmall dofe, for children differ full as much in that refpect as grown perfons, fome of them, being much eafier vomited than others. Befides twenty drops will very often vomit a child of three or four years old, that has not been accuftomed to this medicine: but if there is occafion to repeat it foon afterwards, the quantity muft be increafed.

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Though this has the character of being a rough medicine, which perhaps may make fome afraid to give it to those tender patients, I can assure them I have given it to many children at different ages, fome fome of them, as has just been obferved, very young, and to the fame children at different times, yet I never once knew it to have any bad effect, but much the contrary.

But there is one rule which ought conftantly to be observed in administring vomits to infants, as well as adults, that is, never to give them when the patient is coftive, without first opening the body by means of a gentle purge, or glyster. The not attending to this precaution, has brought an imputation upon emetics, when D 4 the the fault only lay in neglecting this rule.

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Next to the above method, there is nothing that contributes more to make infants, during the first months, thriving and healthy, than preferving them from catching cold, by keeping them in a proper warmth, as dry as possible, and rubbing their limbs and belly frequently, with a warm hand, before the fire. A person unused to the management of children, would be furprized to fee how foon they delight in this exercise, and how ftrongly they express the comfort it gives them.

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In cafe the above directions are observed; that is to fay, provided the child be never laid down to fleep, after it has been fuckled or fed, till it breaks wind upwards or downwards, two or three times, and if that cannot be procured by the eafy means above directed, a gentle puke be given, of the antimonial wine, above recommended; if it is preferved from catching cold, kept as dry as poffible, and the limbs and belly rubbed frequently, and for a good while together, with a warm hand before the fire; if it has been born to the full time, of healthy parents, is not remarkably weakly, nor

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nor fubject to rafhes, and is fuckled by a healthy nurfe, careful of her diet, or if the child is brought up by the hand with proper nourifhment, we need not be much afraid either of the Thrufh, green ftools, the water-gripes, or even of Convulfions, except the idiopathic, till the time of teething.

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With regard to the cure of the THRUSH, whatever kind it is of, and at what time foever it happens, as it appears to be chiefly owing to a foulnefs of the ftomach and bowels, attended for the moft part with more or lefs of a fever, and always makes its first appearance (43)

ance in the mouth, proceeding gradually downwards, the most rational method to me feemed, first to empty the flomach, and then the intestines; for by these means the first passages being freed of their acrid contents, I imagined that the fever would fubfide of course; and indeed this I have found by experience to be the cafe. For this intention I have observed nothing to fucceed better than the antimonial wine just mentioned, given as a puke, more or lefs, according to the ftrength of the patient, and repeated as the exigency of the cafe required.

If the child is coftive, a glyfter, or two or three grains of the *pulvis jallap*, rubbed with a double quantity of fugar, will be neceffary to be given first, and this must likewife be repeated occasionally.

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As to topical applications, the beft I know is a folution of the white vitriol, in common water, in barley water, or in the pectoral decoction, about half a fcruple to eight ounces, at first. If that should be too weak, it will be an easy matter to make it stronger by degrees. A linnen rag is to be dipped in it a little warm, and either with the finger, or tied on a bia

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bit of flick, the child's mouth must be rubbed with it, three or four times in four and twenty hours, according to the urgency of the case, or as the tenderness of the parts will admit. If he swallows a little now and then, a tea-spoonful or so, at a time, so much the better, as it helps to cleanse the stomach and bowels at the same time.

The white vitriol being fo generally ufeful in collyriums, and of fo cleanfing a nature, made me first try it in a gargle, and I have found it fucceed fo well both in infants and adults, that I feldom ufe

use any other, except where the tongue is dry and parched. As it cleanses not only the mouth and throat, but likewife the flomach, this quantity makes it doubly ufeful to children who have not fenfe to fpit out whatever the mouth is washed with. By means of this gargle alone, I lately cured the worft canker in the mouth that I ever faw, in a boy of five years old. The tongue was covered with a thick white cruft, like the thrush, and the infide of the cheeks and the gums were full of angry pustules, and little fungous excrefcences, like warts. The faliva drivelled from him, as if he had been

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been in a falivation; and his mouth and throat were fo tender, that though he was very hungry, it was a difficult matter to force him to take any nourifhment. As he was not feverifh, and had no other complaint befides the above-mentioned, I ordered nothing elfe for him at the time befides the gargle, and he got quite well in a very few days.

When a child is feized with a PURGING, whether the flools are four, curdled, flimy, green, or watery, the common practice is, to give fmall dofes of rhubarb, mixed with Gascoigne's powder, a 3 little

little giated nutmeg, or the pulvis e der Abrabs chelis cancr; and some prefer magvs. or Jesta nefia, either alone, or mixed with Ponders the pulvis e chelis, or the like, according as the stools are more or less loofe. As to the rhubarb, I have reason to suspect, that sometimes it may impose upon us, by giving its own colour to the stools, while they remain in other respects as before: Besides, rhubarb, to fome grown perfons is very griping, and therefore we ought to be particularly careful in observing whether it has not the fame effect upon children. I look upon the magnefia as a safer medicine; but a better than either, as I am convinced

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vinced from repeated experience, is fuch a puke as was mentioned. before. This is going to the root of the complaint at once. For, as, the green stools are owing to the too great quantity and acrimony of the bile, and the four, curdled, and flimy ones, to a load of acid phlegm in the primæ viæ, the rea- first Pafra diest way of relieving the patient is, by carrying off that load as foon as poffible. For if you endeavour, as most authors advise, by antacids and abforbents, first to correct the acrimony of the peccant matter, as they stile it, before you attempt to expel it, when the E

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the cafe is urgent, as very oftent happens, it is odds that you never have an opportunity to make use of evacuants. But by unloading the flomach and bowels with a puke, which, generally speaking, in these cases, operates both ways, you give immediate relief, and what remains may be corrected, and carried off, by means of the absorbent and purging medicines above mentioned, in cafe the child has not strength fufficient to bear the puke to be repeated; for it often happens, that parents, as well as nurfes, neglect to call in proper affistance in time, from the too prevalent

prevalent notion, as I observed before, that there is little or nothing to be done for infants, by which means they are fometimes almost in extremity, when we are first called to them. But if the child's ftrength will bear it, the best way is to repeat the antimonial wine every five or fix hours, till the ftools begin visibly to change for the better, and then every eight or ten hours, till they return to their natural colour and confisience. The emetic operating upon the phlegm and bile, generally makes the child very fick at first, but when once that load is brought up, E 2

