

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].

Contributors

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D I S E A S E S
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.

By GEORGE ARMSTRONG, M. D.

The Second Edition, with Additions.

L O N D O N :

Printed for T. CADELL, in the Strand.
MDCCLXXI.



AN
ESSAY
ON THE
DISEASES

Most Fatal to INFANTS.

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TO
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,

London, East Street,
Red Lion Square,
Holborn, 1771.

GEORGE ARMSTRONG.

STATEMENTS

SIR JOHN PRINGLE, BARONET,

PHYSICIAN TO HER MAJESTY,

THIS ESSAY IS DEDICATED,

TO THE RIGHT HONOURABLE

AS A TESTIMONY OF THE

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SINCEREST ESTEEM AND GRATITUDE,

WITH WHICH HE IS

BY HIS MOST OBLIGED

AND AFFECTIONATE

SERVANT,

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O N T H E
D I S E A S E S
Most fatal to I N F A N T S.

I F we take a survey of the different provinces of medicine, we shall readily discover, that one which happens to be of the greatest consequence to society, as the population of every country in a
B great

great measure depends upon it, I mean that which regards the diseases 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 preserved 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,

dicine, has commonly been left to old women, nurses, and midwives, so that it has been long a common saying in this country, that the best doctor for a child, is an old woman.

This I do not mention by way of reflection on the authors who have written upon this subject, some of whom are very eminent, such as *Harris, Astruc, Brouzet, Boerhaave, Van Swieten* and *Hoffman*, not forgetting the great *Sydenham*, in many parts of his works; but that I may invite others to endeavour after farther

improvements in a field which still stands in need of cultivation. As a proof that this subject has not hitherto been exhausted, the most common complaint, incident to infants, as will appear afterwards, viz. *inward fits*, is not once mentioned in any of the above-named authors, nor in any other that I have perused.

I know there are some of the phsyical tribe who are not fond of practising amongst infants; and I make no scruple to own, that I was of that number myself till within these five or six years,
that

that I may venture to say I have discovered a more successful method of treating their complaints.

The most plausible excuse for declining to practise amongst infants is, that they are not capable of telling their ailments ; and therefore, say some, it is working in the dark, and while you endeavour to relieve them, perhaps you may do them a mischief, instead of any service. But let me ask, when a person is delirious in a fever, for instance, how is the physician to come at the knowledge

B 3

of

of his case? 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 the Apoplexy, when the patient is struck senseless and speechless all at once, and so remains till by proper means his senses and speech are restored, he can give no information about his illness; and if the physician were to wait for the recovery of his speech before

fore he attempted to give him relief, he would probably lose him; or in case the patient should recover, he would have no great reason to thank his physician. Many other instances might be adduced where the patient can give no satisfactory account of his complaints.

But though infants are not capable of expressing their complaints by words, the very symptoms themselves will, for the most part, speak for them, in so plain a manner as to be easily understood. Thus, for example, if an infant

is seized with a violent vomiting and purging, to which they are very subject, is not the disease as evident in them as in grown persons? Or if there is no purging, but on the contrary a costive disposition, do not even the nurses about them know, by the tension and heat of the stomach and bowels, the violent screaming, and drawing up the feet to the hips, that they have got the dry belly-ach, as it is called, or, in other words, an obstruction of the bowels? If a child happens to have a Fever, the increased heat of the body, the fulness and quickness of
the

the pulse, together with the whiteness of the tongue, restlessness, &c. are sufficient indications of the disorder it labours under.

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 assistance till it is too late.

Further, if infants are to be deprived of the benefit of medicine, because they are not capable of expressing their complaints by words,

words, they will rarely have the advantage of it till they are five or six 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 say, Yes. If he has a pain in the stomach, Yes. And if you ask him twenty such questions, he will probably answer in the affirmative; whilst perhaps he has no pain any where. It may possibly be sickness that he takes for pain, not yet knowing the proper distinction
between

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 say, 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 speechless infant; and if you have no other resource, you must still remain in the dark. But we must not suffer our helpless offspring to languish and die
because

because they cannot, or perhaps will not, tell us their ailments. On the contrary, we ought to be the more assiduous 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.

But if we will only give ourselves the trouble of examining this subject attentively; we shall soon be convinced, that though a great part of the human species dies in infancy or childhood; and though many of them are cut off
by

by diseases peculiar to infancy, such for example as arise from teething; yet their disorders are not so numerous, nor so hard to be accounted for, as one unacquainted with the subject would at first sight imagine.

In the first place, as to their number. They are not subject to that multitude, either of acute or chronical distempers, which many grown persons bring upon themselves by intemperance, and others have unfortunately brought upon them by hard labour, violent exercise, and the inclemency of the
wea-

weather; being exposed to heats, cold, damps, &c. They do not suffer from care, or misfortunes in life, which kill many thousands; by bringing on fevers, low spirits, and all sorts of nervous disorders. Few of the hereditary diseases appear in infancy, or even in childhood; such as the gout, the consumption, the palsy. 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 disorder that infants and children are subject to, which adults

are

are exempted from. For as to convulsions, 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 so much) the watery-gripes being only another name for a violent *Diarrhæa*.

Their distempers are not only much fewer in number, than those of grown persons; but I hope from what follows it will evidently appear, that they are more easily accounted for, than perhaps is generally imagined; almost all of them arising from one common cause;

cause; and if treated in a proper manner, are more easily cured.

It is known from anatomy, that the glands in general, and consequently the glandular secretions, 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 slimy contents, (for the bile appears more slimy in infants than in grown persons) which unless properly evacuated, load their tender bowels, and occasion most of the

com-

complaints to which infancy is subject. For as they cannot of themselves 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 viscidities, 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 species die in their infancy, than of the young of other animals, even reckoning for the first two or three

C months

months only. Some of them, such as puppies, kittens, and rabbits, soon 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

to them. The symptoms are these. The child appears as if it was asleep, only the eyelids are not quite 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 something like a simper or a smile, and sometimes almost the appearance of a laugh. As the disorder increases, the infant's breath seems now and then to stop for a little; the nose becomes pinched, there is a pale circle about the eyes and mouth, which some-

times changes to livid, and comes and goes by turns; the child starts, especially if you go to stir it, tho' never so gently, or if you make any noise near it. Thus disturbed, it sighs, 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 seems as if falling into convulsions; but a violent burst of wind from the stomach, or vomiting, or a loud fit of crying, sets all to rights again. As the child increases in strength, these fits are the more apt to go off spontaneously, and by degrees; but

but in case they do not, and if there is nothing done to remove them, they either degenerate into an almost constant droufinefs, (which is fucceeded by a fever and the thrush) or elfe they terminate in vomitings, fcur, curdled, or green stools, the watery-gripes, and convulfions. The thrush indeed very often terminates in thefe laft fymptoms. Wherefore as thefe complaints naturally run into one another, or fucceed each other, they may be confidered, in a manner, as only different ftages of the fame difeafe, and which derive their origin from the fame caufe.

Thus, the inward fits may be looked upon as the first stage of the disorder; the fever, and thrush (when it happens) as the second; the vomitings, sour, curdled, green, or watery stools, as the third; and convulsions, as the last.

