A treatise on the kinkcough. With an appendix containing an account of hemlock, and its preparations / By William Butter.

Contributors

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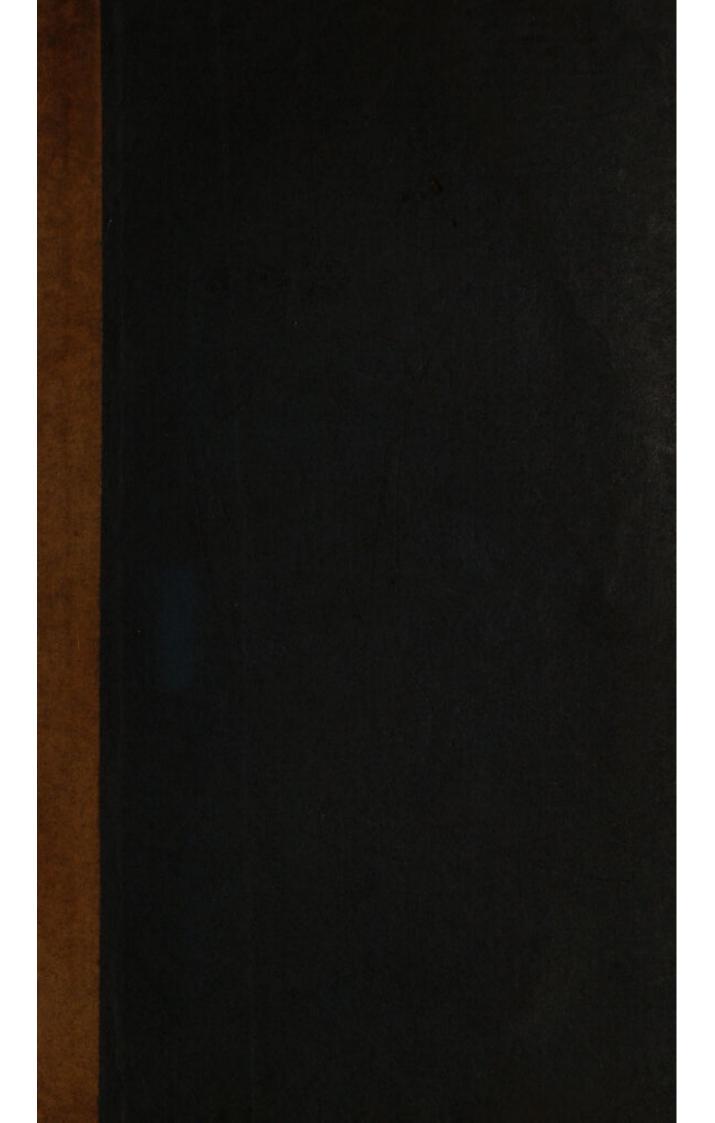
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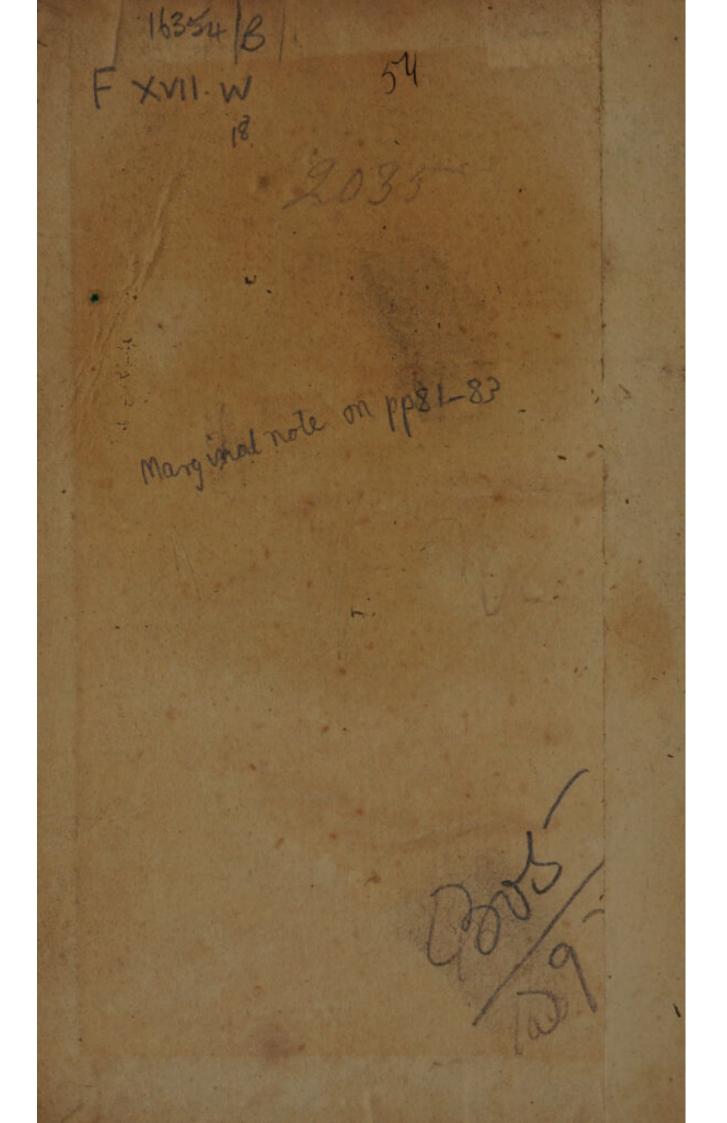
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TREATISE

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KINKCOUGH.

WITH AN

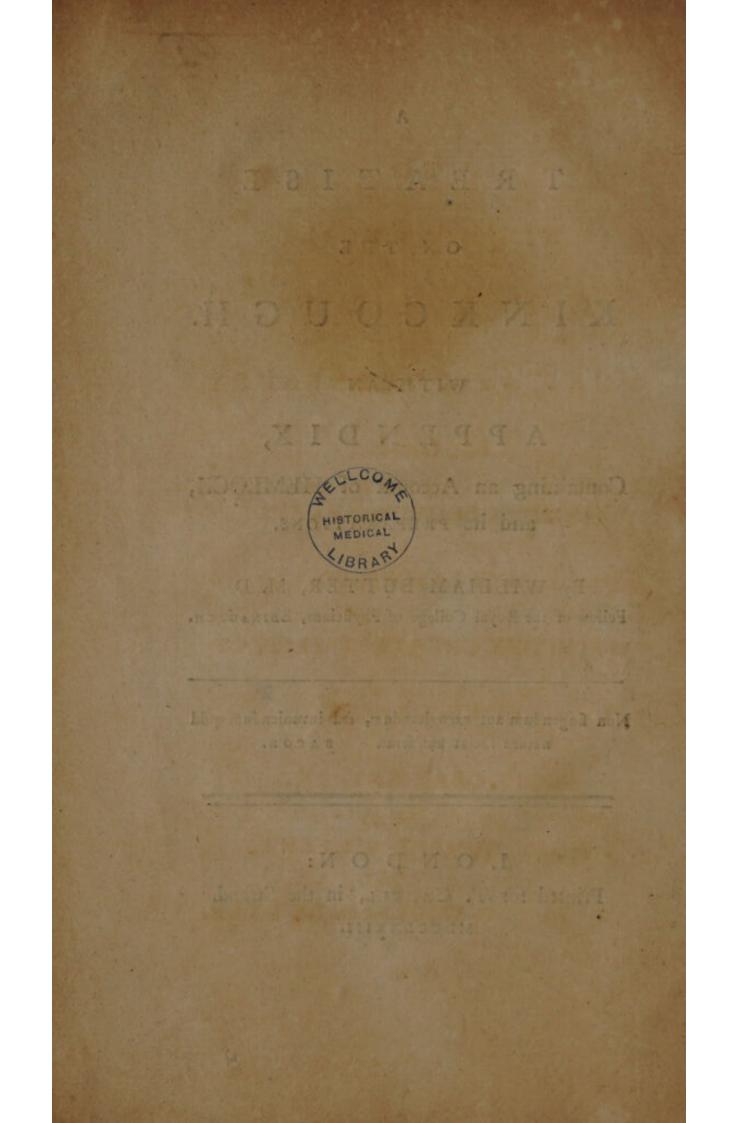
APPENDIX,

Containing an Account of HEMLOCK, and its PREPARATIONS.

By WILLIAM BUTTER, M. D. Fellow of the Royal College of Phylicians, EDINBURGH.

Non fingendum aut excogitandum, fed inveniendum quid natura faciat aut ferat. BACON.

LONDON: Printed for T. CADELL, in the Strand. MDCCLXXIII.



Fetherston

THE MOST NOBLE C H A R L E S DUKE OF QUEENSBURY, &c. &c. &c.

TO

THE FOLLOWING PAGES

ARE INSCRIBED

WITH THE GREATEST RESPECT

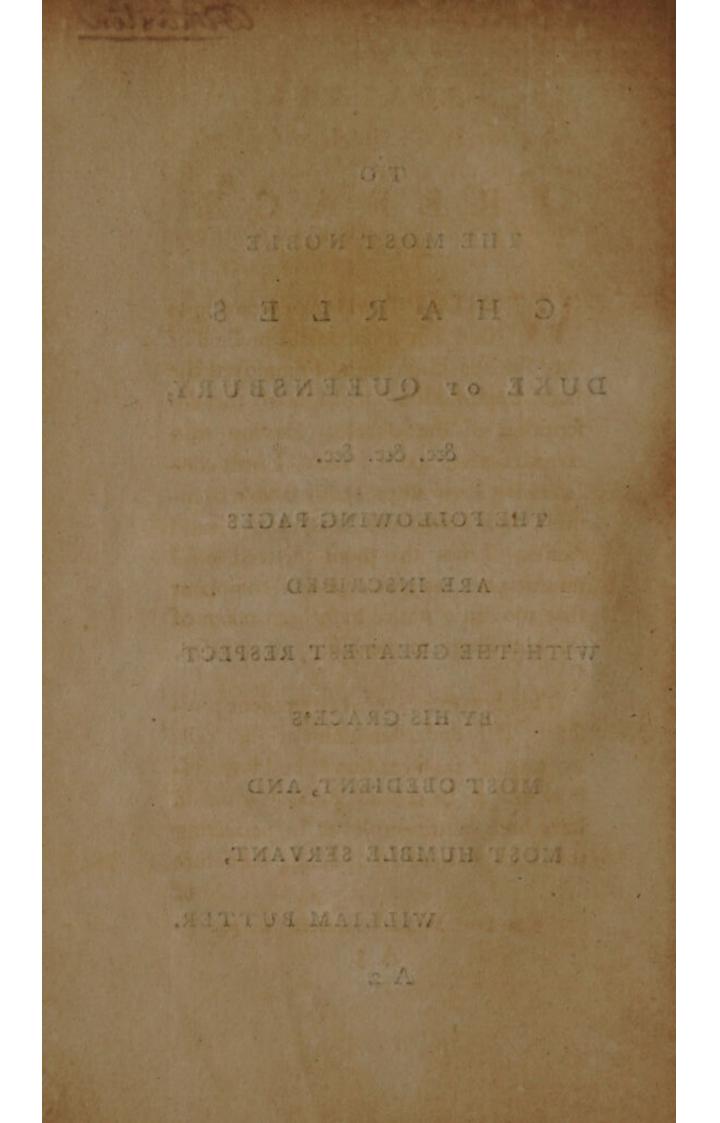
BY HIS GRACE'S

MOST OBEDIENT, AND

MOST HUMBLE SERVANT,

WILLIAM BUTTER.

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PREÉFICACE.

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I PREFACE.

W HILST I was endeavouring to find out a fuccefsful method of cure for the kinkcough, I employed the fame opportunities to improve the defcription of the difeafe. Having thus collected a number of facts, I next confidered it as no unprofitable labour to inquire into its nature, feat, and feveral caufes. I was the more inclined to fill up this plan, as it is a general complaint that too little notice hath been taken of the kinkcough in the hiftory of difeafes.

This however is what an eminent phyfician, if I understand him aright, calls by way of reprehension " building fyf-" tems." † Be that as it may, he would have been better employed in perfecting the description, and elucidating the nature of

+ See Lond. Medical Observations, art. 30.

of the kinkcough, than in giving to the publick a method of cure for it, confifting only of a medicine which had been again and again publifhed with the fame view before; and eked out with a few obfervations as triffing as unworthy of him.

But though the method of cure laid down in the following treatife hath a fair claim to novelty; yet I defire no fhare of the publick favour, unlefs it fhall be found as fuccefsful as it is new: for I am confcious that a mere innovator, efpecially in the practice of phyfick, is not only an infignificant, but a very reprehenfible character.

It hath always been found a difficult matter to do juffice to the experiments of others: the neglect of a circumftance feemingly trifling, or a fuppofed improvement on the procefs, hath often rendered a very important fact difputable, and caft a flur upon the veracity of the author.

In justice therefore to myself I think it proper to declare, that I will not be answerable

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PREFACE.

anfwerable for the fuccels of any experiment that may be repeated after me; unlefs it be performed exactly according to the method which I have defcribed, and alfo with the very preparation of hemlock which I have always ufed : for this and other reafons, I have added an account of hemlock and its preparations, as a neceffary fupplement to my difcourfe on the kinkcough.