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it seems presently relie e d; and it very feldom happens, that the repetition of the same dose ever makes it fo fick again : wherefore the dole must be increased from time to time, if the fymptoms do not abate to your wish. I have seen children fo bad in the waterygripes, that they feemed to be falling into convultions, and the most desperate circumstances, who yet were by this method, in a few hours, restored to a state of safety, which I am fully affured would not have happened by the common method of treatment. Sometimes indeed, a child who happens to be 22 uncommonly

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uncommonly ftrong, whole ftomach and bowels, ftimulated by their acrid contents, have emptied themfelves pretty thoroughly, will then receive confiderable benefit from the antacid and absorbent medicines, and especially from the chalk julep. But to throw in these medicines before the bowels are in a good measure freed from their stimulating load, is counteracting nature, instead of assisting her, and allows the difease to gain ground unobserved, while in the mean time, the child grows gradually weaker, and at last has not strength to bear the necessary evacuations asserind. E 3 By

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By means of the last mentioned antacid and absorbent medicines, together with astringents, given by the mouth, and likewife in the form of glyfters, I have frequently feen the loofeness checked for some time, but then the feverish fymptoms have increased, and the purging returning with double violence, has quickly carried off the patient. But ever fince I have practifed this method of treating these complaints of the bowels by repeated pukes, I have feldom had occasion to give any thing elfe, except when the child has been griped and reftless after the first passages

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paffages were cleanfed, a gentle paregoric, fuch as a dram of the fyr. papav. rheados, in a large fpoon- for the ful of the fennel, or weak cinnamon water; repeated every three or four hours, till the reft is procured.

When the ftools fmelt very four, were curdled, or green, I have lately given three or four drops of the *Lixivium Tartari*, with the emetic; and afterwards, between whiles, the fame quantity in a little water, fweetened with fugar, or fyrup, with very good fuccefs. When the milk is apt to curdle on E_4 the

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the flomach, this medicine is particularly useful, and as far as I have seen, it is perfectly harmless.

As fome children are very liable to have returns of these complaints for the first two or three months, the fame method must be repeated occasionally. But here I must mention again, what I faid before in the cure of inward fits, and of the thrush that the antimonial pukes are the best in these cafes also; as they operate most effectually upon the phlegm and bile, and generally evacuate both ways.

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ways. Befides, whether by carrying off the acrid bile, or by fome other power, they certainly contribute to abate the fever; which is a constant and dangerous attendant of these diforders, when violent; and I am afraid such tender patients would not bear bleeding. The antimonial emetics (viz. the antimonial wine, or a very weak * folution of the emetic Tartar, which

* Note. The folution I commonly use is, one grain of emetic Tartar, dissolved in three ounces of water, and sweetened with a little fyrup. To very young infants, I give a tea-spoonful; to one of three months, two; and so on, repeating it in the same manner as the antimonial wine. As far as l can which may be given as fafely as the other if properly dofed) have likewise this advantage, that, not being nauseous, they are eafily fwallowed, and stay longer upon the formach than the ipecacuanha, which can hardly be forced down in any preparation; and when it gets down, it stays too short a while to produce any confiderable effect. And this reminds me of a circumstance necessary to be mentioned, which is, that when the watery-gripes

I can judge from the experience I have had of it, a middling tea-spoonful of this solution, is equal to about five drops of the wine.

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are attended with a vomiting, which is often the cafe, the puke should be given in small quantities, frequently repeated, till the stomach is well cleansed.

In this method I have, for upwards of two years, treated these complaints of children: and with fuch fuccefs, that I can freely recommend it to others. But at the fame time, I am not fo fanguine as to confider it as infallible, being certain that it fometimes must fail, in the fame manner as does the bark in the cure of intermittents. I shall mention one case which I. met

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met with a little while before I fell upon this method, wherein probably it would not have fucceeded; and as more of that kind may now and then occur, it may be of use to give a short account of it.

A boy, about fix months old, was feized with a vomiting and purging, attended with fome degree of fever, great inquietude, and he feemed to be threatened with convultions. What he vomited was chiefly the milk which he had fucked; his flools at first were greenish,

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greenish, but soon turned watery; and fo continued to the last. He had been ill fix days before I faw him. I ordered him first a few grains of the powder of ipecacuanha, which was no fooner fwallowed, than it came up again. After this he had the chalk julep, and starch glyfters, with a few drops of the tinctura thebaica, which relieved him from time to time; but the fymptoms still returning with great violence, he died.

Upon opening the body, I found the stomach, and the whole intestinal canal, from the *pylorus* to the

the anus, perfectly empty, which in some measure accounted for one fymptom during the latter part of his illnefs; which was, that his navel feemed almost shrunk into his back. The vomiting and purging had lasted ten days, which is much longer than the common watery-gripes ever do. There were no figns of inflammation any where in the flomach or inteflines, and the liver, spleen, and pancreas, were all of the natural fize and appearance. I was not a little furprized to see all these parts look fo well, and was just going to finish my enquiry, when I obferved,

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ferved, that the right kidney was larger than natural, and of a more livid colour. I therefore took it out, and cut through the convex fide of it into the pelvis, which I found almost full of gravel, some of which was concreted, and had taken the form of that part of the pelvis where it was lodged. The kidney itself bore the marks of an inflammation, and that I suppose had occasioned the whole complaint, by bringing on the fever, and affecting the neighbouring viscera. The left kidney was not fwelled, nor did it feem to have been inflamed, though it likewife 2

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wise contained gravel, but in a simaller quantity.

Now here was a cafe where the above method could not fucceed, (unless from the febrifuge quality of the medicine) nor perhaps any other; but it is probable that instances of this kind very feldom occur in fuch young patients. If I had fuspected gravel, I should have tried the semicupium; but as he never had any stoppage in making water all the time, I had no suspicion of the real cause of the difease. Upon asking the child's mother if her husband or herfelf : 7

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herfelf were subject to the gravel; she told me she was, and had bred the child with it, as she expressed herfelf.