As to the cause of these complaints, I observed before, that in infants the glandular secretions, which are all more or less glutinous, are much more copious, than in adults. During the time of sucking, the glands of the mouth and *fauces*, being squeezed by the contraction of the muscles,

spew

spew out their contents plentifully, which afterwards mixing with the mucus of the gullet and stomach, render the milk of a slimy consistence, by which means it is not so readily 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 sickness and spasms; which being communicated by sympathy to the nerves of the gullet and *fauces*, produce the convulsive motions above described, which go commonly by the name of inward fits. The air, likewise, which is drawn in during

C 4

suction,

suction, 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 causes now assigned, that they always appear immediately after sucking, or feeding; especially if the child has been long at the breast, or fed heartily, and has been laid down to sleep 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 so soon as belching, or vomiting; and the
milk

milk or food they throw up, is generally either curdled, or mixed with a large quantity of heavy phlegm. In case they are not relieved by belching or vomiting, the fits sometimes continue a good while, and gradually abate, according as the contents of the stomach are pushed into the intestines; and as soon as the former is pretty well emptied, the child is waked by hunger, cries, and wants the breast; he sucks, and the same process is repeated. Thus, some children for the first weeks are kept almost always in a doze, or seemingly so, especially if the nurses, either thro' laziness

laziness or want of skill, do not take care to rouse them when they perceive that it is not a right sleep, and keep them awake at proper intervals. This dozing is reckoned a bad sign 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 disorder.

The THRUSH in infants, generally appears first upon the tongue,
and

and the back part of the roof of the mouth, in the form of small white specks or floughs, which increafing in size and number, run together, and compofe a fuperficial white cruft, lining the whole furface of the mouth, from the lips to the *Oefophagus*, and from thence is fometimes continued quite through the ftomach and intefstinal canal to the *Anus*; at leaft it makes its appearance very plainly in this part. Sometimes, when this white cruft falls off, it is fucceeded by another, which is thicker, and not fo white, and this by a third, or a fourth, if
the

the disease has been neglected, or if the humours are very sharp. The oftner the crust is renewed, the worse it becomes, and acquires more of a yellow or brownish cast. It is commonly attended with a fever, and a great 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 soon after the birth, and before there has been any disorder in the bowels. As to the black thrush, so often mentioned by authors

thors who have written on this distemper, I do not remember to have seen it in infants; and as I have been daily employed amongst them for several years past, I imagine it must rarely occur, otherwise I must have met with it. Indeed the air of the place where I have chiefly practised 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 symptom. In a child that I attended, of four years old, who died of a putrid fever, there was several days before its death, a black flough on the

5

tongue,

tongue, especially towards the root, and several little angry ulcers here and there, on the inside of the lips and cheeks, which perhaps was that which some people call the black thrush. But this was the youngest patient whom I ever observed to have it, and it seemed to be a consequence of the fever, and the putrid state of the humours, not the original disease.

If the thrush is not stopt, the contents of the stomach and bowels, becoming still more acrid, produce vomitings, sour, curdled, slimy, or green stools, the

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 such as are liable to inward fits, without vomiting. But when this symptom becomes violent, and the stools are sour, curdled, slimy, or green, it is full time to administer speedy relief, otherwise the watery-gripes are threatened, which, for the most

part, soon terminate in convulsions and death.

Though these complaints often succeed 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, without the watery-gripes, and some the watery-gripes without having the thrush. Sometimes too, the watery-gripes come suddenly upon them, without any pre-

previous disorder, owing either to the nurse's, or to the child's, having caught a violent cold, to some fault in the nurse's diet, to the constitution of the air at the time, or the striking in of a rash.

The disease has been called the **WATERY-GRIPES**, from the stools being as thin as water, attended with violent gripes. Sometimes they are colourless, sometimes mixed with little streaks of blood, and sometimes of a brownish cast, like a kind of putrid *sanies*, of a very strong and offensive smell, but always very thin.

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As to the CONVULSIONS, in which most of the diseases of children terminate before they die, they are so well known to every body, that it would be needless to describe them. I take them in general to be owing to a *stimulus* communicated 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 is primarily affected. Hence, except in this last case, they are to be considered, properly speaking, as a symptom, not as a disease. Convulsions, for the most part,
close

close the scene in adults, as well as in infants; but because they die convulsed, we do not therefore say that they die of convulsions, though this is constantly said with regard to children, merely through the ignorance of the persons about them, who do not know what other name to give to the disease. Hence in the weekly bills of mortality, convulsions are always said to sweep off great numbers of children. But it is necessary to distinguish 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 the causes of those disorders, 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 said before, that as far as I had observed, most, if not all infants, are more or less subject to them from their birth; and this disposition continues till they come to be about three months old. As they are com-
mon

mon 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 something worse, which by removing them in time might of course be prevented, and thereby the lives of many infants saved. 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 upwards or downwards, two or three times; the

oftner the better. For this purpose, inftead of laying it down on the bed, or cradle, let the nurse hold it ftoping 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 thefe means fhould not fucceed, I would recommend a gentle puke, to be repeated from time to time, as occafion requires. I am fully convinced from the practice which I have had amongst children, that if fuch a puke were given to infants foon after they are born, inftead of a purge, and repeated
 occa-

occasionally, it would be of much more service, and fatigue them a great deal less. Nay, if they are apt to be sick, which very often happens, and is easily known by their frequent vomiting or retching, or change of colour, turning commonly pale or wan when the stomach is sick, 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 cleanses the 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 case the first has not operated. After the first month, you may give seven, eight, nine, or ten drops, according to the child's strength, or the urgency of the case,

case, and at three or four months old, from ten to fifteen. But I always begin with a small dose; for children differ full as much in that respect as grown persons, some of them being much easier vomited than others. Besides twenty drops will very often vomit a child of three or four years old, that has not been accustomed to this medicine: but if there is occasion to repeat it soon afterwards, the quantity must be increased.

Though this has the character of being a rough medicine, which
perhaps

perhaps may make some afraid to give it to those tender patients, I can assure them I have given it to a great many children at different ages, some of them, as has just been observed, very young, and to the same 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 constantly to be observed in administering vomits to infants, as well as adults; that is, never to give them when the patient is constive, without first opening the
body

body by means of a gentle purge, or glyster. The not attending to this precaution, has brought an imputation upon emetics, when the fault only lay in neglecting this rule.

Next to the above method, there is nothing that contributes more to make infants, during the first months, thriving and healthy, than preserving 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

to the management of children, would be surpris'd to see how soon they delight in this exercise, and how strongly they express the comfort it gives them.

In case the above directions are observed; that is to say, provided the child be never laid down to sleep, after it has been suckled or fed, till it breaks wind upwards or downwards, two or three times; and if that cannot be procured by the easy means above directed, a gentle puke be given, of the antimonial wine, above recommended; if it is preserved from
catching

catching cold, kept as dry as possible, 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 subject to rashes, and is suckled by a healthy nurse, careful of her diet; or if the child is brought up by the hand with proper nourishment; we need not be much afraid either of the Thrush, green stools, the watery-gripes, or even of Convulsions, except the idiopathic, till the time of teething.

With

With regard to the cure of the THRUSH, of whatever kind it be, and at what time soever it happens; as it appears to be chiefly owing to a foulness of the stomach and bowels, attended for the most part with more or less of a fever, and always makes its first appearance in the mouth, proceeding gradually downwards; the most rational method to me seemed, first to empty the stomach, and then the intestines; for by these means the first passages being freed of their acrid contents, I imagined that the fever would subside of course; and indeed I have very rarely

rarely been disappointed in my expectations here. For this intention I have observed nothing to succeed better than the antimonial wine just mentioned, given as a puke, more or less, according to the strength of the patient; and repeated as the exigency of the case required.

If the child is costive, a glyster, or two or three grains of the *pulvis jalapii*, rubbed with a double quantity of sugar, will be necessary to be given first, and this must likewise be repeated occasionally.