If these endeavours, for the improvement of my profession, meet with a favourable reception, I shall soon give to the publick the whole of my experience with regard to hemlock as a medicine.

In the mean time, as that experienced phyfician, my friend Doctor Eliot hath favoured me with a valuable communication on this fubject, I infert it here in his own words.

"The violence of coughs, unattended with inflammation, is abated, by the ufe of the hemlock, after opiates have, with every precaution, been given to no purpofe; and after all other helps have been tryed in vain.

Phyficians,

PREFACE.

Phyficians, who have feen many confumptive cafes, muft know, how feldom thole are cured, who fpit up afhes= coloured matter; where there is but a flight degree of inflammation attending that appearance, the confiftence of the matter is fooner mended, and the ftrength of the patient reftored by the use of the hemlock, than by that of any other medicine.

In two cafes of a confirmed marafinus, unaccompanied with fever, where the patients had become abfolute fkeletons and were reduced to the greateft degree of weaknefs, a compleat cure was obtained by the hemlock, after affes milk, with every other help, had been tryed ineffectually for the one; and the living upon womens milk with the advantage of the patients fucking it herfelf, from the breafts of two healthy nurfes, had been tryed for the other, without any benefit.

In this last, befides taking the Extract of the hemlock, the belly was twice a day

viii

day fomented with a ftrong decoction of the herb.

I have given the hemlock in feveral cafes of the fame kind, without any good effect, but I never faw any hurt from the use of it, except where there were confiderable marks of inflammation."



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T R E A T I S E ON THE K I N K C O U G H.

A

CHAPTER I.

Of the fynonymes; definition; description; and prognosticks of the kinkcough.

§ 1. The Synonymes.

PERTUSSIS. Cullen. Syn. Nos. gen. 53. Sydenham. Oper. fect. iv. c. 5. Huxham de aere ad ann. 1732. Tuffis puerorum convulfiva. Sauvages. Nofolog. Method. Cl. V. Ord. I. gen. v. fp. 17. Willis. Morb. convulf. c. 12. Ejufd. Pharm. Rat. P. II. Sect. I. c. 6. Sydenh. lib. cit. paffim. Ejufd. Proc. B integr.

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integr. Burnet. Thefaur. Med. L. xvii.
Sect. xx. § 4. Harris de morbis acutis infantum paffim. Hoffman iii. p. iii.
C. Morton. Differt. b. Theod. Forbes.
Differt. inaug. Home Princip. Med.
p. 121.

Tuffis ferina. Sauvages. 1. c. fp. 10. Hoffman. 1. c.

-----ftomachalis. J. J. Waldfchmidt. Prax. Med. caf. 23.

----- quinta vel quintana. Ballon. Epid. et Ephem. L. II.

- Architoux des enfans. Hecquet de la medecine des pauvres. Tom. ii. p. 306.
- Coqueluche. Lieutaudt. Precis de la medecine, p. 685. Brouzet. Effai fur l'education.

Kinkcough. Edinb. Medical Effays. Biffet's Medical Effays, XV.

Chincough or hooping cough. Burton's Nonnaturals, p. 345. Allen's Synopf. §. 1533. Millar's Obfervations on the Afthma, &c. Hillary's difeases of Barbadoes. Edit. 2. p. 45. Armstrong's difeases

difeafes of infants. Edit. 2. p. 101. Morris. Lond. Medical Observations, iii. art. 27. Fothergill, ibid. art. 30.

§ 2. The Definition.

The kinkcough may be defined a quick and numerous fucceffion of violent fhort coughs, followed by a long, ftrait, and generally fhrill infpiration; which coughs and infpiration are repeated without intermiffion for many feconds, or even fome minutes, and often terminate in vomiting of phlegm.

I have faid that the kinkcough is generally attended with a fhrill infpiration; becaufe it fometimes occurs without that fymptom. Such a defect conflitutes a variety of the difeafe, which may properly be denominated, The imperfect Kinkcough.

§ 3. The Description.

The kinkcough begins like a common cold, affecting the patient with laffitude, head-ach, tendernefs and waterinefs of

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the eyes, fneezing and running at the nofe, hoarfenefs, fore throat, a fhort dry cough, thirst, loss of appetite, &c. After these symptoms have continued for a few days, a week, a fortnight, and fometimes three weeks, the kinks, or hooping fits, oppressed respiration, and feverishness, come on; even sometimes after it hath been thought that the child was recovering from what was taken to be a common cold: and there have been inftances where hooping was one of the first fymptoms. Sometimes the patient is feverish from the beginning of his illnefs; commonly the fymptoms of fever begin at the fame time with the hooping, but often the child is free from fever during the whole progrefs of the diforder. Though the appetite is bad at first, yet in the course of the difease it is unufually craving; efpecially when the patient vomits often. Generally the patient hath a bloated, languid, wan appearance; his belly is coffive; his urine is pale, though mostly with fediment; and his limbs are cold.

After

After the kink comes on, it returns in fits, attacking fometimes every hour, every half hour, or oftener; and at other times, not oftener than once in two, three, or four hours. These fits are pretty exactly periodical. During the paroxyfm, the face and neck are fwelled and red, and often livid; the head is distracted with pain, the eye-lids are puffed up, the eyes appear as though they would ftart out of their fockets, the tears trickle down, the pulfe is accelerated, the whole body is in agitation, and there feems to be great danger of fuffocation till the expectoration or vomition of phlegm takes place; upon which, the fit either terminates immediately or foon after, to the great relief of the dyfpnoea and other fymptoms. But fometimes in the fit, the whole body becomes rigid, and the patient fwoons, and hath a cadaverous appearance: he then gradually recovers his breath by fighs and fobs; and finally comes to himfelf, for the most part, by fickness and vomition, The B 3

6

The difcharge in this difeafe, though generally of a flimy confiftence, is fometimes thin and watery.

A difcharge of blood from the eyes, nofe, lungs, or ftomach, relieves the fit. Sometimes the urine and ftool pafs off involuntarily, with the like good effect. The fits are commonly worst in the night. In bad cafes the fits are fevere in proportion to the intervals between them: The fit is very apt to come on immediately after a full meal, or upon drinking any thing cold, or upon going into the cold air, or upon quick motion, or upon any remarkable agitation of the fpirits. Vomiting most commonly fucceeds a fit when the ftomach is full. Infants that cannot fpit off, and therefore must fwallow what they expectorate, are more fubject to vomiting than children more advanced.

The patient is commonly forewarned of the approach of voluntary paroxyfms by fome particular fymptom : fometimes by head-ach, fometimes by pain in the 2 breaft;

breaft; at other times, by a thrilling fenfation, as if a fubtile vapour was afcending from the feet to the breaft; but moft commonly by a particular tickling or creeping fenfation, either at the pit of the ftomach, or within the breaft, or at the top of the windpipe. Thefe fymptoms generally laft fome minutes, often above a quarter of an hour, and fometimes for hours together before the fit comes on. Children of all ages, while thus forewarned, obflinately refuse both meat and drink, and otherwise ftrive to keep off the paroxyfm.

A child not three months old, has been obferved, on the immediate approach of the fit, to fhrink as if terrified, to clap a hand on each temple, and to prefs its head againft its mother's bofom. Children that can walk endeavour, under the fame terrifying apprehenfion, to catch hold of the neareft firm fupport, or cry to fome by-ftander to catch hold of them : which inftinctive precaution keeps them from falling; and feems alfo to enable B 4 them

them to go through the fit with more eafe.

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The natural courfe of the kinkcough is ufually about three months: but a cough often remains for a long time after the kink is gone. And the kink is even for fome time very apt to return from accidental caufes; as catching cold, overloading the ftomach with improper food, too great an exertion of the ftrength or fpirits, and the like: but thefe relapfes do not continue long.

When the difeafe is going off favourably, the paroxyfms become gradually milder and return at larger intervals, the vomition ceafes, and the expectoration, from being clear and flimy, turns white and lefs vifcid. The limbs alfo recover their natural heat, the fkin becomes foft and moift; and the belly, open and fometimes lax. Befides, the patient improves daily in flefh, ftrength, and complexion.

When the kinkcough terminates unfavourably, it is owing either to the violence of the fits, or to the length of the diforder.

The

9

The patient is either fuffocated, or dies convulsed in the fit.

A fatal apoplexy is fometimes the confequence.

Inflammation and fuppuration of the brain have proceeded from the fame caufe.

We also read of palfy and loss of memory, as having arisen from violent hooping fits.

Ruptures, and a coming down of the body frequently proceed from this caufe.

There have even been inftances of a hump-back from those violent coughing fits.

These are the chief unfavourable terminations of this disease from the paroxysms in children.

In women the hooping fits have often produced abortion.

Finally, those fits are faid, all other circumftances being equal, oftener to occasion inflammation of the lungs, and its confequences, in adults than in children.

When

When the kinkcough is protracted beyond its ufual courfe, the flefh and ftrength are much exhaufted; and the lungs, larynx, &c. are either ulcerated, in confequence of inflammation, and the patient dies confumptive; or at beft, he becomes afthmatick, rickety, or fcrofulous.

§ 4. The Prognosticks.

When the fkin is moift, the limbs warm, the belly natural, or perhaps more open, and the patient expectorates, or vomits plentifully, there is great reafon to believe that the difeafe will terminate favourably.

On the contrary, when the limbs are cold, or unufually hot, the fkin dry, the belly coftive, and the patient neither expectorates, nor vomits in the fit, a bad prognoftick is formed.

Frequent hæmorrhages, though they relieve the fits, yet they generally protract the difeafe, and injure the habit of body.

Some

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Some hæmorrhages are now and then of fatal tendency; as the pulmonary, by bringing on a confumption. And perhaps the apoplexy arifes ofteneft in this difeafe, from an effusion of blood in the brain or within the fkull.

The kinkcough hath often proved of the worft confequence to patients liable to the epilepfy, or other diforders of the brain.

It is also particularly hazardous to fuch as have weak lungs.

The kinkcough, in a conftitution weakened by a preceding difeafe, hath been found always dangerous, and often fatal.

When the kinkcough is complicated with another diforder, it is, all other circumftances being equal, more hazardous than when fingle and by itfelf.

Worms generally add ftrength to the difeafe.

The dyfentery protracts the kinkcough, and renders the event very doubtful.

When

When the kinkcough is joined with the meafles or fmall-pox, it is very dangerous.

When the kinkcough is complicated with peripneumonick fymptoms, even abstracted from cutaneous eruptions, it is very dangerous; and becomes fatal from a flight error in practice.

These prognoflicks, according to the common methods of cure, are uniformly just. A more fuccessful treatment of the difease will no doubt afford feveral exceptions as to danger. Of these fome inflances will occur in the sequel of this difcours. I now proceed to inquire into the nature of the kinkcough.

CHAP. II.

Of the nature of the kinkcough.

A UTHORS are filent whether the kinkcough be the endemick of any particular country. I fhall afterwards venture my fentiments on this head. Meantime we are certain, that it is an epidemick difeafe chiefly incident to children; and that it fpreads like fmallpox and meafles, only amongft fuch as never had it before. Though it is to be met with at all feafons of the year; yet it prevails moft commonly in fpring and autumn. It not only precedes, or fucceeds other epidemick difeafes, but is often complicated with them.

Sir John Floyer hath obferved the kinkcough complicated with an intermitting fever. Doctor Hoffman takes notice of its being complicated fometimes with the thrush, and sometimes with the measles. Doctor Biffet hath often seen

it

it attend the miliary fever. Doctor Huxham's kinkcough of the year 1744, is a conjunction with pulmonary inflammation : as the amphimerina tufficulofa of Sauvages is with worm-fever. I have feen the kinkcough conjoined with the meafles, with pure peripneumonick fymptoms, with worm-fevers, with an ague, and with a dyfentery. Every practitioner hath feen the kinkcough combined with dentition : which is not to be wondered at, fince it attacks children of all ages without exception. These feveral complications conftitute fo many varieties of the kinkcough, which merit the most attentive confideration of phyficians.

The kinkcough is contagious : for all pre-difpofed perfons more readily catch the diforder, by having free intercourfe with those who labour under it. And it is certain, that it can be conveyed like other species of infection from one family to another; from town to town; and even beyond feas, by people who are themselves not subjects of the infection. This

This difeafe, however, is not quite fo infectious to adults that have escaped it in their childhood, as either smallpox or meafles.

We find, that the kinkcough is both an epidemick and contagious difeafe. The preceding chapter, together with other well established observations, afford principles for going still farther; even fo far, I hope, as to enable me to determine with certainty its true nature.

It is observable, that fever is not effential to the kinkcough; and that between the paroxysins the patient hath little or no complaint. I therefore conclude, that it is not an inflammatory difease. Whenever of course the kinkcough hath concomitant inflammatory symptoms, these must take their rife either from some peculiarity in the constitution of the patient; or from some other difease with which the kinkcough happens to be complicated; or from some error in the nonnaturals; or from some other adventitious cause.