In a cafe of the watery-gripes; wherein it was tried last fummer, it did not prove effectual, though for two or three days at first the child feemed to be the better for it. But upon examining the body, after death, it appeared, that, as far as we could judge, the cafe was really incurable. The body was opened by Dr. Hunter, who, upon handling the stomach gently, found the coats of it give way, as if they had F

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had been reduced by maceration to almost a glutinous confistence, and the fmall guts, their whole length, were in the fame tender condition. In the mean time, there was no appearance, either of inflammation or mortification, and the fmell was lefs offenfive than is usual in dead subjects. The texture of the great intestines feemed fufficiently firm, and the reft of the abdominal vifcera had all the natural appearance. I think it will be allowed, that its not fucceeding in this cafe could bring no difgrace upon the medicine; the flimfy structure of the stomach and

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and fmall inteftines being fufficient to prevent the fuccefs of any medicine whatever.

I come now to the article of CONVULSIONS, which I diffinguished before into two forts, viz. the symptomatic (or those which are owing to a stimulus, communicated to the nerves by an irritation in the stomach or bowels, or the gums in time of teething, &c. which are by much the most frequent) and the idiopathic, in which the brain is primarily affected. As for the first, whatever removes the stimulus above-mentioned, or, in other F 2 words,
words whatever clears the bowels of their acrid contents, or renders these contents mild and inoffensive, will of course cure the Convulsions. Wherefore, if the child is coftive, the best way is to begin with a glyster, and afterwards give a puke, which must be repeated occasionally, and the belly kept open between whiles with the magnefia, or small quantities of rhubarb, mixed with abforbents. Sometimes they are owing to the ftriking in of a Rash, or to a sudden stopping of that discharge behind the ears, which is fo falutary to infants, from the child's having catched cold; in both

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both which cafes the bowels are commonly affected, and must be particularly regarded, in the manner just now recommended. But, befides, it will be necessary to apply a blister between the shoulders, or a couple behind the ears. The warm bath too is sometimes of great fervice here.

By attentively obferving the above circumftances and directions, the fymptomatic convultions, if taken in time, may frequently be cured. But the idiopathic are much harder to manage. It is, however, a great happinels that these do not fo often occur. All that I shall fay of F_3 them

them at present is, that I think they may for the most part be diftinguished from the other fort by the following circumstances. When a child is feized with Convulfions, without having any complaint in the bowels, or fymptoms of teething, especially if they happen before the teeth fhoot into the gums, and if the child has had no rafh, nor the difcharge behind the ears dried up, we may reafonably fuppose them to be idiopathic.

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I was called to a cafe of this kind about a year ago. A child about five weeks old, very healthy and

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and thriving from the birth, was fuddenly feized with Convultions. He had no complaint in his bowels, but however the nurse gave him a glyster. It confisted only of broth and oil, and operated but once; if it had been ftronger, perhaps it might have had a better effect. The child was taken ill about five in the afternoon, but they deferred fending for me till eight o'clock next morning, when he was just a dying. Now, as the child had always been remarkably well in his bowels, and, even after he was feized with fits, had no fickness, nor purging, nor swel-F 4 ling

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ling in the belly, and was too young for teething, I referred this cafe of Convultions to the idiopathic. Upon enquiring of the mother, who fuckled him, whether she knew of any thing that could affect the child fo fuddenly, and in so violent a manner, she told me that the evening before she had been surprized and overjoyed at the unexpected arrival of her husband, who had been absent for feveral months, and that she apprehended this incident might have had a bad effect upon her milk. Perhaps sharp glysters, the semicupium, blistering the legs or feet,

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feet, or behind the ears, to procure a difcharge there, may be of use in such cases. But this is only conjecture; and until I can recommend a successful way of treating them from experience, I shall say no more about them.

Thus much concerning the difeafes most incident and fatal to infants, during the first few months after the birth, viz. Inward Fits, the Thrush, loose, sour, curdled, or green stools, the Waterygripes, and Convulsions.

I

I come next to TEETHING, which, in the fame manner as was observed on convulsions, is faid to carry off a much greater number of children than it actually does; for almost all children that die while they are about teeth, are faid to die of teething. Children who are feized fuddenly with ftrong convultions, which quickly carry them off while they are cutting their teeth, may often be faid to die of teething; but we cannot be fure that this is always the cafe neither, as there are instances of the fame kind of convultions occurring both before and after the usual time

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time of cutting the teeth ; witnefs the cafe of the boy above-mentioned. But except in fuch cafes, which feldom happen, teething, of itself, is not properly a disease, because though many children die while they are breeding and cutting their teeth, yet there are feveral who breed and cut them without any bad fymptom. Dr. CA-DOGAN, in his ingenious Essay upon Nursing, &c. p. 31, makes the following reflections : " Breed-" ing teeth has been thought to " be, and is, fatal to many chil-" dren; but I am confident this is not from nature; for it is no " disease,

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ff difease, or we could not be well " in health till one or two and " twenty, or later. Teeth are " breeding the greatest part of " that time, and it is my opinion " the last teeth give more pain " than the first, as the bones " and gums they are to " pierce, are grown more firm " and hard. But whatever fever, " fits, or other dangerous fymp-" toms, feem to attend this ope-" ration of nature, healthy chil-" dren have sometimes bred their " teeth without any fuch bad ac-" cidents; which ought to incline " us to suspect the evil not to be " natural,

" natural, but rather the effect of " too great a fulnefs, or the cor-" rupt humours of the body put " into agitation by the ftimulating " pain the tooth caufes in break-" ing its way out. This, I be-" lieve, never happens without " fome pain, and poffibly a little " fever; but if the blood and " juices be perfectly fweet and " good, and there be not too great a redundancy of them, both will " be but flight, and pass off im-" perceptibly without any bad « consequence whatever."