As

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

lows

lows 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 so generally useful in collyriums, and of so cleansing a nature, made me first try it in a gargle, and I have found it succeed so well both in infants and adults, that I seldom use any other, except where the tongue is dry and parched. As it cleanses not only the mouth and throat, but likewise the stomach; this quality makes it doubly use-

E ful

ful to children, who have not sense to spit out whatever the mouth is washed with. By means of this gargle alone, I lately cured the worst canker in the mouth that I ever saw, in a boy of five years old. The tongue was covered with a thick white crust, like the thrush, and the inside of the cheeks and the gums were full of angry pustules, and little fungous excrescences, like warts. The saliva drivelled from him, as if he had been in a salivation; and his mouth and throat were so tender, that though he was very hungry, it was a difficult matter to force him

him to take any nourishment. As he was not feverish, and had no other complaint besides those I have mentioned, I ordered nothing for him but the gargle, and he got quite well in a very few days.

When a child is seized with a PURGING, whether the stools are sour, curdled, slimy, green, or watery, the common practice is, to give small doses of rhubarb, mixed with Gascoigne's powder, a little grated nutmeg, or the *pulvis e chelis cancrorum*; and some prefer *magnesia*, either alone, or

mixed with the *pulvis e chelis*, or the like, according as the stools are more or less loose. 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 some grown persons, is very griping, and therefore we ought to be particularly careful in observing whether it has not the same effect upon children. I look upon the *magnesia* as a safer medicine; but a better than either, as I am convinced, from repeated experience, is such a puke as was

abbo 2 3 E men-

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 slimy ones, to a load of acid phlegm in the *primæ viæ*, the readiest way of relieving the patient is, by carrying off that load as soon as possible. For if you endeavour, as most authors advise, by antacids and absorbents, first to correct the acrimony of the peccant matter, as they stifle it, before you attempt to expel it, when the case is urgent, as very often happens, it is

odds that you never have an opportunity to make use of evacuants. But by unloading the stomach 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 case the child has not strength sufficient to bear the puke to be repeated; for it often happens, that parents, as well as nurses, neglect to call in proper assistance in time, from the too prevalent notion, as I observed before,

before, that there is little or nothing to be done for infants; by which means they are sometimes almost in extremity, when we are first called to them. But if the child's strength will bear it, the best way is to repeat the antimonial wine every five or six hours, till the stools begin visibly to change for the better, and then every eight or ten hours, till they return to their natural colour and consistence. The emetic, operating upon the phlegm and bile, generally makes the child very sick at first, but when once that load is brought up, it seems presently

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relieved;

relieved; and it very seldom happens, that the repetition of the same dose ever makes it so sick again: wherefore the dose must be increased from time to time, if the symptoms do not abate to your wish. I have seen children so bad in the watery-gripes, that they seemed to be falling into convulsions, 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 assured would not have happened by the common method of treatment. Sometimes indeed, a child who happens to be uncommonly

monly strong, whose stomach and bowels, stimulated by their acrid contents, have emptied themselves pretty thoroughly, will then receive considerable 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 disease 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.

By

By means of the last mentioned antacid and absorbent medicines, together with astringents, given by the mouth, and likewise in the form of glysters, I have frequently seen the looseness checked for some time, but then the feverish symptoms have increased, and the purging returning with double violence, has quickly carried off the patient. But ever since I have practised this method of treating these complaints of the bowels by repeated pukes, I have seldom had occasion to give any thing else, except, when the child has been griped and restless after the first passages

passages were cleansed, a gentle
paregoric, such as a drachm of the
syr. papav. rhæados, in a large
spoonful of the fennel, or weak
cinnamon water; repeated every
three or four hours, till rest is
procured.

When the stools smelt very sour,
were curdled, or green, I have
lately given three or four drops of
the *Lixivium Tartari*, with the
emetic; and afterwards, between
whiles, the same quantity in a lit-
tle water, sweetened with sugar,
or syrup, with very good success.
When the milk is apt to curdle on
the

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

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

ways. Besides, whether by carrying off the acrid bile, or by some other power, they certainly contribute to abate the fever; which is a constant and dangerous attendant of these disorders, when violent; and I am afraid such tender patients would not bear bleeding.

The antimonial emetics (viz. the antimonial wine, or a very weak * solution of the emetic Tartar,

* Note. The solution I commonly use is, one grain of emetic Tartar, dissolved in three ounces of water, and sweetened with
a little

Tartar, which may be given as
safely as the other if properly
dosed)

a little syrup. Of this solution, a large
tea-spoonful contains one drachm by mea-
sure, or a ²⁴~~12~~th part of a grain of the Tar-
tar emetic; a middling tea-spoonful contains
two scruples of the solution, or an ³⁶~~18~~th
part of a grain of the Tartar; and a small
tea-spoonful, such as the poor people com-
monly use, contains half a drachm of the
solution, or a ⁴⁸~~24~~th part of a grain of the
Tartar. To very young infants I give a
small tea-spoonful; to one of a month or
six weeks old, a middling one; and to one
of two months, or so, a large one; and so
on, repeating it in the same manner as the
antimonial wine. Regard must likewise
be had to the strength as well as the age
of the infant.

N. B. The solution should not be kept
above three or four days, because by stand-
ing

dosed) have likewise this advantage, that, not being nauseous, they are easily swallowed, and stay longer upon the stomach 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 con-

ing longer, the Tartar separates from the menstruum, and sticks to the side of the phial, whereby the medicine is weakened. It is perhaps owing to a similar reason, that the antimonial wine is found to be uncertain in its operation: for if it is long kept, and the bottle is not shaken now and then, part of the crocus separates from the wine, whereby it is necessarily rendered weaker in its quality.

I

considerable

considerable effect. And this reminds me of a circumstance necessary to be mentioned, which is, that when the watery-gripes are attended with a vomiting, which is often the case, the puke should be given in small quantities, frequently repeated, till the stomach is well cleansed.

They are likewise endued with an anodyne quality, which makes them still more useful in many of the complaints incident to young infants; and every body knows they promote insensible perspiration, the obstruction of which is
a source

a source of a great many diseases. It is a common thing for a child to fall asleep after the operation of a puke of this kind, and the sleep thus procured is always refreshing, and never unkindly, or dangerous, as is that sometimes which is effected by opiates, though of the gentlest sort. For we meet with instances amongst grown persons themselves, where even gentle opiates have very disagreeable effects; and instead of inducing sleep, occasion restlessness and rambling, nay in some constitutions a total *pervigilium*.

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In this method I have, for upwards of five years, treated these complaints of children: and with such success, that I can freely recommend it to others. But at the same time, I am not so sanguine as to consider it as infallible, being certain that it sometimes must fail, in the same manner as does the bark in the cure of intermittents. I shall mention one case which I

* I have used the same medicine for several years past with no less success in continual fevers in children, as also in those of the remitting and intermitting kind; and have the pleasure to find that some eminent practitioners have adopted the same method, and found it very successful.

met

met with a little while before I fell upon this method, wherein probably it would not have succeeded; 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 six months old, was seized with a vomiting and purging, attended with some degree of fever, great inquietude, and he seemed to be threatened with convulsions. What he vomited was chiefly the milk which he had sucked; his stools at first were greenish, but soon turned watery, and so continued to the

last. He had been ill six days before I saw him. I ordered him first a few grains of the powder of *ipécacuanha*, which was no sooner swallowed, than it came up again. After this he had the chalk julep, and starch glysters, with a few drops of the *tinctura thebaica*, which relieved him from time to time; but the symptoms 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 *anus*, perfectly empty, which in some measure accounted for one symptom during the latter part of his

his illness; which was, that his navel seemed 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 signs of inflammation any where in the stomach or intestines, and the liver, spleen, and pancreas, were all of the natural size and appearance. I was not a little surprized to see all these parts look so well, and was just going to finish my enquiry, when I observed, that the right kidney was larger than natural, and of a more livid colour. I therefore took it out, and cut through the convex

side 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 swelled, nor did it seem to have been inflamed, though it likewise contained gravel, but in a smaller quantity.