The kinkcough, by its natural courfe, lafts fome months; and returns in fits, which have generally been obferved at equal diftances. Much bleeding and purging have been found hurtful in this difeafe. Even natural hæmorrhages, though they relieve, yet have been found to protract the diforder. On the contrary, the most famed remedies are gentle vomits, ftomachick laxatives, paregoricks, and ftimulating antifpafmodicks. Befides, the kinkcough has been fuddenly carried off by a fright. Finally, diffections of fuch as have died early in the difeafe have difcovered nothing preter-fidered, I do not hefitate to pronounce, that the kinkcough is a nervous fpafmodick difeafe.

To conclude, there is an uncommon fecretion of flime or mucus in the kinkcough; and the free difcharge of this out of the body always mitigates the fymptoms. Befide, in proportion as the quantity of flime diminishes, the fits become

Having thus, I hope, pretty evidently inveftigated the nature of the kinkcough; order obliges me next to examine into the feat of this difeafe, a fubject of no lefs importance.

arguinents in favour of their feveral opi-

by experience, that accuments are not the lefs fallacious for ferming very planfible. For example, diffections are no doubt a noble fource for alcertaining the matter and frac of diffettes; and it is much to be repreted? that they are not more frequently practified with those views. The first diffettions mult be carried on by perfons of nice mobiaffed

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Of the feat of the kinkcough.

Now enter upon a fubject still more contraverted than the former. Some authors place the kinkcough in the lungs; fome, in the flomach; others, in both; while again others infift, that the proper feat of this difeafe is in the top of the wind-pipe and gullet : and all advance arguments in favour of their feveral opinions, which appear to them irrefragable. However, it hath been often found by experience, that arguments are not the lefs fallacious for feeming very plaufible. For example, diffections are no doubt a noble fource for afcertaining the nature and feat of difeafes; and it is much to be regretted, that they are not more frequently practifed with those views. But fuch difquifitions must be carried on by perfons of nice unbiaffed judgment;

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judgment; fo that the proper diffinctions may always be made between caufe and effect: otherwife they will be fully as apt to confirm error as to effablifh truth. This remark is not mifplaced here, when we confider that no lefs a perfon than Doctor Aftruc, from obferving, upon diffecting the bodies of fuch as died of the kinkcough, ulcerations on the larynx and pharynx, concluded that the difeafe was an inflammation of those parts.

Though I cannot agree with this learned author concerning the nature of the kinkcough; yet as to the feat of it I pay equal deference to his opinion, and to the fentiments of other writers on the fubject. I think, with him, that the larynx and pharynx are affected; with Willis, that the lungs are affected; and with Waldfchmidt, that the flomach is affected. I take the liberty, however, to differ from those authors in this, that I do not believe any of the organs mentioned to be primarily affected, that is, to be

the principal feat of the diforder. Indeed that continuous membrane which invefts the whole tract of the first passages and lungs internally, feems, in general, to be first affected by the miasms or contagious particles of all epidemick difeafes; though each particular infection acts more specifically on one part of it, than on another. Thus anginous complaints chiefly affect the membrane of the throat; the meafles, that of the lungs; the fmall-pox, that of the flomach; agues, that of the duodenum, &c. In like manner, it is highly probable, that though the miafms of the kinkcough may perhaps affect, the whole of this widely extended membrane, by fympathy or otherways, yet fome part of the inteftinal canal is the principal feat of the difeafe.

I fhall draw arguments in favour of my opinion; firft, from the nature of fuch habits as are fubject to the kinkcough; fecondly, from the nature and cure of the kinkcough; thirdly, from the nature of fome difeafes confequent upon

2

upon the kinkcough ; fourthly, from the analogy that the kinkcough bears to other difeafes that are generally allowed to have their feat in the inteffines. I shall treat of each of these particulars in order. In the first place, it feems that the inteffines of children are more irritable, and, by confequence, more eafily affected than any other part of their tender bodies. For this reafon it is, that the difeafes of children, even the most remote from the inteffines, affect that canal. Thus we fee dentition almost constantly produces a diarrhæa, colick pains, and flatulency. On the other hand, an irritating caufe in the inteffines most certainly can affect the whole or any part of the nervous fystem. Doctor Harris has proved that almost all the difeases of children depend on an affection of the first passages. And the hysteria and raphania, two difeafes evidently of the first passages, though the former feems chiefly to be feated in the ftomach, and the latter in the guts, afford melancholy

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proofs

proofs of the direful fymptoms that can be excited in every corner of the body from that origin even in adults. If it be afked why an inteffinal affection should produce the kinkcough? I refer the folution of this queftion to those who shall undertake to explain the manner of acting of the contagious particles of any difeafe whatever. We need only obferve here, that if a caufe fuch as worms, lodging in the inteffines, can produce a cough, and even general convultions; we may fuppofe another caufe exifting in the fame bowel capable, under certain circumstances, of producing the kinkcough. The one cafe feems equally as intelligible as the other; although perhaps we fhall never be able to explain the manner in which either is brought about ; any more than why hemlock produces a vertigo; indian pink, a particular motion of the eyes; mercury, a falivation; cantharides, a ftrangury, &c.

· Secondly, as to the arguments deducible from the nature and cure of the kinkcough

cough to prove that it is an inteffinal affection, it is obfervable, that those children pass most easily through the difease that have an open belly; that vomits are most ferviceable, when they render the body foluble at the same time; and lastly, that such patients bear the action of vomits, much better than purges; all which circumstances ftrongly point out that the inteffines, and not the stomach, are the set of the kinkcough.

Thirdly, as to the difeafes confequent upon an obftinate kinkcough; thefe are chiefly the kings-evil and rickets. It is needlefs as well as improper to enter upon a long difcuffion of thefe maladies; as a few general remarks on each will fufficiently anfwer the prefent purpofe.

It is univerfally allowed, that the kingsevil is chiefly feated in the conglobate glands; and probably those of the mefentery are first affected. This much is certain, that an enlarged belly and colick pains are among the first fymptoms; and diffections prove, that the glands of C 4 the

the mefentery are always obstructed in the kings-evil. We likewife obferve in the rickets, a preternatural largeness of the belly, and other fymptoms that point out a primary affection in that region. Befides doctor Heister, after diffecting fix or feven bodies that died of this difeafe, mentions among the most usual appearances, that the belly was too large, from the inteffines being diftended to twice their natural bulk with air; that worms and a deal of mucus were in that bowel; and that the glands were obftructed and hard, particularly those of the mefentery. We may fafely conclude that the ftomach was always in a natural ftate; as this accurate anatomist fays nothing of it,

It would therefore feem, that, when the kinkcough continues for a long time, the inteffines lofe their contractile power : on which account, as well as from the flate of the fluids taken up by the abforbent veffels, obftructions are formed in the correfponding glands of the mefentery;

tery; and fo either of the two mentioned difeafes is produced, according as the conflitution happens to be pre-difpofed.

Fourthly, but what in my opinion tends more than any thing to confirm that the kinkcough hath its feat in the inteftines, is that the returns of the paroxyfms have generally been obferved both by phyficians and others to be periodical; from which, as well as from other circumftances, fome of the beft writers on the fubject have been led to draw a parallel between this difeafe and intermittent fevers. Now, though it be still a matter of difpute, where intermittent fevers have their proximate caufe; the most probable opinion is, that it lodges in the guts. It deferves indeed to be ferioufly enquired into, whether all intermittent diftempers do not depend on a primary affection of that canal. It is exceedingly remarkable, that even intermiffions of the pulfe prognofticate with great certainty a future diforder in the inteffines. I have met with fome fingular inter-

intermittent difeafes which undoubtedly had their feat in that bowel.

A boy, about two or three years of age, was afflicted with a pain in his belly, which came at a certain hour every night, whether he happened to be afleep or awake; and continued for fome hours fo violent as to make him cry almost inceffantly. During the fit the pulfe was natural. In the intervals he made no complaint. Several other means having failed, a fomentation of rue, wormwood, and other anthelminthick herbs applied to the belly, on the access of the fit, gave immediate eafe, and brought on a loofenefs which carried off the colick, and a great many worms at the fame time, The colick never returned. The worms were cured by the ufual means.

Another boy about a year or two older than the former, made an amazing quantity of urine every night, as regularly as the clock ftruck eight. This diforder afterward fhifted, and returned at ten with the fame regularity. If he was then

then afleep, the urine went into the bed: But if he happened to be awake, he filled a large chamberpot with what he then made, and in a few hours after. The urine, when fo profufe, was without fmell or colour. He had a wan fickly look, but complained of nothing. His belly was large and hard. He was of a delicate, irritable habit. His pulfe was always calm. The cure of this diforder was accomplifhed by purging and cordial medicines. The ftools were very offenfive, dark coloured, and flimy.

I shall add one more cafe, not only because it relates to our argument; but also because it is but little, if at all taken notice of by authors. And as the method of cure differs from that commonly recommended in analogous cases, it will be an excuse for the length of it in this place. The case is as follows.

A middle aged gentleman, of a ftrong habit of body, having had occasion to be much abroad in the fields during bad weather, was feized with pain and inflammation

flammation of his left eye. For the first week the diforder was inconfiderable; fo that he took little notice of it. The fecond week the pain was worfe, and intermitted regularly. At the end of the third week, when I was called, the pain was become fo violent as to be infupportable : but still there were complete and regular intermiffions. The fit generally came on about two or three in the morning; and when awake, he was fenfible of its approach, by heat in his forehead, heat, pricking pains, and weeping of his eye, and an aching pain on the left fide of the upper jaw, which feemed particularly feated in one of the grinders; and there he thought was the origin of all his pain. Thefe fymptoms grew gradually worfe; till at laft the whole left fide of his head, and particularly the eye, became affected with fuch exceffive pain, that he defpaired of living. He faid his eye felt to him, as though a perfon was pulling it out of his head, by means of a hook. The pain always went

went off inftantaneoufly, and generally about nine in the morning, afterwards he was quite eafy, except as to a little heat in the eye, continuing in good fpirits for the reft of the day, and till the return of the paroxyfm. There was no fwelling, and the inflammation was not great. The eyelids internally, and the white of the eye, were inflamed. The lucid cornea was a little obfufcated. The eye could not bear the light. He faw very little with this eye; and that through a mift. He had had very little fleep from the beginning of his diforder. He was even afraid of fleeping, becaufe he generally awaked with the pain. He had been bled, and had ufed other evacuations; as also great quantities of the peruvian bark both internally and externally to the affected eye. He never had been attacked with an ague, but once, and that feveral years before, when he had two violent fits with the interval of a day and a night between them : but did not remember whether he had used any means of cure.

May

May 19. Being called to day, I found that he had paffed a very bad night, and that his pain was exceffive. He had had eight ftools yesterday from a dofe of Glauber's falt and manna.---I ordered two drams of polychreft falt to be diffolved in a pint of water, and to be taken at three draughts, with an interval of two hours between each, beginning immediately; and two leeches to be applied to the affected eyelids .- In the evening he was much better. The leeches had bled freely. He had three ftools. The eye was to be fomented often with warm milk and water ; and he got thirty drops of laudanum in a draught at bed-time.

May 20. He lay eafy all night, but flept very little. What fleep he had did not occafion pain. About three in the morning he had fome pain for a quarter of an hour. To day the folution of polychreft falt was repeated, which gave three ftools.—In the evening the anodyne draught was repeated. In cafe the pain fhould return, the fufpected tooth was

was to be drawn, and a couple of leeches were to be applied as before.

May 21. The pain was violent from ten to fix o'clock this morning. The drawn tooth was found, and brought part of the jaw-bone with it. The leeches bleed freely. His pulfe beat above a hundred times in the minute to day. The fomentation was continued, and the polychreft falt was repeated.— In the evening his pulfe beat feventy times in the minute. The urine had a milky colour, and deposited a light whitifh fediment. He was ordered the following bolus at bed-time :

Take of polychreft falt and vitriolated tartar, each ten grains; powder of ipecacuanha, four grains; pure opium, two grains; fyrup of fugar, a fufficient quantity: mix them.

May 22. He had a very good night, having flept for the most part, and was refreshed with his fleep. Having felt himself tender within, he chose to have no

no polychreft falt to day. The fomentation was often applied as ufual, and he had a very good day.——In the evening his pulfe beat feventy times in the minute. Having had no ftool, the bolus, with an addition of twelve grains of rhubarb, was repeated; and two drams of polychreft falt diffolved in half a pint of water, was to be taken by eight in the morning, unlefs he fhould have ftools before that time.

May 23. His feet were cold laft night; he afterward grew warm, and then fweated profusely. The fweat ceafed about five in the morning: upon which the fit came on, and continued violent for two hours. I ordered ten grains of the extract of the peruvian bark in the form of pills, and twenty drops of the acid of elixir of vitriol, in a glafs of water, to be taken immediately, and to be repeated in the afternoon.-He had a tolerable day, though not entirely free from pain, He had three very dark fetid ftools in confequence of the folution .- He was ordered CIE

ordered a draught with fifteen drops of laudanum at night, and a folution of a dram and a half of polychreft falt in fix ounces of water in the morning.