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Thus we see it is the Doctor's opinion, that the dangers which attend attend teething are owing to too great a fulnefs, or the corrupt humours of the body being put into agitation by the stimulating pain the tooth causes in breaking its way out. But, whether there is too great a fulness, or the humours are corrupted, proper evacuations must be of the greatest fervice; and in general we find, that children who drivel plentifully, and are loofe in their body, while they are about teeth, cut them the eafieft. Whenever therefore it happens, either from the child's having got a cold, or from some error in diet, or accidentally catching a fever, that these evacuations are ftopt, we muft 4

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must endeavour to restore them as foon as possible. For this purpose the best way, if the child is costive, is to open the body with a glyster, or a gentle dose of physic, if the case is not urgent, and afterwards give a puke ; repeating it as occasion requires. This method I have tried several times with success, and even when there was a fever attending the teething.

Towards the end of August and the beginning of September was a twelvemonth, a fever was frequent here amongst children; and as several of them happened to be about teething at the time, the diftemper

temper was looked upon by fome as entirely owing to that caufe. But whether it was properly what they call a Teething Fever or not, to those who cut teeth during the time of it, it was certainly as bad; and would; no doubt; have been confidered as fuch, if they had died of it. The fever was at first very high, but in all of them, after a day or two, it remitted, that is, it grew fenfibly worfe in the evening, and better towards morning; and in some few, after having lasted in this shape about a week, it came to an intermission. Most of these children were threatened with fits, and fome had flight 8 cona

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convultions. As none of those whom I had the care of were coftive, but most of them inclined the other way, and fome had a purging, I puked them all as foon as I was called, which feemed to have a good effect. Afterwards I gave them fmall alterative dofes of the antimonial wine, or of a very weak folution of the emetic tartar, with, or without, the pulvis e chelis, according to the state of the bowels, made up into a mixture, a dole of which was to be taken every four, five, or fix hours, as the violence of the fymptoms, and the age or strength of the patient required; and they all G reco-

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recovered. Even where the fever intermitted they alfo got well, by purfuing the fame method; only every now and then, according as the child could bear it, I increafed the dofe of the alterative fo as to make it puke a little, in which operation it always difcharged more or lefs bile.

But I must not difmits this fubject without observing that when the fever runs high, and the teeth are near cutting, especially the grinders, which, on account of their bluntness, do not pierce the gum so readily, it will be proper to

very weak foliation of

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to use the fleem. This I have fometimes seen give immediate relief, but have oftner been disappointed. However, in the above circumstances, if the child is convulsed, and the jaw not locked, it is certainly right to try it.

Children, while they are about Teeth, are frequently fubject to various forts of irruptions, commonly called a RASH. Sometimes it fpreads all over them, and appears very much like the itch. Sometimes it is confined to the head and face, appearing in the G_2 form

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form of very large fcabs, or blotches, a good deal like the small pox, just after they are turned. Whatever fort it is of, if the child is otherwife well, and not coffive, it is perhaps the most prudent way not to meddle with it. When the face has been much diffigured by it, which has made the parents impatient to have fomething done, I have feen very good effects from a small blifter, applied between the shoulders, and kept running for some time. But I never durst venture to apply any thing to the scabs themselves.

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They are likewife subject to the RASH foon after they are born, which upon their catching cold, is apt to strike in, and fall upon the bowels, as I hinted before, occasioning vomitings, green stools, the watery-gripes, and convulfions. In this cafe, befides the method recommended in these complaints, I have feen the warm bath of fingular fervice; and very good effects from a blifter.

I was fent for laft fummer to a cafe of this kind. A child about fix weeks old was feized with the watery-gripes from the firking in G_3 of

of a Rash. She had been ill upwards of two days before I was called to her, and when I first faw her, she seemed to be just dying. Her face was livid and contracted, her eyes fixed and glazed, and her hands clenched with convultions. As I understood that her illness was owing to the striking in of a Rash, I ordered her to be put into warm water as foon as possible, as high as the breaft; the belly and limbs to be well rubbed with the hand all the while she was in the water. She had not been in above a few minutes, when a fine glow came upon the countenance, the eyes recovered

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covered their lustre, and she looked about her as if nothing had ailed her. I had her kept in the bath for a quarter of an hour, or longer, after which she was wrapt up in warm flannel, and put to bed, where she sweated plentifully, and flept feveral hours. After the sweat was over, a blifter was applied between her shoulders, and though the Rash did not return, she very soon got well.

Befides the difeases treated of above, there are some others, such as the SMALL-Pox, MEASLES, and CHIN-COUGH, which, as G 4 is

adults, and in the beginning of

is too well known, carry off numbers of children. But fince these distempers, especially the two first, are more fatal to grown perfons, than to children or infants, they cannot properly be confidered as peculiar to childhood. However, as the Small-Pox was very frequent here last fpring, and the beginning of fummer, I had feveral opportunities of trying the antimonial folution, both in children and adults, and in the beginning of the difease, where the ftomach was foul, it had a remarkable good effect. But when the fever was high, I always made it a rule to take

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take away fome blood first; and if the body was costive, to give an opening glyster.

I have not had occasion to try it in the MEASLES, most of my patients in that diftemper lately, having had so favourable a fort, that they readily got well in the common method of treating it.

But in the CHIN-COUGH, I have tried it with very good fuccefs; and from the experience I have had of it, have reafon to think, that if it is given in time, it will often prevent that obftinate complaint

complaint from arriving at fuch a heigth, or continuing fo long as it commonly does. In this difease, I give the folution once or twice a day, if the child can bear it, in a fufficient quantity to occasion a retching, and thereby bring up the phlegm, which children always swallow, instead of spitting it up. If the Cough happens to be worfe at any particular time of the day, which is fometimes the cafe, I order it to be given about an hour before the paroxyim is expected, and if it is worfe in the night, about an hour before bed-time.

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When the violence of the Cough is over, it will be fufficient to give the medicine once or twice a week, according as the phlegm gathers, lefs or more, which can eafily be judged of, not only by the quantity thrown up during the coughing, but likewife by its rattling in the throat between the paroxyfms.