Now here was a case where the above method could not succeed,
(unless

(unless from the febrifuge quality of the medicine) nor perhaps any other; but it is probable that instances of this kind very seldom occur in such young patients. If I had suspected 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 disease. Upon asking the child's mother if her husband or herself were subject to the gravel, she told me she was, and had bred the child with it, as she expressed herself.

Since the first edition of this Effay, I have met with another instance, in a child about six months old, where the watery-gripes seemed to be owing to gravel. The child was very feverish, and a good deal of gravel was observed on one of the clouts, which made me suspect that the complaint might arise chiefly from that cause; wherefore I ordered the *semicupium*, which gave him quick relief, and by means of that, together with a gentle anodyne draught, two or three times repeated, he soon recovered, without the help of any other medicine.

The

The father of this child was subject to the gravel.

In a case of the watery-gripes, wherein it was tried three years ago, it did not prove effectual, though for two or three days at first the child seemed to be the better for it. But upon examining the body, after death, it appeared, that, as far as we could judge, the case 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 been reduced by maceration to almost

almost a gelatinous consistence, and the small guts, their whole length, were in the same tender condition. In the mean time, there was no appearance, either of inflammation or mortification, and the smell was less offensive than is usual in dead subjects. The texture of the great intestines seemed sufficiently firm, and the rest of the abdominal viscera had all the natural appearance. I think it will be allowed, that its not succeeding in this case could bring no disgrace upon the medicine; the tender state of the stomach and small intestines being sufficient to prevent

prevent the success of any medicine whatever.

In a child about three weeks old, that died of the watery-gripes, and which I opened lately, I found most of the stomach, towards the upper orifice, and almost the whole fundus, in the same tender state with that of the child just now mentioned. But towards the pylorus, the structure was firm enough, as likewise that of the intestines, both small and great. The stomach was quite distended with curdled milk, and victuals with which the nurse had crammed

crammed the child, mixed likewise with some of the chalk julep, but the whole intestines were remarkably empty. There was no morbid appearances to be observed any where but in the stomach, and this *viscus* being so full, while the intestines were so empty, it looked as if the disease had been chiefly owing to a spasm in the *pylorus*, which prevented the contents of the stomach from passing into the *duodenum*. Perhaps cases of this kind are more frequent than is commonly imagined ; and it might probably be owing to the tender state of the stomach, that

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the antimonial solution which was given the child had but very little effect; and I have commonly observed, that when vomiting or purging medicines, given to infants in a sufficient quantity, have not the usual effect, it is a very bad sign. What is remarkable, this was the third child (and they have never had any more) which the parents have lost at the same age, and in the same disease. And this was likewise the case in the family where the other died. The extremities of both felt very cold, except when kept warm by art. The face likewise felt cold, and looked

looked very pale, pinched and distressed.

I come now to the article of CONVULSIONS, which I distinguished before into two sorts, *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 words, whatever clears the bowels
of

of their acrid contents, or renders these contents mild and inoffensive, will of course cure the Convulsions. Wherefore, if the child is costive, 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 magnesia, or small quantities of rhubarb, mixed with absorbents.

Sometimes they are owing to the striking in of a Rash, or to a sudden stopping of that discharge behind the ears, which is so salutary to infants, from the child's

having

having caught cold; in both which cases the bowels are commonly affected, and must be particularly regarded, in the manner just now recommended. But, besides, it will be necessary to apply a blister between the shoulders, or behind the ears. The warm bath too is sometimes of great service here.

By attentively observing the above circumstances and directions, the symptomatic convulsions, if taken in time, may frequently be cured. But the idiopathic are much harder to manage. It is, however,

however, a great happiness that these do not so often occur. All that I shall say of them at present is, that I think they may for the most part be distinguished from the other sort by the following circumstances. When a child is seized with Convulsions, without having any complaint in the bowels, or symptoms of teething, especially if they happen before the teeth shoot into the gums, and if the child has had no rash, nor the discharge behind the ears dried up, we may reasonably suppose them to be *idiopathic*.

G

I was

I was called to a case of this kind about four years ago. A child about five weeks old, very healthy and thriving from the birth, was suddenly seized with Convulsions. He had no complaint in his bowels; however the nurse gave him a glyster. It consisted only of broth and oil, and operated but once; if it had been stronger, perhaps it might have had a better effect. The child was taken ill about five in the afternoon, but they deferred sending for me till eight o'clock next morning, when he was just a dying. Now, as the child had
always

always been remarkably well in his bowels, and, even after he was seized with fits, had no sickness, nor purging, nor swelling in the belly, and was too young for teething, I referred this case of Convulsions to the *idiopathic*. Upon enquiring of the mother, who suckled him, whether she knew of any thing that could affect the child so suddenly, 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 several months, and that she ap-

prehended this incident might have had a bad effect upon her milk. Perhaps sharp glysters, the *semicupium*, blistering the legs or feet, or behind the ears, to procure a discharge 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 diseases most incident and fatal to infants, during the first few months after the birth, *viz.* In-

ward Fits, the Thrush, loose, sour, curdled, or green stools, the Watery-gripes, and Convulsions.

I come next to TEETHING, which, in the same manner as was observed on convulsions, is said 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 said to die of teething. Children who are seized suddenly with strong convulsions, which quickly carry them off while they are cutting their teeth, may often be said

to die of teething ; but we cannot be sure that this is always the case neither, as there are instances of the same kind of convulsions occurring both before and after the usual time of cutting the teeth ; witness the case of the boy above-mentioned. But except in such cases, which seldom 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 several who breed and cut them without any bad symptom. Dr. CADOGAN, in his ingenious ESSAY upon NURSING,
 &c.

Ec. p. 31, makes the following
 reflections: “ Breeding teeth has
 “ been thought to be, and is, fatal
 “ to many children; but I am con-
 “ fident this is not from nature;
 “ for it is no disease, 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 symptoms, seem
 “ to attend this operation of na-
 G 4 “ ture,

“ ture, healthy children have
 “ sometimes bred their teeth with-
 “ out any such bad accidents;
 “ which ought to incline us to
 “ suspect the evil not be natural,
 “ but rather the effect of too great
 “ a fulness, or the corrupt hu-
 “ mours of the body put in o
 “ agitation by the stimulating pain
 “ the tooth causes in breaking its
 “ way out. This, I believe, never
 “ happens without some pain, and
 “ possibly a little fever; but if
 “ the blood and juices be per-
 “ fectly sweet and good, and there
 “ be not too great a redundancy
 “ of them, both will be but
 “ slight,

“ flight, and pass off impercepti-
 “ bly without any bad consequence
 “ whatever.”

Thus we see it is the Doctor's opinion, that the dangers which attend teething are owing to too great a fulness, 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 service; and in general we find, that children who drivel plentifully, and are loose

loose in their body, while they are about teeth, cut them the easiest.

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 stopt, we must endeavour to restore them as soon as possible. For this purpose the best way, if the child is constive, 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

there was a fever attending the teething.