May 24. He had a very bad night with the ufual pain. Sneezing relieved the pain of his eye when violent. He was ordered twelve grains of ipecacuanha in powder for a vomit; which brought up a great deal of tough phlegm. His pulfe beat eighty times in the minute before taking the vomit, but only feventyfour times, in that fpace, after its operation .- He had four fætid dark ftools to day. The following bolus was ordered this evening. Take of rhubarb, fifteen grains; calomel, five grains: mix them with a proper quantity of fyrup, and he took an ounce of common infufion of fenna, with a dram of the tincture of fenna next morning.

May 25. He had an eafy night, but was afraid to fleep. The pain feemed as though it would have returned about four in the morning; but he had a ftool

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at that time, which he thought was the caufe of his continuing free. He took eight five-grain pills of the extract of bark, with two large spoonfuls of the following julep every two hours to day. Take of fpring water feven ounces; lemon-juice, three ounces; proof fpirit, fyrup of orange-peel, each one ounce; falt of tartar, two drams : mix them .----Having had five ftools, he got five drops of laudanum. He had a very good day, and twice flept for a little, without being the worfe .---- In the evening he complained a little of the heat, of aching and pricking pains, &c. which made him apprehensive of a bad fit. His pulse was rather full, and beat eighty-eight times in the minute. I ordered the pills and julep to be taken every three hours through the night, in the absence of a fit : but if the fit should return, the julep was to be continued without the pills, and a glyfter was to be injected, confifting of a large spoonful of common falt, diffolved in a pint of chamomile tea. A large

large blifter was also applied to the arm, and was not to be removed for thirtyfix hours. The following pills were given at bed-time. Take of the aloetic pills of the Edinburgh dispensatory, twelve grains; opium, two grains: mix them, and make three pills.

May 26. He had a pretty good night, but flept none. He did not take the bark after midnight; as he was hot, and thought himfelf not fo well about the ufual time of his becoming worfe. At feven, he had a flimy dark ftool from the glyfter .- He had a pretty good day, and flept two hours in the afternoon. He could open the affected eye in a dim light. His pulse was calm. He took eight pills and two fpoonfuls of the julep, every two hours to day .-- In the evening his pulfe beat eighty-four times in the minute. He had a small ftool. He took the pills as laft night, with an addition of four grains of the aloctic pills. If he should not have a stool in the morning, the glyster was to be repeated. Eight siliquery four hours (Dough the night,

pills of the bark with three spoonfuls of the julep were also to be taken every four hours through the night.

May 27. He had a good night, having flept for an hour together. He began towards morning to be uneafy from the want of a ftool, the glyfter was therefore given, by which he had a very plentiful evacuation, and of a better colour, though fome part of it was extremely dark. He continued low afterwards. His pulfe beat eightyfix ftrokes in the minute. The pills and two fpoonfuls of the julep, were taken every three hours to day. The edges of the eyelids were anointed with a liniment, confifting of ointment of tutty, and faturnine ointment, each equal parts, and a fufficient quantity of olive oil .---He had a pretty good day .- In the evening his pulse beat feventy-eight ftrokes in the minute. His urine was limpid with a pellicle on the top, and with a white light sediment. The fame opiate pills were ordered for bed-time; and the bark and julep every four hours through the night. The

The edges of the eye-lids were alfo to be anointed with the liniment night and morning. In mis somit wil-wide

May 28. He had a good deal of pain in the night; but flept a little. His pulse beat eighty-fix times in the minute. He had a fmall ftool this morning .- He took eight fix-grain pills of the bark, and three fpoonfuls of the julep every four hours to day .- In the evening he had a stool in consequence of a glyster. He had fome pain in his forehead. His pulse beat eighty-two ftrokes in the minute. Twenty grains of the aloetic pills, and two grains and a half of opium made up into four pills, were ordered immediately. The bark was left off; and the julep was to be continued every four hours.

May 29. He had a good night. He was very low this morning. Pulfe beat feventy-two ftrokes in the minute.-He took fix pills of the bark, and twenty drops of the elixir of vitriol every five or fix hours to day, beginning at feven in the morning. He flept for an hour a little after noon,

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noon, and without any fucceeding pain. —In the evening his pulfe was foft and beat eighty-fix times in the minute. Twenty-three grains of the aloctic pills, and three of opium were taken for a dofe this night. And the julep was to be repeated through the night as before.

May 30. He had an exceeding good night, and was quite free of pain this morning. The inflammation was abated; the affected eye could bear a little more light; and he began to diftinguifh objects with it. His pulfe beat eighty times in the minute. He had two flools.—He took the bark and elixir thrice to day.— The liniment was flill continued. A fmall blifter was applied to the nape of the neck with a view to be kept open with epifpaflick ointment. And the fame anodyne laxative pills were given at the ufual time.

May 31. He had a good night, and continued better to day. His pulfe beat eighty flokes in the minute. He had one flool.—The fame courfe was continued.

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June

June 1. He flept none after two in the morning; and he awaked with a flight fit of pain affecting his eye, gum, and the whole half of his head, which lafted fome hours.—The inflammation was lefs, but his eye watered more to day. His pulfe was foft, and beat eightyeight times in the minute. He had two ftools. The iffue difcharged well, and was dreffed twice a day. The bark and elixir were continued as before. The pills were repeated at night with an addition of half a grain of opium.

June 2. He slept little, but had no pain in the night. He had two stools. —The fame course was continued.

June 3. He had a very good night. The inflammation and obfuscation diminished; and he bore still more light with the affected eye. His pulse beat seventyfive times in the minute.—The same method was continued.

June 6. He continued to mend; and was abroad to day. The iffue difcharged properly. He was defired to take the D 4 bark

bark and elixir only twice a day. The anodyne pills were to be gradually diminifhed.

June 9. The inflammation was quite gone; the obfuscation was lefs; and he could read large print with the affected eye. It watered only towards night. He was in other respects quite well.—The bark and drops were continued. He took only half the quantity of the anodyne laxative pills last night. The same dofe was to be taken to night, and none after.

June 14. The eye continued to gain ftrength. He took no more medicines.

Doctor Morton and Baron Van Swieten, both take notice of an intermitting ophthalmy. The former has given two inftances *; whereof the one was a tertian, and the other a quotidian. Baron Van Swieten mentions only a quotidian †; and it was cured by the bark, after all

* Pyret. Exerc. i. cap. ix. Hift. 5, 16. + Comment. Vol. ii. p. 534.

other

other means had failed. Doctor Morton cured his quotidian ophthalmy by procuring two or three ftools every other day; and by giving the peruvian bark on the intermediate days; and by the ufe of anodyne topicks to the affected eye. For the other patient he ordered blooding, anodynes both internally and externally, and brifk purges, chiefly with a view to bring on a genuine ague, which fhe had lately laboured under. The means fucceeded in a few days: upon which the ophthalmy diffappeared, and the ague was cured in the common way.

In the cafe which I have narrated there was no immediately preceding ague. Van Swieten's patient indeed had the fame horrible fenfation as mine when in the fit. But neither of the learned authors make any mention of a hemicrany, or pain, affecting one half of the head. I therefore muft look upon my cafe as different from any of theirs : and from the fymptoms it comes neareft to the ophthalmia choroideæ of Sauvages. It may therefore

therefore be called ophthalmia choroideæ quoti-diana, or quotidie intermittens.

The following method of cure feems well adapted to intermitting ophthalmies in general.

First let blood; in a few hours after give a vomit; in the evening apply a large blifter between the fhoulders; and next morning give a purge of Glauber's or polychreft falt. In the evening after the operation of the purge, give pills composed of a scruple of aloctic pills and a grain of opium. These pills must be repeated every night, or rather fome hours before the approach of the fit, gradually increasing the opium, fo that the pain may be effectually warded off; and giving in the mornings, when neceffary, a folution of polychreft falt in water to quicken the operation of the laxative, fo as to procure two or three ftools daily .--A finall quantity of the peruvian bark, with elixir of vitriol, may be given twice a day just to support the ftrength. But perhaps

perhaps the elixir given in chamomiletea will in most cases be fufficient.-----A couple of leeches may be applied near the part affected, at any time when the inflammation feems confiderable .-----The room fhould be cool, and as much darkened as to render any clofe covering to the eye unneceffary .---- Warm milk and water may be often applied to the eye with a fponge. And when the fymptoms are diminished, a little of the liniment mentioned above, with the addition of two grains of camphire to the whole quantity, may be used every night and morning .-- The diet fhould be cooling and diluting; as finall broth gruel, cheese whey, barley-water, toaft and water, &c.

This method fhould be continued till the bowels are properly cleanfed, which you can judge of, by examining the ftools from time to time. And in general, it will probably turn out, as in the cafe before us, that the fits will gradually abate, as the ftools acquire a better colour, till

at laft good health and natural ftools return at the fame time. If after all the difeafe fhould continue, it will be then proper, with the illuftrious Baron, to attempt the cure by a plentiful ufe of the peruvian bark, in the fame manner as in agues. Such a practice is then fafe, and perhaps will always fucceed : but if attempted early in the difeafe, it will be attended with great uncertainty, if not with danger. But to return from this digreffion.

Under this head of analogy fome inteftinal difeafes, in fo far as they are of a contagious nature, ought not to be paffed over in filence, as it will be found that they add weight to my opinion concerning the proximate caufe of the kinkcough.

Sir John Pringle has obferved, that a dyfentery arifing from what is called catching cold, fpreads afterwards by contagion. The fame remark every experienced phyfician must have made, on a very analogous difease, the putrid fever. Hence

Hence we infer, that this bowel is the most likely place for generating an infectious difease: which inference is further supported by the following reasons.

First, a great variety of humours is blended together in the inteffines: fecondly, on account of the large extent of that bowel, accumulations are more generally formed, and lodge alfo for a much longer time in it than in any other part of the body: thirdly, thefe heterogeneous lodgments must produce various unnatural ferments, which are no doubt the fource of many difeafes, and probably give rife to most contagious ones, and among the reft, to the kinkcough. Accordingly the best writers on the dyfentery have found, that the ftools are contagious. And Doctor Zimmerman even afferts, that the contagion of this difease lies chiefly in the flools. In a word, the inteffinal tube is fo often to blame as a morbid caufe, that it amply deferves the difcuffion of fome able and experienced pen. among my inclose stom I hope,

I hope, from what has been faid, it is rendered highly probable, that the feat of the kinkcough is in the guts. With regard to the opinions of former writers on this subject, no formal refutation seems neceffary; fince the arguments, adduced in support of one, must necessarily invalidate the reft. I shall therefore only obferve further, that the notion of the lungs being the feat of the kinkcough is very improbable; first, because the generality of pectorals do more harm than good; fecondly, becaufe pulmonary coughs, if not dangerous, and especially in young fubjects, terminate much fooner than the kinkcough; thirdly, becaufe I do not know that the rickets or fcrofula, though often the caufes, were ever the effects of a pulmonary cough.

As to the opinion of this difeafe being feated in the flomach; I fhall add to what has been already advanced in refutation of it, that an immediate affection of that bowel would probably be attended with more violent fymptoms, as pain, ficknefs, faintnefs,

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faintnefs, &c. none of which are ever obferved in the kinkcough. Befide, we can never fulpect any intermitting diforder of having its feat in the ftomach, when we confider, that vomits render obfcure intermiffions more diftinct. It would feem, that the interfering caufe, a foulnefs of ftomach, being thus removed, the pure inteftinal fymptom of intermiffion becomes more evident and diftinct.

reating it to be an unefinal affection. Heving it to be an unefinal affection. Weare now naturally led to inquire into the cardes which produce this difeate. The cardes of a dife fe are utually divided into remote, or predifpoling, and former are inherent in the confliction of the patient; the latter are adventition, and proceed from the air, foil, way of from the differ the remote, or nects and proceed from the air, foil, way of from the differ the remote, or nects. then a different in the remote, or nects. the field is of the latter are adventition, and proceed from the air, foil, way of the faults can of themfelves produce they conflicte when they meet together,

CHAP. IV.

Of the causes of the kinkcough.

Have given a full and true defcription of the kinkcough, and from that and other faithful obfervations, have endeavoured to eftablifh the true nature of the difeafe. Befides, I have delivered my reafons at confiderable length for believing it to be an inteftinal affection. We are now naturally led to inquire into the caufes which produce this difeafe.

The caufes of a difeafe are ufually divided into remote, or predifpofing, and into occafional, or exciting caufes. The former are inherent in the conflitution of the patient; the latter are adventitious, and proceed from the air, foil, way of life, &c. Neither the remote, or occafional caufes can of themfelves produce a difeafe : but when they meet together, they conflitute what is called the proximate

mate caufe. This proximate caufe is the very effence of a difeafe; becaufe while it is prefent, the difeafe is prefent, and when it is removed, the difeafe alfo is removed.

We fee of what confequence it is, to be acquainted with the proximate caufe of a difeafe; fince we cannot be fuppofed to underftand the true nature of the one, while we are ignorant of the other. Indeed, it is chiefly owing to our ignorance of proximate caufes, that the practice of phyfick is, in too many inflances, ftill fo very defective. But to return to my defign.