Since the beginning of last year, I have attended fourteen patients in the HOOPING-COUGH, all children, but one. Some of them had it to a very fevere degree; and one child, a little under two years of age, had, at the beginning, a remittent mittent fever, and fits attending the Cough. I treated them in the manner abovementioned, with the antimonial mixture; and they all got very well over the difease, except one. This was a child about two years and a half old, who had been violently feized with the Hooping-Cough, while at the fame time the was extremely ill of the meafles. She had been almost a month ill before I first faw her; when the was fent from town to Hampstead, for change of air. She had been let blood once, but sparingly; but as she had been ill fo long, and I found her fo much weakened,

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weakened, I durst not venture to repeat it, though I was forry afterwards I did not; because on opening her body, I found the lungs, especially in the back and lower part, had been a good deal inflamed, but without any appearance of fuppuration, or mortification. She was only fix days under my care; for the weather happening to be very cold at that time, with a bleak north-east wind, to which her lodgings were much exposed, and finding her grow weaker every day, I advised the parents to take her back to

to town, where she died within two or three days afterwards.

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I had lately an opportunity of trying both the antimonial mixture by way of puke, and vomits compounded of the ipecacuan wine and oxymel of fquills, in a boy about eight years old, who was ill of the Hooping-Cough: and it plainly appeared to every body about him, that though the latter cleansed the stomach very well of the phlegm, yet it had not fo good an effect upon the Cough as the former, neither did he

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he perspire so plentifully aster it.

Both kinds were repeated feveral times, and the event was always in favour of the antimonial vomit.

After all, the Hooping-Cough is a very obftinate complaint, and even the change of air, fo much celebrated in this difeafe, though in fome patients it feems to have a remarkable good effect, yet to others it affords no fenfible relief.

The RICKETS makes it first appearance in childhood; but the effects

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effects of it often continue through life. Though it lays the foundation of various complaints and deformities, yet not many die of it, and therefore it cannot be reckoned amongst the fatal diseases of infants. Indeed the air where I live, being fo very dry, I have feldom met with it unless amongst nurse children, that have been sent out of London with it upon them . and when I have, a few gentle doses of rhubarb, keeping the child dry and clean, and rubbing it carefully all over, two or three times a day, together with the cold bath, have generally removed it in a short time.

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The last difease I have to take notice of, is the SCROFULA, or KING's EVIL, which I believe, for the most part, begins first to appear in childhood, but not always. Like the Rickets, it fometimes proves a fource of bad health through life, but is not very often fatal to children. It is generally fupposed that the pancreas and mefenteric glands are commonly the first affected in this distemper; whence proceed indigeftion, and pains of the belly, attended with a fwelling and hardness, before the disease makes its appearance outwardly. Hence whatever is of YH. fer-

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fervice to cleanse the primæ viæ, must be beneficial here, especially in the beginning; and to answer this intention, I should expect more from the solution above recommended, than from any other medicine I know. But as I have not had sufficient opportunities of trying it in strumous cases, I shall not indulge myself in conjectures concerning its efficacy in diforders of this kind.

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To be observed in the NURSING OF CHILDREN: With a particular View to those who are brought up by Hand.

THOUGH I am no advocate for bringing children up by hand, as it is called, when they can be properly fuckled; yet as fome mothers for want of health, or fufficient vigour of conftitution, are not able to fuckle their infants themfelves, nor willing to commit them to other hands for that purpofe: As there are fome whofe H 2 nipples

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nipples are too small, or perhaps so ill-formed, that the child cannot lay hold of them; and fome whole fituation in life will not allow them to perform this duty : not to mention, befides, that there are infants who will not take the breaft: I thought it might not be impertinent to offer a few directions about dry-nurfing; for which I reckon myself the better qualified, that I have had fome experience of it in my own family.

But though, as I just now obferved, I do not advise dry nursing of infants, when they can be properly suckled, yet I would not have 6 parents

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parents to be discouraged from trying it when it becomes requifite, being firmly perfuaded, that if a child is born pretty ftrong and healthy, it had better be brought up by hand in the method to be afterwards explained, than fuckled by an ailing nurse, or one that has not a fufficient quantity of milk. For when I talk of a child's being properly fuckled, I mean by a nurfe who is healthy, fober, good tempered, cleanly, careful, and has plenty of good milk. A wet nurfe ought likewife to have pretty ftrong nerves; for if they are weak, the least surprize has a bad effect upon the H 3 TUNE

the milk; or if the child happens to be fuddenly taken ill, from the fright and anxiety, the milk is fometimes quickly dried up, when perhaps the poor infant has the most occasion for it. For this reason fome mothers, who are very fond of their children, make but bad wet nurfes, though well enough qualified for it in other respects.

Again, though the child may keep well and thriving, the nurfe may be taken ill, in which cafe the infant of courfe must fuffer, and probably catches the distemper, if the disease is infectious; at least it must

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must be suddenly weaned, perhaps when it is about teething, which may have fatal effects,

or near great cities, where fo many

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In this cafe you will fay, another nurse must be found. But if it is the mother that fuckles the child, she will be loth to part with it; and you must not be too positive with her, nor tell her the danger she and the child are in, for fear of shocking her, and thereby increasing the danger. Besides, you are not certain the child will take. to another breaft; for some of them begin very early to know their nurse, and will not be suckled by H₄ an-
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another, without great difficulty. Farther, a good wet nurfe is not always readily to be had, especially in or near great cities, where fo many of them are given to drinking and other vices, and the worft of them will fall upon means of procuring a good character from fome hand or other. And hence some parents, when the mother cannot fuckle the child herself, prefer the bringing it up by hand, rather than run the risk of getting a bad wet nurse. Again, if it should not be the mother, but a wet nurse that suckles the child, and is taken ill, the infant must still be weaned, and the wean-

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weaning will be attended with the inconveniencies just now mentioned.

Every mother whose health and strength will permit, and who has good nipples, ought, for her own fake, to fuckle her infant during the first few weeks, in order to prevent the milk-fever, inflammations and suppurations of the breasts; the first of which is dangerous, and the two last very painful, tedious and disagreeable. For after the lacteal tubes have been repeatedly emptied by fucking, the milk may be dried up with more ease and safety. Befides, the fuckling may agree better

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ter with the mother than fhe expected; and finding this to be the cafe, fhe may be encouraged to continue it. It is true that women who fuckle, upon catching cold in their lying-in, or committing fome trefpafs in diet or the like, are fometimes fubject to the complaints abovementioned, but they are not near fo liable to the milk-fever at leaft as thefe who do not.