Towards the end of August and the beginning of September 1766, a fever was frequent at HAMPSTEAD amongst children; and as several of them happened to be about teething at the time, the distemper was looked upon by some as entirely owing to that cause. 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 considered as such, if they had died

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 sensibly worse 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 some had slight convulsions. As none of those whom I had the care of were constive, but most of them inclined the other way, and some had a purging, I puked them all as soon as I was called, which seemed to have a good effect. Afterwards I
gave

gave them small alterative doses of the antimonial wine, or of a very weak solution of the emetic tartar, with, or without, the *pulvis e chelis*, according to the state of the bowels, made up into a mixture; a dose of which was to be taken every four, five, or six hours, as the violence of the symptoms, and the age or strength of the patient required; and they all recovered. Even where the fever intermitted they also got well, by pursuing the same method; only every now and then, according as the child could bear it, I increased the dose of the alterative so as to

make

make it puke a little, in which operation it always discharged more or less bile.

But I must not dismiss this subject 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 use the fleem. This I have sometimes seen give immediate relief, but have often been disappointed. However, in the above circumstances, if the child is convulsed,

vulsed, and the jaw not locked, it is certainly right to try it.

Children, while they are about Teeth, are frequently subject to various sorts of eruptions, commonly called a RASH. Sometimes it spreads all over them, and appears very much like the itch. Sometimes it is confined to the head and face, putting on the form of very large scabs, or blotches, a good deal like the small pox, just after they are turned. Whatever sort it be of, if the child is otherwise well, and
not

not coſtly, it is perhaps the moſt prudent way not to meddle with it. When the face has been much diſfigured by it, which has made the parents impatient to have ſomething done, I have ſeen very good effects from a ſmall bliſter, applied between the ſhoulders, and kept running for ſome time. But I never durſt venture to apply any thing to the ſcabs themſelves †.

† Lately, I have, in caſes of this kind, given the antimonial wine, by way of alterative, night and morning, and a gentle purge between whiles, once or twice a week, with very great ſucceſs.

They

They are likewise subject to the RASH soon 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 convulsions. In this case, besides the method recommended in these complaints, I have seen the warm bath of singular service; and very good effects from a blister.

I was sent for a few years ago
in a case of this kind. A child
about six weeks old was seized
with the watery-gripes from the
H striking

striking in of a Rash. She had been ill upwards of two days before I was called to her, and when I first saw her she seemed to be just dying. Her face was livid and contracted, her eyes fixed and glazed, and her hands clenched with convulsions. 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 soon as possible, as high as the breast; 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

upon the countenance, the eyes recovered 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 slept several hours. After the sweat was over, a blister was applied between her shoulders, and though the Rash did not return, she very soon got well.

Besides the diseases treated of above, there are some others, such as the SMALL-POX, MEASLES,
H 2 and

and CHIN-COUGH, which, as is too well known, carry off numbers of children. But since these distempers, especially the two first, are more fatal to grown persons, than to children or infants, they cannot properly be considered as peculiar to childhood. However, in the Small-Pox, I have had several opportunities of trying the antimonial solution, both in children and adults, and in the beginning of the disease, where the stomach is foul, it has a remarkable good effect. But when the fever runs high, I always make it a rule to take away some blood

6

first ;

first; and if the body is costive, to give an opening glyster; or, which is still better, a small dose of calomel over night, and next morning a gentle cooling purge.

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

But in the CHIN-COUGH, I have tried it with very good success; and from the experience I have had of it, have reason to

H 3 think,

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worse in the night, about an hour before bed-time.

When the violence of the Cough is over, it will be sufficient to give the medicine once or twice a week, according as the phlegm gathers, less or more; which can easily be judged of, not only by the quantity thrown up during the coughing, but likewise by its rattling in the throat between the paroxysms.

In the year 1766, I attended fourteen patients in the HOOPING-COUGH, all children but one.

H 4.

Some

Some of them had it to a very severe degree; and one child, a little under two years of age, had, at the beginning, a remittent fever, and fits attending the Cough. I treated them in the manner above-mentioned, with the antimonial mixture; and they all got very well over the disease, except one. This was a child about two years and a half old, who had been violently seized with the Hooping-Cough, while at the same time she was extremely ill of the measles. She had been almost a month ill before I first saw her; when she was sent from town to
Hamp-

Hampstead, for change of air. She had been let blood once, but sparingly; but as she had been ill so long, and I found her so much weakened, I durst not venture to repeat it, though I was sorry 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 suppuration, or mortification. She was only six 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

much exposed, and finding her grow weaker every day, I advised the parents to take her back to town, where she died within two or three days afterwards.

I had lately an opportunity of trying both the antimonial solution by way of puke, and vomits compounded of the ipecacuan wine and oxymel of squills, 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

not so good an effect upon the Cough as the former, neither did he perspire so plentifully after it.

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

But

* Since the first institution of the dispensary for the infant poor, which was near the latter end of April 1769, I have had a great number of children in the Hooping-Cough under my care, and have tried various methods with them, but have found none succeed so well as the above-mentioned. Nay, I don't recollect that it has ever failed, where the child was otherwise

But after all, the Hooping-Cough is often a very tedious and obstinate complaint; and even the change of air, so much celebrated in this disease, though in some patients it seems to have a remarkable good effect, yet to others it affords no sensible relief.

wife healthy, or had not been too much weakened before the use of it. I now commonly order it to be given twice a day, *viz.* at noon, and at five o'clock in the afternoon, in a sufficient quantity to bring up the phlegm by puking. If the child is costive, I give a gentle purgative occasionally; and, in the beginning of the disease, if he is pretty strong, sanguine, and much inclined to be feverish, I order him to be blooded, either at the arm, with the lancet, or behind the ears, with leeches.

The

The RICKETS makes its first appearance in childhood ; but the 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 have lived for several years past, being so very dry, I have seldom met with it unless amongst children put out to nurse, 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,

clean, and rubbing it carefully all over, two or three times a day, together with the cold bath, have generally removed the complaint in a short time.

WORMS seldom appear in infancy, that is, before children are weaned, and therefore cannot properly be reckoned amongst the diseases fatal to infants. However, as they are much more incident to children than to adults, it may not be improper to take some notice of them here. But first, I cannot help thinking, that worm cases more rarely occur than

than is commonly imagined; for, I am very well assured, that the common symptoms of worms, such as picking the nose, grinding the teeth in the sleep, starting and calling out while asleep, sleeping with the eyes half open, a wan complexion, a stinking breath, pains in the stomach and bowels, a want of appetite; or, on the contrary, a perpetual craving for food, a depraved appetite, &c. I say, I am well assured, that all these symptoms are frequently produced from a foulness of the bowels when there are no worms in the case. I have good reason to say
 and so,

so, because I have had numbers of children with the above symptoms under my care, who, by the use of proper medicines for cleansing and strengthening the bowels, have got rid of them all, without ever having been observed to void one single worm; though, while their purging medicines were operating, the stools were carefully inspected.

About three years ago, I was sent for to a boy, between five and six years of age, who was ill of a Worm-Fever, as his parents suspected. He lay very stupid, his
pulse

pulse was low and quick, the tongue very foul, his breath fetid; he had no sound sleep, but slumbered frequently, with his eyes half shut; he grinded his teeth often, had inward fits, and was sometimes threatened with convulsions. His urine was of a dusky yellowish colour, but without any sediment. His belly felt very hot; his stools were rather costive, of a dark greenish cast, a clayey consistence, and very offensive to the smell. He had been ill about a fortnight before I first saw him, and was so low and weak that he could not well bear

evacuations. However, he had several glysters with aloes, and now and then a pill with a few grains of calomel. He lived near a fortnight after I was called to him, and during that time he voided three worms. The first, which came away near three weeks after he was first taken ill, was about five inches long, of a pale red colour, and very much resembled a common earth-worm. The other two, which were voided about two days after the first, were between two and three inches long, but very slender, and of a pale whitish cast. These seemed to be

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produced from the other; and from their coming away hopes were conceived, that by pursuing the same method more worms might be expelled, and the child cured. But these hopes were fallacious, for he lived not many days after. I prevailed upon the parents to let the child be opened; and after examining the stomach and the whole intestinal canal, with the greatest care possible, I could not discover the least appearance of a worm of any kind; but the large intestines contained a great quantity of a thick, viscid, clayey, greenish excrement, very

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fetid,

fetid, of the same sort with that which he voided by stool. And this, I imagine, was the chief cause of all his illness; for the bowels themselves seemed to be in a sound condition.