As the kinkcough is peculiar to childhood, what characterizes the conflictution at that time of life, is molt probably, the chief predifpofing caufe of this diforder. Now we know, from anatomy, that the nervous fyftem bears a much larger proportion, to the other folid parts in children, than in adults. All their folid parts are likewife of a much fofter texture, and of a much quicker growth. On thefe accounts chiefly, the human body is then endued with more irritabi-E

lity, than at any future period of its exiftence. This irritability is, no doubt, a principal reafon why infancy is fo very fubject to nervous maladies, and among the reft to the kinkcough. Hence alfo we fee why adults, that have efcaped this diftemper in their infancy, are feldom affected with it, and why those that happen to be affected with it, are chiefly women, and perfons of a delicate tender habit.

But there are other caufes that add to this conflictutional irritability, and by confequence, render the body ftill more liable to the kinkcough.

Thefe are, firft, a hereditary pre-difpofition to fome fpafmodick diforder; fecondly, the actual exiftence of fuch a diforder; thirdly, a redundancy of vitiated humours in the ftomach and guts; fourthly, worms; fifthly, dentition; fixthly, catching cold; and feventhly, acute difeafes in general. All thefe, as they undoubtedly add to the irritability of the fyftem, muft of courfe be confidered as fo many pre-difpofing caufes. It is for

for this reafon, that we commonly find the kinkcough immediately preceding, or fucceeding fome other diforder, or actually complicated with it.

Hitherto we have only flown why the early flage of life is most liable to the kinkcough, by pointing out the chief pre-difposing circumstances that must render it fusceptible of a nervous difease, fuch as the one in question. I now come to the exciting powers, commonly called the occasional causes.

These may be resolved into one, namely, infectious mias capable of generating that disease and no other.

Though it be very evident, that there are fuch fpecifick miafms; yet they never perhaps can be made the object of our fenfes. However, an enumeration of their effects will fufficiently point out their true nature. Thefe miafms act upon the nervous power, and fo increafe the irritability of the fyftem; as children are more fufceptible of colds during that difeafe than at any other time; and are befides uncommonly fretful and ca-E 2 pricious,

pricious, even in their beft intervals. Thefe miafms, no doubt, mix with all the humours: but, fo far as our fenfes can difcover, act chiefly on the mucus. We judge, that the mucus is affected; becaufe an evacuation of it out of the body always palliates the difeafe; and that the inteftinal mucus is principally affected; becaufe an evacuation of it, by ftool, gives the moft fenfible relief.

From what has been faid, it appears, that the kinkcough anfwers to the definition of a peftilential diforder, fuch as the plague, fmall-pox, or meafles; fince its miafms are contagious, and act chiefly on the nerves. The kinkcough has this likewife in common with thefe other difeafes, that a moift fkin is one of the moft favourable fymptoms. It differs in fo far, that it is not generally attended with any cutaneous eruption; though a flight affection of this kind hath fometimes been obferved.

Having thus, I hope, fufficiently cleared up the nature of the contagious particles

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cles, which give rife to the kinkcough ; I next proceed to inquire into their origin.

We have no very early accounts of the kinkcough: notwithstanding of which, no author, fo far as I know, pretends to fay, that it is a new difease. Very probably it hath always prevailed in these · kingdoms: and this peftilential diforder may be the growth of Europe; as the plague, fmall-pox, and meafles certainly are, of much warmer regions. I am led to think fo, becaufe the infection of the kinkcough is much lefs active, than that of any of the other difeafes mentioned. Befide, according to Doctor Hillary's obfervation, the illand of Barbadoes was not vifited by the kinkcough for many years; a circumstance which perhaps has not happened in any European island, though inferior to the American one as to extent, and very greatly fo, as to population.

If it be granted that the kinkcough is endemick in Europe, I would endeavour

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to account for its contagious particles in the following manner.

Under certain circumftances of the air, &c. the various humours composing the inteftinal contents, may undergo an uncommon degree of fermentation. The fermenting mass, by its unnatural flimulus, will produce a vitiated secretion into that bowel. And this additional mixture will probably render the whole more and more active and exalted, till at length there are generated particles of a deleterious nature, operating on the mucous glands of the intestines in particular; whereby that secretion is increased and vitiated, and so the kinkcough is produced.

The kinkcough being once produced, afterward fpreads by contagion; in the fame manner as a dyfentery, once produced, multiplies through its own baneful influence. Hence we fee why fome authors affert that this difeafe has no dependence on any known qualities of the air; becaufe that they have obferved it to prevail

prevail under all fenfible variations of that element. In reality, when we confider the length of the difeafe, and the fluctuating flate of the atmosphere, we must agree with those authors fo far as to be of opinion, that it feems no further neceffary than just to give being to the fpecific miafms. If we can once fuppofe them formed, we can readily conceive that the difeafe will creep, by its contagion, over a very extensive country; and even be conveyed beyond feas into very remote regions. This is quite confiftent with observation : for the kinkcough fpreads by very flow degrees; in fo much that it is very common to fee it rife in one village, while another, not above a mile diftant, is entirely free from the diforder. Now if it depended, like many epidemick difeafes, on the flate of the atmosphere, it would occupy a much greater tract of country at once, and very probably terminate alfo much fooner. This doctrine is not favourable to the opinion, that a change of air is ferviceable E 4 nature.

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in the kinkcough. Indeed, fo far as my experience extends, I have feen no good from it. And even, if a change of air was really found to be fo very ufeful, as commonly alledged, the good effect would most naturally be accounted for, from the common principle of its being ufeful in many difeases, particularly those called nervous.

It may be asked, as the kinkcough depends only upon the effects of a fermentation in the guts, why children should not be afflicted more than once with it ? This is a difficult queftion ; but it affects every known fuppofition as much as the one here advanced. The most probable answer that occurs to me is, that fuch a change is induced in the conftitution by the difease, as, for a confiderable time, renders the body incapable of further infection. In more advanced life, the conflitution, from a great variety of concurring caufes, is much altered; and, by confequence, predisposed to difeases of a very different 4 nature.

nature. And as an occasional cannot, of itfelf, produce a difease, so we see the reason, why adults in general are proof against the infection. And, among those that happen to catch it, we shall find such deviations from what is natural to the constitution, at that time of life, as will tend to illustrate and confirm the theory advanced in this chapter.

From what has been faid, it is at leaft to be hoped, that I have difcovered the true nature of both the pre-difpofing and occafional caufes of the kinkcough; fince I have not only a priori, but likewife a posteriori, come to the fame determination on these important points, according to the following aphorism of a celebrated pathologist. Ita demum methodo fynthetica pervenitur ad cogniționem caufæ morbi, quam illa (seminia morbi et potentiæ nocentes) junctim constituunt. Quin et eâdem opera, a priori, quod aiunt, ernitur natura morbi ; ut, instituta collatione, eadem per methodum analyticam inventa comprobari, aut error in alterutro argumentandi

argumentandi genere commiffus detegi ac corrigi poffit*. "Thus at length we have attained by the fynthetick method a knowledge of the proximate caufe of the difeafe; which proximate caufe is produced by a conjunction of the remote and occafional caufes. Befides, the nature of the difeafe is thus inveftigated from reafon : fo that, by comparing this theory with the refult of our inquiries upon the fame fubject by the analytical method †, and finding them to agree, our doctrine is eftablifhed; or, if any error has been committed according to either method, it is thus found out and corrected."

* H. D. Gaubii Institut. Patholog. § 80. + See Chap. 2d above.

and bi, quam illa (faminia merbi et peter-

et eldem opera, a priori, quod ainnt,

venta comprobaris, ant error in alteratro

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of the kink VIS. 9 A HID ficians.

quacks are offener confuiced, on account

The history of hemlock as a cure for the kinkcough.

CUCH is the hiftory of a difease, for Which every author afferts that we have as yet no certain and effectual cure; nor any one medicine that ought to be used in many cafes that occur. Indeed, the multiplicity of indications in the methods of cure for many difeafes is the best proof that there is more of art than nature in them; and that, fooner or later, they must all give way to a more specific treatment. In no diforder is the officioufnefs of art more obvious, than in the one at present under confideration : and, of course, every method hitherto followed is at best but palliative. This unfuccefsful treatment is probably the reafon, why Doctor Willis's observation holds true even

even in our times, that old women and quacks are oftener confulted, on account of the kinkcough, than phyficians. It is very rare that a phyfician is confulted, except when the difeafe is manifeftly very dangerous, and the child likewife of great consequence. Some very obstinate cafes of kinkcough having come under my care, I had it in my power fully to experience all the common remedies; and to afcertain how little was to be expected from them. I therefore confidered it as my duty to attempt fome new method: and being convinced that the difeafe was spafmodick, and that hemlock was one of the best anti-spasmodicks, I came to the refolution, as foon as an opportunity should offer, of making a trial that promifed much good, and could not poffibly do any harm. The first cafe that prefented to me was the following.

CASE I.

Mrs. Hodgkinfon, aged 30 years, of a weak thin habit, and the mother of feveral

feveral children, had laboured under the kinkcough for a fortnight when I vifited her. The kinks were frequent, but moft fo in the night. Sometimes the fit was fo fevere as to threaten fuffocation. She fometimes expectorated a white thick phlegm, and then the fit was fhort. A fevere fit was always attended with a clear ropy expectoration. For the first four days, she vomited in the fit, and brought up phlegm, during which time she was easier.

She complained alfo of pain in her right fide, which fometimes fhot through to the other fide, and fometimes downward, fo as to imitate labour-pains. She was far gone with child; being within a fortnight of delivery. For the laft eight days, fhe faid, the child was placed higher than any of her other children ever had been. The kinkcough was then epidemick; and her own children were affected with it; but the difeafe in them was upon the decline. She herfelf never had the kinkcough before; nor had

had ever been fubject to coughs of any kind, during pregnancy.—She had been bled at the arm and purged with manna a few days before I faw her; which treatment, fhe thought, had made her worfe.

April 22d, 1768, I ordered eight grains of rhubarb with half a grain of emetick tartar to be taken at bed-time; and a blifter, for the pained part, which was to remain applied twenty-four hours.

April 24. The pain of her fide was gone. She had two ftools from the powder. In other refpects there was no alteration.

I ordered two drams of the hemlockmafs, to be divided, into twenty-four pills; whereof two were to be taken every night and morning.

The kink went off fo foon, that I could fcarce credit it; and fhe had fcarce any remains even of cough, when fhe was brought-to-bed. She had a very good time; and the child was healthy. She got no more than twenty-four pills.

In

In the year 1770, a gentleman in Scotland, my friend, having accidentally mentioned, in a letter to me, that his children were ill of the kinkcough, I acquainted him with what I knew of hemlock as a medicine for that diftemper, and recommended the ufe of it; before my letter came to hand, these children had left off taking medicines, as being much better.

In August 1771, a poor woman applied to me on account of her child, which was afflicted with the kinkcough. The child was three years of age; and the diforder was of a month's standing. I ordered the hemlock-mass in the form of a powder with liquorice-root: but, as very little attention was paid to my directions, a minute detail is unnecessary. There was, however, notwithstanding all difadvantages, a degree of fuccess which ferved to make me anxious for more favourable opportunities of confirming the efficacy of hemlock, as a cure for the kinkcough.

In a few months after I was called to the following patient.

CASE III.

Mifs K. aged three years, and naturally a ftrong healthy child, having lately had the meafles, the cough continued afterward, and terminated in the kink-This diforder was of a fortcough. night's flanding. The fits returned every three hours, or oftener, and were very fevere. They were most violent, when at the greateft intervals; her looks were feverish; her tongue was white; and her pulfe was very quick. The urine had a copious heavy whitish fediment. The ftools were regular. She was very fretful and averfe to taking medicines.

December 25, 1771, I ordered the following mixture to be given by little and little, fo as to be finished in twentyfour hours; to be repeated daily; and, after two days, another grain of hemlock to be added.

Shart soney of hemiock, as a cure for the

kinkcough.

Take of fpring water, an ounce and a half; lemon-juice, an ounce; fyrup of fugar, half an ounce; falt of tartar, forty grains; hemlock-mafs, a grain : mix them.

December 28, fhe was much better, her fits being milder and lefs frequent, and her phlegm loofer. Her nights had been good, except the laft, during which fhe was reftlefs and hot, owing to her having eaten the day before a good deal of pye-cruft which had been warmed a fecond time over the fire. Her tongue was clean; her pulfe was calm; and the fediment of her urine was lefs in quantity, lighter, whiter, and more equal.

A little manna was given in order to promote two or three flools; the mixture with two grains of hemlock-mafs was to be continued; and in a day or two a third grain was to be added.

After this I did not vifit my patient, the diffance being confiderable, and the circumftances of the cafe being fo greatly changed for the better, that my prefence

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was

was not neceffary: but I had accounts occafionally from Mr. Smith, the furgeon in attendance.

January 8. She fcarce ever kinked, and fhe coughed little. She was playful, and got ftrength faft.

She took the mixture with three grains of hemlock-mass regularly every day.

January 15. The kink was gone, and the cough was inconfiderable. She had taken three grains of hemlock daily for four days, which purged her a good deal and kept her conftantly fick. Upon this the mixture was continued with only two grains : and, after thus diminifhing the dofe, her appetite and fpirits became good, and fhe refted well. She had a ftool or two every day. Her urine depofited a whitifh fediment in fmall quantity.