There are two ways of feeding children who are bred up by the hand; the one is by means of a horn, and the other is with a boat or fpoon. They both have their advo-

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advocates, but the latter, in my humble opinion, is preferable.

The horn made use of for fuckling, is a small polished cow's horn, which will hold about a gill and a half. The small end of it is perforated, and has a notch round it to which are fastened two small bits of parchment, shaped like the tip of the finger of a glove, and fewed together in fuch a manner, as that the food poured into the horn can be fucked through between the ftitches. This appears to be a very fimple and ingenious contrivance, and is admired by fome, who look upon

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upon it as a kind of artificial nipple; and it might very well be confidered as fuch, if we had but the breast-milk to convey through it. Or if we could discover any food of the fame thinnefs with the milk, and as nourishing as it is, the horn might still answer. But as a discovery of this kind is not to be expected, and the food which the child fucks through this artificial nipple must be thin, in order to pass between the stitches, there requires a larger quantity of it to nourish the child, and hence its stomach and bowels are too much relaxed, whereby it is in danger of falling into the watery gripes, as was the cafe

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cafe with two of mine, which were fed for fome time in that way.

The first was fuckled by her mother for feven weeks, or thereabouts, at which time the milk dried up so much, that it was found neceffary to wean her. During the time that she sucked, she was fed in the night with the horn, and afterwards with it alone, till she was seven or eight months old. But though the fucked her food very well through it, yet it did not feem to fatisfy her, which made her often fretful. She was frequently griped, much troubled with wind, almost always loose in her body,

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body, and made a great quantity of urine.

Afterwards, when the horn came to be left off, and the was fed with the boat, and with thicker victuals, the child became more quiet and thriving every day.

The next had been fuckled four weeks, when her mother, by catching cold, was feized with a violent cough, and entirely loft her appetite, for which reafons it was thought proper to wean the child, and fhe was fed with the horn, in the fame manner as the other, which

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which had the fame effect, of making her much afflicted with wind, and loofe in her body. At last she was taken ill of the watery gripes, which had almost killed her. However, by changing her diet, feeding her with the boat, the use of proper medicines, and the affes milk, she at last recovered, and became very thriving likewise.

The horn having fucceeded fo ill, I made no farther trial of it, and the laft child I had was fed with the boat. She likewife was fuckled almost four weeks, when her mother was again feized with a violent cough, and as she was no

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not willing to have a wet nurfe got for the child, I determined to wean her. But previous to that her food was made thicker, which made her lefs fond of the breaft, and as fhe fed very hearty, fhe never once hankered after it.

Though this was not a flronger child born than her fifters, yet fhe was always more healthy and thriving while an infant, and never had the leaft tendency to a loofenefs, which I cannot help imputing, at leaft in part, to her having been fed in a different manner.

Having

Having given my opinion in preferring the boat or fpoon to the horn in the feeding of children, who are brought up by the hand,

I come next to mention the food which I take to be the fittest for them, and the proper times for feeding them.

With regard to the first. While the child is fuckled, I think the best food is crumb of bread boiled in soft water, to the confistence of what is commonly called pap, or a thin panada. The bread should not be new baked, and, in general, I think I roll

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roll is preferable to loaf bread; becaufe the former is commonly baked with yeft, whereas the latter is faid to have allum fometimes mixed with it. But whether it has or not, of this I am certain, that the loaf bread in and near London, grows very foon ftale, and fo hard, that in a few days after it has been baked, it becomes not eatable.

This pap should be sweetened with fost, or Lisbon sugar, unless the child is of a lax habit of body, in which case the finest loaf sugar should be used; and in this 2 case

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cafe too, the pap should be made with biscuit, instead of roll. It should not be made sweeter than new milk; for too much sugar both palls the appetite, and grows four upon their stomachs.

Before the child is weaned, the victuals should be made thicker, by which means it will become less fond of the breast, and consequently, as was mentioned above, easier to wean.

If the infant is to be bred up by hand from the birth, it ought to have new cow's milk mixed with I 2 its

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its victuals as often as poffible, and now and then fome of it alone to drink. Affes milk will be ftill better, when it can be conveniently had, and the parents can afford it.

If the child (whether it is fuckled at first, or not) is much troubled with wind, boil a few juniper berries, bruised, or a little ginger, grated, and tied up in a rag, in its pap, and between whiles, give a pap spoonful, or so, of weak pepper-mint water, or sweet sennelwater. This will be still more proper if the child is of a loose habit (117)

habit of body. But if it is coftive, it must be kept open with a little manna, or magnesia, mixed with its food from time to time, as occasion requires.

1, OF Decl

After it is weaned, efpecially after it comes to be used to thick victuals, it should have now and then, by way of drink, between the times of feeding, water in which a piece of upper crust of bread has been boiled, mixed with an equal quantity of new milk when it can be had; or when this cannot be had, of boiled milk, fweetened with a very little fugar.

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When the child comes to be about three or four months old, if the milk victuals be apt to grow four upon its ftomach, it will be right to ufe weak broth, either of chicken, veal, or mutton, or beef tea as it is called, inftead of milk, in its food, or at leaft it may be fed with this once or twice a day.

About the age of fix months, if the child is cool, and not inclined to be fat, you may begin to give it at noon, once in two or three days, a very little bit of the white of the wing of a boiled chicken, minced very fmall, and mixed

by way of drink, buween

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mixed up into a kind of pap, with fome of the broth that the chicken was boiled in, and a good deal of crumb of bread. But when it is at any time inclined to be feverifh, it muft have nothing of this kind.

At this age too, you may begin to give it a little plain light bread pudding, now and then, for dinner.

About the fame age, or rather before, that is, as foon as the child can hold any thing in its hand, the nurfe fhould every morn-I 4 ing

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ing give it a piece of the upper crust of a loaf, cut in the shape, and about the fize of a large Savoy biscuit, one end of it dipped in its food, or a little milk, and put into its mouth, and the other to be held in its hand. The child will lay and divert itself with this, gnaw and swallow it by degrees, which will not only help to nourish it, but bring a greater quantity of faliva into the mouth, whereby the gums will be foftened, and at the fame time, by the gentle and repeated friction, the cutting of the teeth will be greatly promoted.