However, as it is impossible to be certain that children have not worms, when the symptoms strongly indicate them, though they are not voided, it is certainly right to try whether they have or not; and as a foulness of the stomach and intestines frequently occasions the same symptoms in children as worms do, it seems

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reasonable to expect, that the same sort of remedies should be of service in both cases; as indeed they are. Wherefore, if a child with the above-mentioned symptoms is costive, I give a dose of calomel at bed-time, from half a grain to three or four, more or less, according to the age and strength of the little patient, and a gentle purging draught or powder next morning; repeating them at proper intervals. By this simple method alone I have recovered, in a very short time, a great many children, who have been thought to be troubled with worms, without one having been

observed to come away in their stools; and others have voided a great many, and got well apace. But if he is not costive, and is sick, or oppressed at his stomach, I commonly order an antimonial puke, which generally operates both ways, when the stomach and bowels are foul; and I have met with a few instances where a vomit of this kind has forced away worms by stool, after repeated purges had been given in vain.

The last disease I have to take notice of, is the **SCROFULA**, or **KING'S EVIL**, which I believe, for
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the most part, begins first to appear in childhood, but not always. Like the Rickets, it sometimes proves a source of bad health through life, but is not very often fatal to children. It is generally supposed that the *pancreas* and mesenteric glands are commonly the first affected in this distemper; whence proceed indigestion, and pains of the belly, attended with a swelling and hardness, before the disease makes its appearance outwardly. Hence whatever is of service 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 disorders of this kind.

THOUGH I am no advocate for bringing children up by hand, as it is called, when they can be properly suckled, yet as some mothers for want of health, or sufficient vigour of constitution, are not able to suckle their infants themselves, nor will-
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R U L E S

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 suckled; yet as some mothers for want of health, or sufficient vigour of constitution, are not able to suckle their infants themselves, nor willing

ling to commit them to other hands for that purpose: As there are some whose nipples are too small, or perhaps so ill-formed, that the child cannot lay hold of them; and some whose situation in life will not allow them to perform this duty: not to mention, besides, that there are infants who will not take the breast: I thought it might not be impertinent to offer a few directions about *dry-nursing*; for which I reckon myself the better qualified, that I have had some experience of it in my own family.

But

But though, as I just now observed, I do not advise dry nursing of infants, when they can be properly suckled, yet I would not have parents to be discouraged from trying it when it becomes requisite, being firmly persuaded, that if a child is born pretty strong and healthy, it had better be brought up by hand in the method to be afterwards explained, than suckled by an ailing nurse, or one that has not a sufficient quantity of milk. For when I talk of a child's being properly suckled, I mean by a nurse who is healthy, sober, good tempered, cleanly, careful, and has plenty

plenty of good milk. A wet nurse ought likewise to have pretty strong nerves; for if they are weak, the least surprize has a bad effect upon the milk; or if the child happens to be suddenly taken ill, from the fright and anxiety, the milk is sometimes quickly dried up, when perhaps the poor infant has the most occasion for it. For this reason some mothers, who are very fond of their children, make but bad wet nurses, though well enough qualified for it in other respects.

Again,

Again, though the child may keep well and thriving, the nurse may be taken ill, in which case the infant of course must suffer, and probably catches the distemper, if the disease is infectious; at least it must be suddenly weaned, perhaps when it is about teething, which may have fatal effects.

In this case you will say, another nurse must be found. But if it is the mother that suckles 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

fear of shocking her, and thereby increasing the danger. Besides, you are not certain the child will take to another breast; for some of them begin very early to know their nurse, and will not be suckled by another, without great difficulty. Farther, a good wet nurse is not always readily to be had, especially in or near great cities, where so many of them are given to drinking and other vices; and the worst of them will fall upon means of procuring a good character from some hand or other. And hence some parents, when the mother cannot suckle
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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 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 sake, to suckle her infant during the first few weeks, in order to prevent the milk-fever, inflammation

tions 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 suck-
 ing, the milk may be dried up with more ease and safety. Besides, the suckling may agree better with the mother than she expected; and, finding this to be the case, she may be encouraged to continue it. It is true that women who do suckle, upon catching cold in their lying-in, or committing some trespass in diet or the like, are sometimes subject to the
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complaints abovementioned, but they are not near so liable to the milk-fever at least as those 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 spoon. They both have their advocates; but the latter, in my humble opinion, is preferable.

The horn made use of for suckling, is a small polished cow's horn, which will hold about a gill and a

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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 sewed together in such a manner, as that the food poured into the horn can be sucked through between the stitches. This appears to be a very simple and ingenious contrivance, and is admired by some, who look upon it as a kind of artificial nipple; and it might very well be considered as such, if we had but the breast-milk to convey through it. Or if we could discover any food of the same
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thinness 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 sucks 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 case with two of mine, which were fed for some time in that way.

The first was suckled by her mother for seven weeks, or thereabouts, at which time the milk decreased so much, that it was found necessary 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 she sucked her food very well through it, yet it did not seem to satisfy her, which made her often fretful. She was frequently griped, much troubled with wind, almost always loose in her body, and made a great quantity of urine.

After-

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

The next had been suckled four weeks, when her mother, by catching cold, was seized with a violent cough, and entirely lost her appetite; for which reasons it was thought proper to wean the child, and she was fed with the horn, in the same manner as the other, which had the same effect, of making her much afflicted with wind, and loose 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 goat, the use of proper medicines, and the asses milk, she at last recovered, and became very thriving likewise.

The horn having succeeded so ill, I made no farther trial of it, and the last child I had was fed with the goat. She likewise was suckled almost four weeks, when her mother was again seized with a violent cough, and as she was not willing to have a wet nurse got for

for the child, I determined to wean her. But previous to that her food was made thicker, which made her less fond of the breast, and as she fed very heartily, she never once hankered after it.

Though this was not a stronger child born than her sisters, yet she was always more healthy and thriving while an infant, and never had the least tendency to a looseness, which I cannot help ascribing, at least in part, to her having been fed in a different manner.

Having given my opinion in preferring the boat or spoon 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 suckled, I think the best food is crumb of bread boiled in soft water, to the consistence of what is commonly called pap, or a thin panada. The bread should not be new baked, and, in general, I think
roll

roll is preferable to loaf bread; because the former is commonly baked with yeast only, whereas the latter is said to have allum sometimes mixed with it. But whether it has or not, of this I am certain, that the loaf bread in and near London, grows very soon stale, and so hard, that in a few days after it has been baked, it becomes not eatable.

This pap should be sweetened with soft, 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 case

case 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 sour upon their stomachs *.

Before the child is weaned, the victuals should be made thicker,

* A very ignorant writer in the *Political Register* observes upon this passage, that there should be no sugar at all put into children's food; and the reason he gives for it is, lest it should ferment in their stomachs. If this sage doctor was as well skilled in his profession as one who sets up for a critic in it ought to be, he would certainly have known that digestion is really a fermentatory process.

by

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 its victuals as often as possible, and now and then some of it alone to drink. Asses milk will be still better, when it can be conveniently had, and the parents can afford it.