January 23. She coughed little or none; and her firength and complexion returned faft.

She continued the mixture with two grains of hemlock.

February 20. Having been in the neighbourhood, I visited my patient. Her

Her parents told me, that, after fhe had been in a manner well for five weeks, the kinkcough with feverifhnefs returned on the fifteenth; from her having been allowed to expofe herfelf imprudently to cold, and to fill her ftomach with warm pork-pye. Mr. Smith had very properly purged off this load with a dofe of fenna-tea. When I faw her the fever was gone; and the kinkcough was much abated.

She continued the mixture with two grains of hemlock.

March 5. She was quite well, the kinkcough having left her above a week, and her medicine was omitted. She had all along been fond of the medicine.

Mr. Smith communicated to me the following cafe which came in his way fome weeks after I had preferibed for the laft patient.

CASE IV.

Mifs M. aged four years, had laboured under the kinkcough for a month, when F_2 fhe

fhe began to use the mixture as above with three grains of hemlock daily. She continued to take it regularly for a fortnight; in which time she was fo well that her parents did not choose to give it any longer. During the cure she had fometimes one and sometimes two shools a day.

I was called on the ninth of April, 1772, in the evening, to the following very remarkable cafe.

CASE V.

A. B. aged one year, and not yet weaned, had been diffreffed with a cough and oppreffion at his breaft fince the twenty-eighth of the preceding month. For the laft three days he had hooped frequently, and brought up phlegm fometimes by vomiting. His eyes were tender and could not bear the light. He had flept but little, fince the kinks began. He feemed to have great thirft, for he inclined always to be fucking. The fpittle driveled from his mouth; and he was

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very

very fretful: His countenance was pafty and wan. He had bred only two teeth; to wit, two of the lower fore-teeth : but the two directly oppofite to thofe were almost come through the gum. His pulfe was full, and intermitting, and beat about fixty times in the minute. He had generally one coffive flool a day. —Oxymel of fquills never opened his body, though he had taken it frequently, fince the cough began, fo as to make him vomit. He was the only furviving child of three, the two others having died, at the fame age with him, of epileptick fits.

A blifter was applied immediately to the leg, and was directed to be kept on twenty-four hours. Befide, I ordered a large fpoonful of the following mixture to be given every two hours, till he fhould have a ftool.

Take of fpring water, two ounces and a half; fyrup of fugar, half an ounce; magnefia, thirty grains; fpirit of hartfhorn, twelve drops: mix them.

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April

April 10. He had refled well in the night, had a loofe flimy flool, and was brifker. The gum was lanced this morning, to make way for the teeth: and the following mixture was ordered to be given by fpoonfuls, fo as to be finished in twenty-four hours, and to be repeated daily. On the third day, a second grain of hemlock was to be added to this medicine, finding it to agree.

Take of fpring water, two ounces and a half; fyrup of pale rofes, half an ounce; hemlock-mafs, one grain: mix them.

April 15. He was better to-day than he had yet been. The hooping was milder, though much the fame as to frequency. He flept pretty well in the intervals, His pulfe was rather quicker, but flill fomewhat unequal. The gums being fwelled, and the imprefions of teeth appearing, one was let out below yefterday, and two above this morning. He had taken the mixture with two grains of hemlock regularly fince

fince the twelfth, and had only one coffive ftool a day during that time.

The mixture was continued with an addition of two drams of the fyrup, and a third grain of the hemlock. Befides, in cafe the cough fhould at any time prove much worfe, a blifter was ordered to be applied to the other leg.

April 20. I visited the child, and found him very cheerful. As he had coughed a good deal, though without much hooping, on the fixteenth and feventeenth, the blifter was applied the evening of the last-mentioned day. The hooping fits were now much milder, and returned fearcely once in two hours. He had had two very flimy flools every day, fince the addition of fyrup. For the laft two or three nights he had fweated alittle; a circumstance which, the nurse faid, had not happened to him before, fince the beginning of his illness. He used to be much oppreffed with phlegm, and to vomit once in two or three days: but he had vomited none for these several days. His fkin was cool ; and his pulfe was more

re-

regular. More teeth feemed to be advancing.

He took the mixture with three grains of hemlock regularly.

April 23. He had been hot for the laft two nights, and dull in the day, always keeping his fingers in his mouth. The kinks were almost gone; but he continued to cough a good deal, especially in the night. The fwelled part of the gum was lanced yesterday; and he had two very flimy stools by means of some manna, the mixture having failed in its laxative quality. He had not expectorated fince the twentieth, and had breathed very easily during that time. He was this day very chearful.

The mixture was ordered to be continued with three grains of hemlock and an ounce of fyrup, or as much as would procure two flools daily.

April 29. He continued to mend. He flept well in the night, and was cheerful in the day. He had cut a tooth where the gum was laft lanced. For fome

fome days he had coughed every hour and a half, or thereabout, and brought up with eafe a good deal of white loofe phlegm. Since laft night he had not coughed more than every three hours, which rendered his expectoration more difficult. His pulfe was ftill rather fluggifh, and fomewhat unequal. He had taken the mixture with three grains of hemlock, and fometimes one ounce, and fometimes fix drams of the fyrup; by which means he had been now and then coftive, as the ounce of fyrup gave but two ftools. The ftools were ftill very flimy.

May 1. He recovered faft. A tooth was cut through, and there was no appearance of more. He coughed about four times in the night, and as often in the day. He kinked very little. He expectorated a white thick phlegm and with eafe, once or twice a day. He had fometimes two ftools, and fometimes one a day.

He continued his medicine.

May

May 6. He gained daily flefh, ftrength and fpirits. He coughed four or five times in twenty-four hours; and fometimes ftill kinked a little. His expectoration was eafy, and white and thick like matter, but of a loofer texture. One night he coughed but once, and then got nothing up. In the morning his breathing was a little affected; upon which he got a tea-fpoonful of oxymel of fquills, which made him vomit a good deal of phlegm, and rendered his breathing free. His pulfe ftill intermitted. There was no more appearance of teeth. He had bred fix fince the ninth of laft month.

He continued the mixture daily; but with the fame irregularity as to the quantity of fyrup, and with the fame effects.

May 13. He had not kinked oftener than once in twenty-four hours, and then very little, fince laft report; and he had kinked none at all for the laft three days. His cough was very triffing. He refted well in the night, and had a ftool or two every day.

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He continued his medicine.

May 20. His cough had left him, and he was quite well.

I faw this child on the feventh of June following. He was then ftrong and healthy. He had a remarkable frefhnefs of complexion, and a livelinefs of fpirits, which he never had before. His pulfe was quick and regular, as a child's at that age ought to be. He had two or three natural ftools daily. He was foon to be weaned, and in the mean time continued to be fuckled by the fame nurfe.

Being now perfectly convinced that I had difcovered an agreeable, certain, and expeditious, cure for the kinkcough, I induftrioufly, as I could, with confidence, laid myfelf out for more patients: and finding that this difeafe prevailed in the neighbourhood of Kegworth in Leicefterfhire, I wrote to my worthy friend Mr. Samuel Yorke, furgeon and apothecary there, intimating my defire to have fome patients labouring under the kinkcough, and that I would attend them without fee or reward. Accordingly he furnifhed me with the

the following fix patients. It is proper, however, to obferve, that, having been obliged to fet out for London on account of my own health, I vifited these patients but twice; namely, on the twenty-third of May, when I wrote their cases, and put them on a plan of cure, (which Mr. Yorke was so kind to take charge of) and on the tenth of the following month, when they were all cured, or nearly so.

CASE VI.

Sarah Wayte, aged eleven months, and not yet weaned, was afflicted with the kinkcough. She had been ill about a month; but fhe had had the hooping only for a fortnight. Her nofe and eyes had run, as from a cold, ever fince the beginning of her diforder. Her nofe was fluffed and dry, and her cough was alfo dry, in the night. She was never hot, but during the fits of hooping. She had a fit every hour, and fometimes oftener. She did not vomit with the fits, except immediately after fucking. The fits were moft fevere,

fevere, and most frequent, in the night. Her appetite was bad. Her pulse was calm. She had not had a stool for the last two days.

May 23. I ordered the following mixture to be taken by fpoonfuls, fo as to be finished in twenty-four hours; to be repeated daily, finding it to agree; and a grain of hemlock to be added, every other day, till good effects should be produced. Take of spring water, two ounces and a half: forum of pole of a loss

a half; fyrup of pale rofes, half an ounce; hemlock-mafs, one grain: mix them.

May 24. A good deal of the medicine was wafted in giving it, as fhe difliked it. She had one ftool laft night, and refted better than ufual, having kinked only three times. The fits were as frequent to-day as ever, but fhorter. Her expectoration was more free; fhe vomited a large quantity of thick phlegm.

The mixture was repeated.

May 25. She had not fo good a night, having kinked almost every hour. She vomited

vomited twice to-day. Her pulfe was rather quick.

She continued the mixture.

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May 26. She was much as yefterday. Her expectoration of phlegm was free, and copious; and fhe had a loofe ftool.

May 27. She took none of her medicine last night, nor to-day till noon. She had a bad night, having coughed fometimes every quarter of an hour.

It being found that the fyrup was difagreeable to the child, a little manna was added, inftead of it, to the mixture; which fhe began with at noon, and took very well.

May 28. She had a pretty good night, and did not hoop quite fo often to-day. She was obferved to be fleepy after taking the medicine.

The mixture was continued with the addition of a fecond grain of hemlock.

May 29. She refted better in the night. Her fits were lefs frequent. Her pulfe was calmer. She had one ftool today.

The mixture was continued duly.

May

May 30. She continued to mend. She had a loofe ftool.

The medicine was continued with three grains of the hemlock-mafs.

May 31. She was very cheerful. The fits were much lefs frequent and milder. The vomiting was gone.

The medicine was to be continued regularly.

June 1. She was better in all respects. The medicine was continued, with four grains of the hemlock-mass.

June 2. She was better in every refpect fince yesterday.

The mixture was continued duly.

June 3. She coughed thrice last night, and four times to-day; but kinked none. She cut a tooth to-day. Her pulse was calm.

The mixture was repeated with five grains of hemlock.

June 4. She had three fits of coughing laft night, and more of them than ufual to-day, but hooped none. The mother gave her none of the medicine.

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June 5. She coughed twice laft night, and three or four times to-day, without hooping. She cut two teeth, and two more were prefenting; but her mother would not allow the gum to be lanced. She had one ftool.

She took her mixture regularly.

June 10. She mended very faft from the thirtieth of laft month; infomuch that, by the third of this, fhe was almost well. The cough afterward became more frequent, probably from dentition, as the hooping fits did not return. A tooth was cutting the gum to-day. She had two flools.

She took the mixture daily.

June 11. She had a very good night, having coughed but twice. She had two ftools.

The medicine was continued.

June 15. The mother and child having been from home fince last report, the mixture was discontinued. She coughed and expectorated but little.

The mixture was repeated, with five grains of the hemlock-mass.

June

June 16. She coughed little. Her pulfe was calm. Her ftools were natural. She took the mixture regularly.

June 17. Having catched cold, her nofe and eyes ran much, and fhe coughed often, but never kinked.

The medicine was repeated.

June 19. Her cough was very trifling; and she was in good health.

The medicine was omitted.

CASE VII.

Elifabeth Page, aged four years, laboured under the kinkcough of a month's ftanding. The kink had attended her illnefs from the beginning. It returned once every hour or oftener, efpecially if any thing vexed her. She generally puked, and brought up much phlegm in the fit. A full meal always caufed a fit, which ended in vomiting. This difeafe had been much the fame for the laft fortnight. She was commonly hot in the night, and often hot with coughing. G

Her breathing was free; her pulfe was calm; and her appetite was good. She was troubled with thirft. She had two ftools, and fometimes more, in the day. May 23, 1772. I prefcribed the following mixture to be taken daily; and the hemlock to be increased a grain every other day till good effects fhould be obferved.

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thes 1.

Take of fpring water, two ounces and a half; lemon-juice, one ounce; spheres white fugar, a dram and a half; falt of tartar, forty grains; hemlock-mafs, two grains : mix them. May 24. Her complaints were much the fame. The medicine agreed well with her; and the took it regularly. May 25. She had a better night, and was better to-day. She kinked but thrice in the night. Her flools were as the fit. A fall meal aiways cauled sufit,

> The mixture was continued with an additional grain of hemlock. and bad

> May 26. She had three fits in the night; but they were milder and fhorter. Her Toti 2

Her cough was lefs fevere to-day than yesterday. She had one stool.

She took the mixture duly.

May 27. She flept well, and continued to mend. Her appetite was good.

The mixture was continued, with four grains of hemlock.

May 28. She had a good night; and was ftill better to day than yefterday, the fits being milder as well as lefs frequent. The ftools were regular.

The mixture was continued.

May 29. She had very little complaint; and had not taken all her medicine.

June 2. She continued much better. She coughed twice last night, and a few times to day. She had taken no medicine fince last report.

The mixture was repeated, with five grains of the hemlock-mass.

June 3. She was much better; but had not taken all the medicine.

June 4. She was fo well as to require no medicine.

Tune

June 10. She was in good health, and had been free from the kinkcough more than a week.