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The victuals should be made fresh twice a day, that is, morning and evening, in winter; and three times in summer, especially in hot weather and the milk must never

times in fummer, especially in hot weather, and the milk must never be boiled with the pap, but by itself, and added to the pap every time the child is fed; otherwise it will curdle, and grow sour on the child's stomach. It can hardly be necessary to mention, that when new milk is made use of, it must not be boiled at all.

As to the times of feeding infants. While they are very young, there can be no regular times fixed;

ed; but the few following general rules may be of fervice. During the first few weeks that the child fucks, when it is not brought up by hand from the birth, if the mother has a good deal of milk, the infant will require very little feeding; and that chiefly in the night, in case it should be wakeful; that the mother's rest may not be broke by fuckling it. But when it comes to be weaned, it must be fed chiefly in the day-time, and put into the habit of fleeping during the night as foon as poffible. At first it should be fed frequently, and 2 3 3 3

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and only a little at a time; for cramming can never be of fervice, but hurtful. I wish nurses would observe this more than they commonly do, and make it a general rule, never to force victuals down a child's throat when it refuses them. I have very often observed nurses guilty of this error, and told them the absurdity of it, sometimes to little purpose. But still it is a circumstance very well worth minding, otherwise both the appetite and digestion of the child may in time be much hurt, by the stomach's being repeatedly overcharged.

After

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After a child has fasted for a good while, or has had a long fleep, it is right to offer it food, and if it is hungry, there is no fort of question but it will take it; the only thing to be remembered in this case, is not to give it too much. If it refuses to feed, by no means urge it, but amuse and give it exercise, till the appetite returns.

If the infant is not fuckled at all, it must be used from the birth to feed chiefly in the day, fo that its sleep may not be disturbed in the night.

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The following method will greatly contribute towards a child's resting in the night, and though it may appear strange at first to persons who never heard of it before, yet as I have seen it practifed with fuccess, I can therefore recommend it. And that is, for the nurse, the last thing she does before she goes to bed, about ten or eleven o'clock, to take up the child, open it before the fire, turn it dry, and feed it, even if it is asleep. I have seen, oftener than once, a child taken up in a found sleep, eat a hearty mess of victuals, and afterwards break wind two or three

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three times, then put into bed again without opening its eyes. The mouth was opened readily enough whenever the boat was put to its lips, till the appetite was fatisfied, and no longer. I fancy most children might be foon brought to this by not feeding them from fix or feven o'clock in the evening, till the above-mentioned time; and the method here advised is attended with this great advantage, that if they are fed about this time, they feldom want any thing till about five, fix, or sometimes seven o'clock in the morning.

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As to cloathing. They fhould have nothing tight about them, and as few pins as poffible fhould be ufed. They ought to be kept rather warm, efpecially in cold weather, for the first three or four months; because till they arrive at that age, they easily catch cold, which either makes them feverish, or throws them into convulsions or the watery-gripes.

On this account too, nurfes ought to be very careful to keep the infants dry; for by foaking long in wet cloaths, they are very apt to catch cold; and befides it is very

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very weakening and unwholefome in every respect.

For this reafon alfo, whenever the child is turned dry, the cloths which are put to it fhould be very well dried and aired. I am afraid this circumstance is not always fufficiently attended to, though it is certainly a very material one; as every body knows the pernicious effects of putting on damp linen, or laying in ill-aired sheets.

These directions ought to be still more carefully attended to whenever the child happens to be loose in

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in its body; in which cafe the clouts, as foon as they are taken off, ought to be put away at a diftance from the child; or, if the ftools are very fetid, quite out of the room; as being not only offenfive, but unwholefome to the infant.

But though I would by all means advife the keeping of infants as dry and clean as poffible, through the day, yet I think it better not to open them in the night, if it can be avoided, for fear of giving them cold, and difturbing their reft. In cafe of a purging, it be-K comes

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comes neceffary to open them, in order to turn them dry, in the night, as well as the day; but then there ought to be a fire kept in the room all night.

If the obfervation holds good, that very few children belonging to people of fortune die in their infancy, I imagine it must be owing to their having more convenient nurferies, and greater care taken of them in the above-mentioned respects; the extraordinary encouragement given to the nurfes making it their interest to give the children diligent attendance.

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The keeping of infants warm, fo as to preferve them from catching cold during the few first months, is of fo much confequence with regard to their future health and thriving, that the greatest care should be taken in this point. And this makes me imagine that, if the Foundling hospital were to be made a kind of nurfery for children till they came to be four or five months old (it would be still better if they could be kept in till the age of nine or twelve months) more lives might be faved by that institution, than perhaps there are at present. For to send new-born K 2 infants

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infants to fuch cold houfes, as the nurfes in the country that take in fuch children, generally live in, unlefs the nurfes are extremely careful indeed, is for the most part fending them to an untimely grave; especially if the place be fituated at any confiderable distance, and the weather happen to be cold.

In the hospital they would not only have warmer apartments, but the nurses, being under the immediate inspection of proper matrons, would be obliged to be more careful of their charge; and when the children came to be nine months, or

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or a year old, that is, paft the age when they commonly leave off clouts, they might be fent into the country at much lefs hazard of their lives; both from their having more ftrength to bear the cold they may be expofed to, and likewife from their being lefs liable to fuffer from the careleffnefs of the nurfes in neglecting to keep them dry.

Confidering how well the Foundling Hofpital is fituated, the abovementioned advantages might, in my humble opinion, do more than compenfate the dif-K 3 ference

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ference of the air between that and the country.

But all this, by the by. I come next to confider the article of fleep.

Every body knows, that the younger children are, provided they are well, the more they are inclined to fleep. The infant having lain fo long dormant in its mother's womb, it requires a good while after it is born, for the habit to wear off; and, in general, the more it fleeps at first, the better, if it is but a right fleep, and not the

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the inward fits, defcribed in the above Effay. But as in order to prevent thefe, it ought to be dandled and patted, to make it break wind always after fucking or feeding, fo this exercife ought to be continued longer at a time, and more frequently repeated; to roufe the child by degrees, out of this fleepy habit, efpecially after you begin to ufe it to thick victuals.