If the child (whether it is suckled at first, or not) is much troubled

bled 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 fennel-water. This will be still more proper if the child is of a loose habit of body. But if it is costive, it must be kept open with a little manna, or magnesia, mixed with its food from time to time, as occasion requires.

After it is weaned, especially after it comes to be used to thick victuals, it should have now and
then

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, sweetened with a very little sugar.

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

About the age of six 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 small, and mixed up into a kind of pap, with some 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 feverish,

ish, it must 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 same age, or rather before, that is, as soon as the child can hold any thing in its hand, the nurse should every morning give it a piece of the upper crust of a loaf, cut in the shape, and about the size of a large Savoy biscuit, one end of it dipped in its food, or a little milk, and put in-

to its mouth, and the other to be held in its hand. The child will lie 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 saliva into the mouth, whereby the gums will be softened, and at the same time, by the gentle and repeated friction, the cutting of the teeth will be greatly promoted.

The victuals should be made fresh twice a day, that is, morning and evening, in winter; and three times in summer, especially
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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; but the few following general rules may be of service. During the first few weeks that the child

L sucks,

sucks, 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 suckling it. But when it comes to be weaned, it must be fed chiefly in the daytime, and put into the habit of sleeping during the night as soon as possible. At first it should be fed frequently, and only a little at a time; for cramming can never be of service, but hurtful. I wish nurses would observe this more than

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 a child has fasted for a good while, or has had a long sleep, it is right to offer it food,

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and if it is hungry, there is no sort 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 suckled at all, it must be used from the birth to feed chiefly in the day, so that its sleep may not be disturbed in the night.

The following method will greatly contribute towards a child's resting

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 practised with success, 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, even if it is asleep, open it before the fire, turn it dry, as the nurses term it, and feed it. The opening it before the fire, &c. rouses a child sufficiently out of its sleep to make it receive nourishment; but at the same time disturbs its rest so little, that it

frequently does not open its eyes the whole time it is a feeding. I have seen, oftener than once, a child taken up in a sound sleep, eat a hearty mess of victuals, and afterwards break wind two or 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 satisfied, and no longer. I fancy most children might be soon brought to this by not feeding them from six or seven o'clock in the evening, till the above-mentioned time; and the method here advised.

advised is attended with this great advantage, that if they are fed about this time, they seldom want any thing till about five, six, or sometimes seven o'clock in the morning.

As to cloathing. They should have nothing tight about them, and as few pins as possible should be used. They ought to be kept rather warm, especially 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, nurses
ought to be very careful to keep
the infants dry; for by soaking
long in wet cloaths, they are very
apt to catch cold; and besides it is
very weakening and unwholesome
in every respect.

For this reason also, whenever
the child is turned dry, the cloths
which are put to it should be very
well dried and aired. I am afraid
this circumstance is not always
sufficiently attended to, though it
is.

is certainly a very material one; as every body knows the pernicious effects of putting on damp linen, or lying in ill-aired sheets.

These directions ought to be still more carefully attended to, whenever the child happens to be loose in its body; in which case the clouts, as soon as they are taken off, ought to be put away at a distance from the child; or, if the stools are very fetid, quite out of the room; as being not only offensive, but unwholesome to the infant.

But

But though I would by all means advise the keeping of infants as dry and clean as possible, 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 disturbing their rest. In case of a purging, it becomes necessary 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 observation holds good, that very few children belonging
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to people of fortune die in their infancy, I imagine it must be owing to their having more convenient nurseries, and greater care taken of them in the above-mentioned respects; the extraordinary encouragement given to the nurses, making it their interest to give the children diligent attendance.

The keeping of infants warm, so as to preserve them from catching cold during the few first months, is of so much consequence with regard to their future health and thriving, that the greatest

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 nursery 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 saved by that institution, than perhaps there are at present. For to send new-born infants to such cold houses, as the nurses in the country that take in such children generally live in, unless the nurses are extremely careful indeed, is for the most part sending them

them to an untimely grave; especially if the place be situated at any considerable distance, and the weather happens 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 a year old, that is, past the age when they commonly leave off clouts, they might be sent into the country at much less hazard of their lives; both
from

from their having more strength to bear the cold they may be exposed to, and likewise from their being less liable to suffer from the carelessness of the nurses in neglecting to keep them dry.

Considering how well the Foundling Hospital is situated, the abovementioned advantages might, in my humble opinion, do more than compensate the difference of the air between that and farther in the country.

But all this, by the by. I come next to consider the article of sleep.

Every

Every body knows, that the younger children are, provided they are well, the more they are inclined to sleep. The infant having lain so 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 sleeps at first, the better, if it is but a right sleep, and not the inward fits, described in the above Essay. But as, in order to prevent these, it ought to be dandled and patted, to make it break wind always after sucking or feeding, so this exercise ought to be continued longer at a time, and

and more frequently repeated; to rouse the child by degrees, out of this sleepy habit, especially after you begin to use it to thick victuals.

Some infants are more wakeful in the night, than in the day, which is hurtful to themselves, and irksome to those about them; and therefore they ought to be broke of it as soon as possible. The safest 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 case, 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.

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

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of the cradle, together with the nurse's drowsy song, disposes them indeed to sleep, but then they sometimes get into such a habit, that it is with great difficulty they can be made to sleep without those aids. Besides, as most children, when they are well, can be lulled to sleep almost at any time by the motion of the cradle and singing, some 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 sleep immediately after feeding, instead of diverting and giving it exercise as much as possible in the day,

day, both to help to digest its food, and to make it rest the better at night. For when I said, the more an infant sleeps, 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 exercise. Add to all this, I do not think they are laid so warm and comfortable, nor so much at their ease, 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 sometimes 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 practised by nurses who attend lying-in women, when their young charge happens to be at any time restless.

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

Infants, however thriving they may be, for the first few months after they are born, have not strength to use any exercise themselves,

selves, 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 salu-
 tary exercises. Upon their nurses,
 therefore, they must depend at
 first, for proper exercise; and
 next to suckling or feeding them,
 and keeping them dry and clean,
 as has already been directed, there
 is nothing so conducive to their
 thriving as this.

The first exercise I shall men-
 tion proper for infants, is dandling,

which is certainly of service 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 some people heedlessly do; for they begin very early to be susceptible of fear, much sooner than persons not accustomed to them would imagine. It is true they may be brought to bear pretty hearty shaking, swinging, and even jolting, by degrees; and all this is of service, when they have strength to undergo it; nay, when the child

child bears it well, we reckon it a good sign that it is thriving, and has been well nursed; but it should be done very gradually, and not attempted too soon. I have seen an infant almost thrown into fits, from a sudden swing 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 near them; in consequence of the weakness and sensibility of their nerves.

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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 dressed and undressed; and the rubbing should be repeated from the loins downwards, every time they are turned dry, unless they have a purging, when it might fatigue them too much to have it done so often. There is nothing that infants in general seem

seem 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 else will; and it is not only very pleasing 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 good preservative against their catching cold is, for
the

the nurse, every morning when she dresses 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 same manner and dried. If she 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 some common powder to it, by means of a soft puff. But if much galled,

galled, from the heat and sharpness of the urine, which will sometimes happen about the time of teething, especially to fat children, she must take some fuller's earth, dissolved in a sufficient quantity of hot water; let it stand 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 cerufs in this case; but as lead, in whatever shape you use it, is supposed to be hurtful to the nerves, and the other answers the purpose altogether as well, without any danger attending

attending it, I would therefore prefer it.