CASE VIII.

John Page, aged fix years, had laboured under the kinkcough for a fortnight, and had been affected with the hooping fits for more than a week. At first he was troubled with headach, hoarfeness, and fickishness; but he never had any fore throat. He was also chilly and hot by turns at the beginning of this difease, and was fometimes a little fo at this time. He kinked twice in the night, but oftener in the day. He expectorated phlegm with the fit, and also vomited with it, if his stomach happened to be full. He had thirst. His pulse was calm. His appetite was good. He had two stools every day.

May 23, 1772. I prefcribed the following medicine with the ufual directions.

Take of fpring water, two ounces and a half; lemon-juice, half an ounce;

ounce; white fugar, a dram and a half; falt of tartar, twenty grains; hemlock-mafs, three grains: mix them!

May 24. There was no alteration. The mixture was repeated.

May 25. He had a better night. He kinked twice, but brought up little phlegm.

The mixture was repeated with four grains of hemlock.

May 26. He had a pretty good night. The kinks were milder and fhorter. He had one ftool.

The mixture was repeated as yesterday.

May 27. He had a good night; and continued to mend in every refpect.

The medicine was repeated with five grains of hemlock.

May 28. He flept well, and was much better to-day.

The fame mixture was repeated.

May 29. He was almost well, He had not finished the mixture.

June 2. He still coughed a little. He had

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had taken no medicine fince the twentyninth.

The mixture was repeated with fix grains of the hemlock-pill.

June 4. He did not take his medicine regularly; and was indeed fo well as to require none.

June 10. He was in good health. His mother faid that he had mended furprifingly, and that he had not hooped for more than a week.

CASE IX.

Ann Archer, aged fifteen months, about a fortnight before I faw her, began to be affected with a cough, which, after the firft week, terminated in the kinkcough. The fit returned once in two hours, or an hour, and fometimes more frequently, efpecially if any thing offended her. She vomited in the fit if her ftomach was full, but not otherwife. A little phlegm always came into her mouth with coughing; but fhe often fwallowed it. She was very hot, but did

did not cough fo often, in the night. Her breathing was oppreffed, and fhe feemed otherwife uneafy, in her fleep. She had alfo been fubject, for more than a month, to fweat much when afleep. Her pulfe was quick. She had two griping greenifh flools every day. She had paffed a worm fince the kinkcough began.

May 23, 1772. I ordered the following mixture to be taken daily, with a gradual addition of the hemlock as ufual.

Take of fpring water, two ounces and a half; white fugar, a dram and a half; hemlock-mafs, one grain: mix them.

May 24. She had a better night, and only hooped twice. The fits were alfo lefs frequent, and milder to day. She had a ftool laft night.

The medicine agreed; was taken regularly; and was repeated to day.

May 25. The fits were more frequent last night, but milder. She was very cheerful to day.

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The mixture was repeated.

May 26. She had a good night, and kinked twice. She coughed more to day than yefterday. She continued to fweat in her fleep. She had three flimy ftools, and paffed a large round worm. She was very cheerful,

The medicine was repeated with two grains of hemlock.

May 27. She had a pretty good night, and fweated much lefs than ufual. Her fits were milder and lefs frequent. She had one flimy ftool.

The fame medicine was repeated.

May 28. She had a good night, and fweated none. She coughed lefs to day. She had two ftools without flime.

The mixture was repeated with three grains of the hemlock-mafs.

May 29. She was cheerful. She coughed twice in the night, and but feldom to day. She had two loofe ftools.

The medicine was repeated as yesterday.

May

May 30. She coughed thrice laft night, and feveral times to day; but did not kink.

The mixture was repeated with the addition of a fourth grain of hemlock.

May 31. She coughed three times laft night, and five times to day. She fweated in the night. She had three ftools.

The medicine was repeated.

June 1. She coughed twice in the night, and but twice to day. She had a loofe ftool. She was very lively.

The mixture was repeated with five grains of hemlock.

June 2. The cough was worfe; and fhe was very fretful. A tooth was cutting. She had one ftool.

The mixture was repeated.

June 3. She did not cough fo often as yefterday. Two teeth were making their way through the gum. She was a little feverifh. She had a loofe ftool.

The medicine was repeated with fix grains of hemlock.

June

June 4. She was very fretful and cried much ; which made her cough more frequent than yesterday. She was not feverish. She had two flimy stools. The teeth had not yet made their way: June 5. She had a good night. She had cut three teeth. Her cough was much abated. Her fkin was cool, She was very cheerful.

June 10: Her cough continued, but the kink had left her above a week. She fometimes coughed till fhe was black in the face, and yet did not kink or vomit. Sucking or drinking put away the cough. She was cutting both her eye-teeth, whereof one was almost through the gum. She was hot and feverish in the night. She had taken no medicine for feveral days paft. She had two fools a day. on bib add ... amit

The mixture was repeated with fix grains of the hemlock-mais.

June 11. Her cough was abated. She had one ftool. She was very brifk. The medicine was repeated. Tune

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June 12. She refted well. The cough was much lefs.

The mixture was repeated.

June 13. She was much better in all respects.

The medicine was taken duly.

June 14. She coughed none in the night, and only a little in the morning.

June 15. The cough was almost gone.

June 16. She was in good health; and the mixture was omitted.

CASE X.

John Archer, aged ten years, of a grofs, fquare habit of body, had laboured under the kinkcough fince the fifth of April. This diforder began with headach, hoarfenefs, fore throat, cough, ficknefs, and voiding of worms by ftool. The kink came on after the firft fortnight. For the laft week or two the difeafe had been rather on the decline : but he ftill kinked often. The fits were worft in the night. He expectorated phlegm in the fit; and alfo

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alfo vomited, if his ftomach happened to be full. His throat continued to be a little fore. He was troubled with thirft. His appetite was good. He had two or three ftools every day.

May 23. I ordered the following mixture, with the usual directions.

Take of fpring water, three ounces; white fugar, a dram and a half; hemlockmass, five grains: mix them.

May 24. He had a better night. He kinked only twice in the night, and not fo often as ufual to day. His throat was better. He had one ftool. The mixture agreed well, and was repeated.

May 25. He had a pretty good night. He coughed and expectorated lefs. His throat was well. His appetite was very good. He had one stool, and passed a large round worm,

The mixture was repeated with fix grains of the hemlock-mafs.

May 26. He had a good night. The fits were lefs frequent; but he bled at the nofe in them this afternoon. He paffed two worms, and had one ftool.

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The mixture was repeated.

May 27. He coughed upon first going to bed, but none in the night. His cough was lefs frequent to day than yesterday; but he bled at the nose every other coughing fit. He had one stool.

The mixture was repeated with feven grains of hemlock.

May 28. He had a very good night, not having coughed once. The cough was much better to-day. He bled once at the nofe. He had a ftool.

The mixture was repeated.

May 29. He had a very good night ^{*} and did not cough. He coughed but three or four times to-day. He bled a little at the nofe. He had a ftool.

The medicine was repeated.

May 30. He had two flight coughing fits laft night, and coughed feveral times to-day; but feldom kinked. He had two ftools.

The mixture was repeated with eight grains of the hemlock-mafs.

May 31. He was still better to-day than yesterday. He had three stools.

The

The medicine was repeated in add June 1. He continued to mend. He had one flooladt ni anon and bad ot-

The medicine was repeated. June 2. He had a very good night, and continued better. in anidauou todao

The mixture was repeated. in od T

June 3. He coughed but ionce in the night, and twice to-day. 1 .80 vold

The medicine was repeated with nine grains of Hemlock. of ustad doum any

June 4. He was fo well to-day that the mixture was omitted.

June 10. He continued to cough a little, but had not hooped for a week

CASE XI.

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Samuel Archer, aged feven years, and of the fame grofs fquare make with his brother, the preceding patient, began, fourteen days before the time of my feeing him, to be affected with headach, hoarfenefs, fore throat, cough, thirft, and heat. He had kinked mostly every hour for about a week. BLOOM (STORE) STORE

a week. The fits were most violent in the night. He bled at the nose in a bad fit; and, if his flomach happened to be full, he vomited in the fit. He expectorated much phlegm. He was hot when afleep. His breathing was free; his appetite was good; his pulse was quick; and he had three flools a day.

• May 23, 1772. The hemlock was ordered in the fame dofe and manner as for his brother.

May 24. He had a much better night, having had only three fits. He expectorated a great deal of phlegm this morning. He had one ftool.

The mixture agreed well; and was repeated.

May 25. He had a pretty good night. He both kinked and expectorated lefs. He had one loofe ftool.

The mixture was repeated with fix grains of the hemlock-pill.

May 26. He was still better than yefterday. His appetite was good. He had four loofe stools, and passed three large worms of the round fort.

The

The mixture was repeated.

May 27. He coughed when he first lay down in bed, and no more all night. He continued better to-day. He had three stools.

The medicine was repeated with feven grains of the hemlock-pill.

May 28. He complained of pain in his belly at times. He continued to mend in other refpects.

The mixture was repeated.

May 29. He had a very good night, and did not cough at all. He coughed three or four times to day. He ftill complained a little of his belly. His appetite was good. He had two loofe ftools.

The medicine was repeated.

May 30. He had two flight coughing fits in the night. He coughed and vomited feveral times to-day. He had two ftools.

The mixture was repeated with eight grains of hemlock.

May 31. He had three flight coughing fits in the night, and feveral fits today;

day; and vomited once. He fweated much in the night. His appetite was good. He had fix ftools and paffed fix live worms.

The medicine was repeated.

June 1. He coughed twice last night and thrice to day. He was feverish last night and to day. He had a ftool with two large worms.

The mixture was repeated with nine grains of hemlock.

June 2. He was not fo feverish ; and was on the whole better than yesterday. He had two ftools.

The mixture was repeated.

June 3. He was much better. He coughed twice in the night. He had a stool with a large round worm in the morning.

The mixture was repeated with ten grains of the hemlock-pill.

June 4. He coughed twice last night, and about fix times to day. The pain of his belly was much better. He had two ftools.

The mixture was repeated.

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June 5. He had a good night, and coughed but twice to-day.

: The mixture was difcontinued.

June 10. Three years ago he voided by flool, feven fcore of large round worms, in the fpace of three days. He alfo paffed fome worms about laft Chriftmas, but none after, till he began with the hemlock. The kinks had left him above a week. He had ftill a cough; and it occafioned vomiting of phlegm in a morning. The vomiting relieved the cough. He complained of pains in his belly towards night. He was hot and fweated in the night. His pulfe was calm. He had two flools every day. He began his medicine again on the eighth, and took it regularly.

The mixture was repeated, with eleven grains of the hemlock-mafs.

June 11. He coughed twice last night, and thrice to-day; but hooped none. He vomited his dinner. He had two stools. The mixture was repeated.

June 12. He refted better. The cough was milder and less frequent. He passed a large worm to-day.

The

The mixture was repeated with twelve grains of the hemlock-mafs.

June 13. He refted well. The cough was lefs. He had one ftool with a large live worm.

The mixture was repeated with thirteen grains of hemlock.

June 14. His cough was better. He had two ftools with one large worm.

The mixture was repeated with fourteen grains of hemlock.

June 15. The cough was lefs troublefome. He had one ftool with a large worm to-day.

The mixture was repeated.

June 16. The cough was very trifling. The pain of his belly was gone. He had two flools.

The mixture was repeated.

June 18. He continued well. He had two ftools with one large worm.

The fame mixture was repeated.

June 19. He had a ftool with a large worm: but as he was now in good health, and as his chief food was brown bread and water (his parents being very H 2 poor)

poor) I apprehended that the worms would continue till the caufe fhould be removed, and fo his medicine was difcontinued.

Mr. Yorke communicated to me the four following cafes which occurred to him in his own practice.

CASE XII.

Robert Truffel, aged three years and a half, had laboured under the kinkcough between a fortnight and three weeks. He coughed every hour or half hour, but did not kink above three times in twenty-four hours. He often bled at the nofe and mouth. He paffed a large round worm a few days ago.

June 10, 1772. A large spoonful of the following mixture was to be given every four hours.

Take of fpring water, three ounces; fugar candy, a dram and a half; hemlock-mass, three grains: mix them.

June 11. He had a good night. He coughed about once in three or four hours last night and to day. He once 4 brought

THE KINKCOUGH. 101 brought up a good deal of phlegm. He had one ftool, with a worm.

He took the medicine duly; and it was repeated.

June 12. He was reftles in the night, but did not cough more than usual. His cough was milder to-day. He had two stools.

The mixture was repeated with four grains of the hemlock-pill.

June 13. He had a better night. The cough was much the fame as yefterday; but the hooping was gone. His fkin was cool. He had two ftools.

The mixture was repeated.

June 14. The cough was much the fame. He had two ftools.

The mixture was repeated.

June 15. He coughed frequently today, and vomited with almost every coughing fit; but still did not kink. His appetite was good; and he eat heartily.

The mixture was repeated, with five grains of the hemlock-pill.

H 3

June

June 16. He had a good night; and was much better in all refpects. The vomiting was gone. He had two ftools.

The medicine was repeated.

June 17. He had three fits of coughing in the night, and four to day; and he vomited once. His skin was cool.