Some infants are more wakeful in the night, than in the day, which is hurtful to themfelves, and irkfome to those about them; and K 4 therefore

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therefore they ought to be broke of it as foon as poffible. The fafest and most natural way of attaining this end, is by keeping them awake as much as you can throughout the day, and feeding them pretty plentifully about ten or eleven at night. As to opiates, in this cafe, I reckon them very pernicious, though I am afraid some careless nurses use too much freedom with them, by giving them to children in the day as well as the night, in order to keep them quiet, and prevent their disturbing them in their business.

KA.

I believe

I believe it may be taken for granted, that children who are used to a cradle in the day, are the more subject to be wakeful in the night; which is one reason why I would prefer the bed to the cradle for infants. The rocking of the cradle, together with the nurse's drowfy fong, difposes them indeed to fleep, but then they fometimes get into fuch a habit, that it is with great difficulty they can be made to fleep without those aids. Befides, as most children, when they are well, can be lulled to fleep almost at any time by the motion of the cradle and finging, some nurfes

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nurses are apt to take the advantage of this, and studying their own ease more than the health of the infant, they lay it down to fleep immediately after feeding, instead of diverting and giving it exercise as much as poffible in the day, both to help to digeft its food, and to make it rest the better at night. For when I faid, the more an infant fleeps, the better, provided it is but a right sleep, I meant only during the first few weeks, till it gathers strength to bear a little proper exercife. Add to all this, I do not think they are laid fo warm and comfortable, nor so much at their eafe,

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eafe, in a cradle, as in a bed; and the rocking of the former is apt to gather a good deal of wind, which in cold weather must fometimes be hurtful to the infant.

If you intend not to make use of the cradle, the child ought not to be jolted on the knee or lap, which is frequently practifed by nurses who attend lying-in women, when their young charge happens to be at any time reftles.

This naturally leads me to the fubject of exercise, which is the next next thing I shall confider in the nursing of children.

Infants, however thriving they may be, for the first few months after they are born have not ftrength to use any exercise themselves, except that of crying, when they are hungry or in pain, and kicking and pulling up their feet when they are griped; both which must be looked upon rather as symptoms of distress, than falutary exercises, Upon their nurses, therefore, they must depend at first, for proper exercise; and next to fuckling or feeding them, and keeping them SKOR dry

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dry and clean, as has already been directed, there is nothing fo conducive to their thriving as this.

The first exercise I shall mention proper for infants, is dandling, which is certainly of fervice to divert them, and keep them awake; but then it should be done very gently for a good while at first, and never with a jerk. Neither should they be hoisted up high in the air between the hands, as fome people heedlessly do; for they begin very early to be susceptible of fear, much sooner than persons not accustomed to them would imagine.

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imagine. It is true they may be brought to bear pretty hearty shaking, fwinging, and even jolting, by degrees; and all this is of fervice, when they have ftrength to undergo it; nay, when the child bears it well, we reckon it a good fign that it is thriving, and has been well nursed; but it should be done very gradually, and not attempted too foon. I have seen an infant almost thrown into fits, from a sudden fwing given to it by one not used to young children. And how often do we see them start violently, and fall a crying, if there happen to be any sharp sudden noise made

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made near them; in confequence of the weaknefs and fenfibility of their nerves.

But the most useful exercise for very young infants, is rubbing with the hand; which cannot be too often repeated, nor continued too long at a time. They should be well rubbed all over, before the fire, twice a day at least, that is, morning and evening, when they are dreffed and undreffed; and the rubbing should be repeated from the loins downwards, every time they are turned dry, unlefs they have a purging, when it might

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might fatigue them too much to have it done so often. There is nothing that infants in general feem more delighted with than this exercise, and it were to be wished, that the nurses would indulge them more in it. It will frequently make them quiet when nothing elfe will; and it is not only very pleafing to them, but conduces greatly to make them thrive, and to prevent their catching cold, by promoting a free circulation and perspiration likewise : Providence having kindly connected the agreeable sensation and the benefit.

Another

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Another good preservative against their catching cold is, for the nurfe, every morning when the dreffes the child, having first of all well rubbed it, to wash its back, loins, groins, and between its thighs, as also its limbs all over, with cold water, and afterwards to dry them carefully. The head and behind the ears, the neck, arms and hands, should be washed in the fame manner and dried. If the observes that the skin seems any where to be chafed, after dabbling the part very well with cold water, and drying it gently with a fine cloth, let her apply fome common powder to it, by means of a soft L puff.

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puff. But if much galled, from the heat and sharpness of the urine, which will fometimes happen about the time of teething, especially to fat children, she must take some fuller's earth, diffolved in a fufficient quantity of hot water; let it ftand till it is cold, and rub it gently upon the parts galled, once or twice a day. It is a very common thing to make use of ceruss in this case; but as lead, in whatever shape you use it, is allowed to be hurtful to the nerves, and the other answers the purpose altogether as well, without any danger attending it, I would therefore prefer it.

In

In most infants, sooner or later, there is a discharge from behind the ears, which at first oozes out in the form of fweat, or a very thin lymph, and afterwards increases in quantity, becomes of a thicker confistence, and fometimes very acrid, fo as to gall the neighbouring parts, and be very troublefome, especially at the time of teething.

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When this discharge is moderate, it should rather be encouraged than checked; and it will be fufficient for the nurse, every morning, to wash and clean the part well with cold water, and afterwards to rub it

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it pretty hard with a dry cloth. But if the difcharge is too plentiful, a bit of finged linen rag, fuch as the nurfes commonly use for this purpose, will be sufficient to restrain it; for I do not think it safe to dry it up, or even to check it too hastily.

These are the most material rules that occur to me to be obferved in dry-nursing: and it is obvious that most of them are equally applicable to the management of children upon the breast.

Diffe, and he yerv trouble.

FINIS.

walls and clean the part well with

ne mulic, every morning, to