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

When

When this discharge is moderate, it should rather be encouraged than checked; and it will be sufficient for the nurse, every morning, to wash and clean the part well with cold water, and afterwards to rub it pretty hard with a dry cloth. But if the discharge is too plentiful, a bit of fingered linen rag, such as the nurses 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

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

F I N I S.

E R R A T A.

Page 62. line 6. for 12th read 24th.

— line 8. for 18th read 36th.

— line 12. for 24th read 48th.

PROPOSALS

For administering

ADVICE and MEDICINES

TO THE

CHILDREN of the POOR.

BY

Dr. GEORGE ARMSTRONG.

THE many noble Hospitals and Colleges which have at several Times been erected and endowed in this Nation for the Relief of the Diseased, will be everlasting Monuments of its generous and humane Spirit. To the Honour of the present Age, what was still wanting to remove or alleviate

alleviate human Misery has in many Instances been supplied by private Contributions and Benefactions. Thousands of pregnant Women have been carefully attended, and safely delivered. The Small Pox is become far less formidable, and even those Persons whose Complaints are the Fruit of their own Folly, are not left destitute of Assistance.

In the mean Time, one main Duty of Humanity is thought by some not to have been sufficiently attended to; though, without it, the Benefit of all other Charities will in a great Measure be lost to Individuals, and consequently to the Public; I mean the Care of Infants from their Birth to their Fourth Year compleated; in which

which Period, by the London Tables, one Half of all that are born die. If by proper Means, even a moderate Part of this Loss can be prevented, the Object seems important, were we to view it only in a political Light.

Children, till they arrive at Three or Four Years of Age, cannot be received into Hospitals (except in Cases of Accidents and the Stone) for several obvious Reasons. It is true, they may be admitted as Out-Patients, and they frequently are; but as none of the Hospital Physicians see their Out-Patients oftener than once or twice a Week, and as the Complaints of Children, especially during the tender State of Infancy, frequently require more immediate

N Relief,

Relief, if there was a Place established for giving Advice and Medicines several Times in the Week to the Children of the Poor, by a Person, who, from his Success in treating the Diseases of Infants for some Years, hopes he may be deemed qualified for such an Undertaking, the great Mortality of Children might be diminished in some considerable Degree: For it will hardly be denied, that Numbers are lost for Want of timely Assistance.

The Situation and Air of *Hampstead*, where I have lived for these Fifteen Years past, being remarkably dry and healthy, and at a small Distance from the most populous City in *Europe*, there is constantly a great Number

Number of Children from *London* bred up there; and as, amongst such Numbers, there must always be some indisposed, I have had more Opportunities of improving myself in treating the various Complaints of Infants, than almost any other Situation in *England* affords. And having lately communicated my Thoughts upon this Subject to some of the most eminent Physicians, and likewise to some Gentlemen no less eminent for their public Spirit, they have approved of, and encouraged me to publish, the following

P R O P O S A L S.

- I. That I shall attend to give Advice *gratis* to poor Children

Four Days in the Week; viz. on the *Mondays, Wednesdays, Fridays, and Saturdays*; and at first, Two Hours on each of those Days. If that Time is found to be insufficient, it shall be prolonged to Three Hours or more, as Occasion shall require. But as Advice without Medicines would be of little Service, as several of those Patients will require Trusses, which are costly, as there is already provided a House in *East-Street, Red-Lion Square*, conveniently situated, for the Children to be brought to, and as the Assistance of Two or Three Servants extraordinary will be wanted, it is proposed,

II. That

II. That these Expences be defrayed by private Subscriptions, on the following Terms: That is to say, that every Person subscribing One Guinea *per* Annum, shall be intitled to have always One Patient at a Time under my Care; and every Person subscribing Two Guineas, to have Two Patients; and so on in Proportion.

III. That the Parents or Friends of every Patient be obliged to give an Account to me of the Success of the Medicines administered, otherwise to be excluded

excluded the Benefit of the
Charity for the future.

IV. That I shall keep as fair an Account as possible of the Success of the Medicines, according to the best Intelligence I can procure, to be laid before the Public at the End of each Year, so as they may judge whether the Charity deserves further Encouragement or not.

London, Feb. 1,

1771.

G. ARMSTRONG.

The undermentioned Physicians
have most obligingly signified their
Readi-

Readiness to favour me with their Advice in extraordinary Cases, and a Committee will be appointed to meet once a Quarter, to examine the Books, Medicines, &c.

Dr. *Addington.*

Dr. *Baker.*

Sir *William Duncan*, Bart.

Dr. *Ford.*

Dr. *Huck.*

Dr. *Hunter.*

Sir *John Pringle*, Bart.

Dr. *Wathen.*

Dr. *Watson.*

Dr. *Wilbraham.*

Subscriptions to this Charity are taken in by J. DODSLEY, Bookseller,
in

in Pallmall; C. MARSH, at Charing-cross; T. CADELL, Successor to Mr. MILLAR, in the Strand; J. JOHNSON and J. PAYNE, in Pater-noster Row; and H. PARKER, Print and Book-seller, near the Royal Exchange; where Proposals are to be had, Receipts given to the Subscribers, and likewise Tickets of Recommendation to the Charity.

Agreeable to this Plan a House was opened the 24th of April 1769, in *East-Street*, near *Red-Lion Square*, under the Denomination of the DISPENSARY FOR THE INFANT POOR, where Advice and Medicines were administered *gratis*, to the Children of the Poor, four Times a Week; on the Days mentioned in the Proposals,

posals, till about two Months ago, when finding that very few brought their Children on *Saturdays* (most of them being then employed in Marketing and cleaning their Houses) I took off that Day for private Practice; and *for this Purpose* do attend *Tuesdays* and *Saturdays*, in *East-Street*, from Twelve till Two o'Clock.

It is now a Year and Ten Months since the Dispensary was first opened, during which Time I have had 1719 poor Children as Patients under my Care, out of which Number I have lost 87. Most of the Complaints have been Fevers of different Kinds, but chiefly remitting or intermitting; many of them attended with a Cough, some with Convulsions, some with

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Purgings, and some with Inward Fits, which had reduced several of them to such a low State, that their Parents, when they first brought them, had little or no Hopes of their Recovery. There have likewise been many ill of the Hooping-Cough; and during the latter end of last Autumn, and the beginning of Winter, a great Number bad with Fluxes, several of which were bloody.

The principal Objects of this Charity since its first Institution, have been the Children of the industrious Poor, *viz.* of Journeymen-Artificers, Handicraftsmen, and Labourers, who are commonly brought up by their Parents to some useful Employment; and consequently the Preservation of
 7 their

their Lives is an essential Benefit to the Public. The decent Cleanliness, and the modest and tender Deportment of the Mothers, who bring their Children to this Dispensary, are no small Recommendation; and the Distances from which they come, *viz.* not only from all the different Parts of *London*, but from almost all the Villages within two or three Miles of the Town, are as striking a Proof of the Necessity of this Charity, as the Success of it, under Providence, is of its Utility.

Whatever Discoveries or Improvements may be made from Time to Time, in the Application of Medicines to these little helpless Patients, shall be faithfully communicated to the

the Public; and if any Person, into whose Hands this little Treatise may fall, will propose or suggest any useful Alteration or Amendment of the above Plan, it shall be laid before the Committee, and have proper Attention paid to it.



the Public, and if any Person, into
whose Hands the said Treaty may
fall, will propose or suggest any other
Alteration or Amendment of the
said Treaty, it shall be laid before
the Committee, and have proper Ac-
tention paid to it.