The mixture was repeated with fix grains of hemlock.

June 18. The cough was much better. He did not vomit. His appetite was good.

The mixture was repeated.

June 19. He continued to mend.

The mixture was repeated, with feven grains of the hemlock-mass.

June 20. He was still better.

The fame medicine was repeated.

June 21. He coughed three times; and bled at the nofe to day for the first time fince he began the hemlock. He had not kinked for the last nine days.

He continued the medicine a few days longer; and was perfectly cured.

CASE

THE KINKCOUGH. 103-

CASE XIII.

Elizabeth Truffel, aged ten months, had been afflicted with the kinkcough ever fince the nineteenth day of April. The kinks returned very often, and fhe generally brought up phlegm with them. She had a ftool every day.

June 11. The following mixture was given, fo as to be finished in twentyfour hours.

Take of fpring water, two ounces;

fugar candy, half a dram; hemlock-pill, a grain and a half: mix them.

June 12. She was much the fame. She had three ftools to day.

She took the medicine regularly, and it was repeated.

June 13. The kinks were milder, and lefs frequent. Her fkin was cool. She had two ftools.

The mixture was repeated with two grains of hemlock.

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June 14. She coughed more frequently than she kinked. She was in good spirits.

The mixture was repeated.

June 15. Her cough was better last night and to day; and she did not kink. She had three stools.

The medicine was repeated, with three grains of the hemlock-mass.

June 16. She had but two hooping fits in the night; and as many to day. Her appetite was good. She was very cheerful.

The mixture was repeated.

June 17. She coughed once or twice to day; but kinked none. She was pretty well in every refpect.

The mixture was difcontinued.

bro ylan CASE XIV.

Mary Green, aged five years, had laboured under the kinkcough for a month. The hooping began in two or three days after the first attack of the difease. Those fits returned almost every hour, and were often attended with vomiting. Some-

Sometimes the kink was fo violent that fhe turned black in the face, became ftiff all over, and fwooned. She complained always of headach for a minute or two before the kink came on. She was regular as to ftools. She had always been weakly; and fhe was a year and a half old before fhe took to walking.

June 16. She got three grains of the hemlock-mass in a mixture, which was to be finished in twenty-four hours.

June 17. The mixture was repeated. June 18. She had much better nights.

The fits were milder and lefs frequent. She vomited none to day.

The mixture was repeated.

June 19. She had a bad night; but was better to-day.

The mixture was repeated, with four grains of the hemlock-pill.

June 21. She vomited none fince the feventeenth. She took no medicine yefterday.

The mixture was repeated, with five grains of hemlock.

June

June 23. The kinking fits were milder.

As the family did not fend regularly for the medicine, five grains of the hemlock-mafs were mingled with a proper quantity of teftaceous powder; fix of thefe powders were fent together; and one was to be finished every twenty-four hours, it being given by little and little.

July 5. They did not fend again till today: and it was uncertain whether the powders had been properly given. The child having been feized with a very violent hooping fit, infomuch that fhe became fliff and fainted away, the neighbours were called in as though fhe had been dead: but, as foon as fhe feemed to be coming to herfelf, they fent for a repetition of the powders.

Six more powders were ordered, each containing feven grains of hemlock.

July 11. She was much better in every refpect; and had not fwooned fince laft report.

Six powders were repeated.

Jan July

July 20. She continued to mend. Six powders as before were repeated.

August 1. They did not fend again till to-day.

Two powders were repeated, each containing eight grains of hemlock-pill.

This child took no more medicine; for though the difeafe was not cured, yet it was become fo flight as to give her little trouble, and her parents no alarm. She never had any fwooning fits during the regular ufe of the hemlock.

CASE XV.

---- Ancor (daughter to John Ancor of Thrumpton), aged nine years, was afflicted with a violent kinkcough of more than fix weeks ftanding. The kink began on the fourth day from the firft feizure of the difeafe. It returned above ten times in the day, and nearly as often in the night. It was always preceded by a pain at the upper part of the breaft. During the firft fortnight fhe vomited generally in the fit, and brought up great

great quantities of phlegm; but fhe did not vomit after. She bled at the nofe only three or four times in one day. Her appetite was bad. Her belly was natural. She was of a weakly habit of body.

June 21, 1772. She got the following mixture to be taken as usual.

Take of fpring water, three ounces; fugar candy, a dram and a half; hemlock-pill, fix grains: mix them.

June 24. Her medicine had been taken regularly, and repeated daily; and with an extraordinary good effect, for the kinks were greatly abated.

The fame method was continued.

June 27. The kink was gone; but fhe ftill coughed. She took her mixture regularly.

July 4. The cough was gone; and fhe was in every refpect in good health.

The medicine, which had hitherto been continued regularly, was omitted.

Mr.

Mr. John Smith, furgeon in Uttoxeter, to whom I have already acknowledged my obligations, informs me, that towards the end of last year he cured three children afflicted with the kinkcough, by my method; and that the cure of each was compleated in three weeks.

The kinkcough being epidemick in Derby this current year, 1773, I fought out for fome patients, that I might finally eftablifh the excellence of hemlock, as a cure for this difeafe. I give the whole of these cases, as usual, to the reader, without selection, and according to the order of time in which I treated them.

CASE XVI.

Thomas Newdale, aged four years, of a florid complexion, and delicate, though healthy habit, laboured under the kinkcough. The cough began three weeks before I faw him ; and he had been troubled with the kinks or hooping fits for a fortnight of that time. The fit returned every hour, and he had bled often at the nofe in it; but none for the laft two days.

days. He vomited in the fits, efpecially if his ftomach was full; and he discharged a great deal of phlegm both by expectoration and vomition. He knew when the fit was to come on by a particular fenfation in his throat. He then cried out to have his head held; and the fit was fometimes fo violent, as to raife him, thus held, from off the ground. His breathing was free, and his fpirits were good in the intervals. His appetite was bad. His belly was natural.

February 21. I ordered a large fpoonful of the following mixture to be taken every four hours, always fhaking the bottle firft.

Take of fpring water, three ounces; white fugar, a dram and a half; hemlock-mass, two grains: mix them.

February 22. He had a better night than ufual. The fits were lefs violent and fcarce fo frequent. His pulfe beat a hundred and twelve ftrokes in the minute this evening. He had one ftool.

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THE KINKCOUGH. III

The mixture was repeated with four grains of hemlock.

February 23. He refted well in the night, and had a better day than ufual. He had eleven fits during the laft twentyfour hours, and vomited only in one of them. They were all milder and fhorter. He was very playful in the intervals. His breathing was a little affected; and his pulfe beat a hundred and twelve times in the minute this evening. His appetite was better. He had one flimy ftool.

The mixture was repeated with five grains of the hemlock-pill.

February 24. He was better in every respect fince yesterday. His pulse beat a hundred and seventeen strokes in the minute this night. His skin was cool. He had no thirst. The urine was without colour or sediment. He had one stool.

The mixture was repeated with fix grains of the hemlock-mafs.

February 25, at night. He had only ten fits fince last report. He expectorated in

in all of them, vomited in one, and bled a few drops at the nofe in another. He had no ftool. He took his medicine regularly.

The mixture was repeated with feven grains of hemlock, and a fcruple of magnefia.

February 26. He had only nine mild fits, and vomited in none of them. His pulfe beat a hundred and twenty ftrokes in the minute this night. His fkin was cool. He had no thirft. His appetite continued to mend. His urine was colourlefs and without fediment. He had a large ftool. He was very playful.

The mixture was repeated with eight grains of the hemlock-pill and forty of magnefia.

February 27, at night. He had five flight kinks fince last report; and vomited a good deal of phlegm in two of them. He had one stool.

The mixture was repeated with eight grains of hemlock and a dram of magnefia.

Febru-

February 28, at night. He refted very well in the night, and had a good day. He had eight fits of coughing without either hooping or vomiting. He looked better. He had one loofe ftool.

The mixture was repeated.

March I. He continued to mend. He kinked but once, and the cough was milder. He vomited once, and always expectorated a little phlegm with the cough. His pulfe beat a hundred and twelve ftrokes in the minute to-night. He had five ftools.

The mixture was repeated without magnefia.

March 2, at night. He had nine fimple fits of coughing fince laft report. His water was very pale, with a little very light white fediment. He had two ftools.

The mixture was repeated with nine grains of the hemlock-mass.

March 3, at night. He was very cheerful and well. He never kinked. He coughed but once in the night, and

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the coughing bouts to-day were moftly from laughing, crying, or romping. The urine was as ufual. He had one ftool.

The mixture was repeated.

March 4. He coughed twice in the night, and feveral times to-day, but mostly from accidental causes. He never kinked or vomited. He had one stool.

The mixture was repeated with ten grains of the hemlock-mass.

March 5. He had many flight fits of coughing. His urine continued pale. He had one ftool.

The mixture was repeated.

March 6. He coughed feveral times, and kinked twice. He generally expectorated a little phlegm; but never vomited. He had one coffive ftool.

The mixture was repeated with eleven grains of hemlock and twenty of polychreft falt.

March 7, at night. He had eight fimple fits of coughing fince the last report. He had two stools.

The

The mixture was repeated with twelve grains of hemlock and as much polychreft falt.

March 8, at night. He had twelve fits of coughing fince last report, kinked in feveral of them, and vomited in three. His urine was pale with a little very light white fediment. He had no stool. It appeared that he had been permitted to go out of doors constantly for a week past, as if he had been in perfect health.

He was ordered to be confined to the houfe; and the mixture was repeated with twelve grains of hemlock and thirty of polychreft falt.

March 9, at night. He coughed ten times, but neither kinked nor vomited, during the last twenty-four hours. His urine was of a milky colour. He had three loofe stools.

The mixture was repeated as yefterday.

March 10, at night. He had twelve fimple fits of coughing fince the laft report. His fkin was cool. His pulfe was calm. His water was very limpid, with fcarce any fediment. He had one ftool.

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The fame mixture was repeated with an additional grain of hemlock.

March 11, at night. His cough was much the fame. His pulfe beat eighty ftrokes in the minute. His urine was without colour, and without fediment. He had an eafy ftool. He got flefh and ftrength.

The mixture was repeated with fourteen grains of hemlock and two fcruples of polychreft falt.

March 12. He was in good health. He never kinked, and feldom coughed. He had three ftools.

The mixture was omitted.

March 14. He coughed but once in the night, and very little to-day.

March 19. He continued very well, never coughing in the night, and very feldom in the day; notwithftanding that he had gone out and in, without reftraint, and eat and drank, as when in his beft health, for a week paft.

CASE XVII.

Mary Hele, aged two years and a half, on the twenty-fecond of March began to be

be feverish, having been before pretty well, except as to a fhort cough of a fortnight's ftanding. The fmall-pox appeared in a few days after the fever began, and turned out a very diffinct good fort. The cough, on the feventh day of the eruption, terminated in the kinkcough; which diforder still continued. The kink returned fometimes once, and fometimes three or four times in an hour. She generally vomited in the kink. Her breathing was always much opprefied, and was attended with a panting noife. Her belly was full and hard. She had very bad nights, and ftarted and cried in her fleep .- She alfo laboured under a quotidian ague, of which this was the fourteenth day. She was very thirsty during the fever. She had no appetite. She had fometimes two or three flools in the day, and fometimes only one. Her flefh and ftrength were much exhaufted.

February 21, at night. I ordered two tea-spoonfuls of the following mixture

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to be given every three hours, first shaking the glass.

Take of fpring water, two ounces;

white fugar, a dram; hemlockmafs, a grain and a half: mix them. February 22. She had a very bad night. The ague-fit came on half an hour after eleven to-day. She fhook violently till noon; the fever lafted till four in the afternoon; and was milder: fhe fweated fcarce any but on her feet. She kinked but once during the fever. Her breathing was quite free this evening. Her pulfe was ftill quick. She had two ftools, whereof the laft was very flimy. She was a little cheerful. She did not begin the mixture till feven in the morning, and it was now done.

The mixture was repeated with two grains of hemlock.

February 23. Her night had been as ufual. The kinks returned oftener than once in the hour, but were fhorter. She vomited much phlegm in two of them. The ague came on about one o'clock, and

and was just fuch a fit as she had yesterday. She was very cheerful to-day both before and after the fever, and took her food with an appetite. Her breathing was free and her skin was cool this evening. The urine, made in the morning, was high coloured, and deposited a fediment. She had two stools, which were rather costive. She took her medicine regularly.

The mixture was repeated with two grains and a half of the hemlock-mafs.

February 24. She refted better laft night than fhe had done any night thefe three weeks, having flept for two hours at a time, and without either fcreaming or ftarting. She had thirteen kinks, befide two accidental ones, fince laft report; and vomited but in one. The ague-fit began a little before noon, lafted till four, and was a good deal milder. She drank none, and flept half an hour during the fever. She was afleep to-night, and breathed eafily. Her pulfe beat a hundred and twelve ftrokes in the minute. She had a black ftool.

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The mixture was repeated with three grains of the hemlock-mafs.

February 25. She had a good night, having flept calmly for an hour at a time. She had eleven kinks fince last report; befide an accidental one, which ended in vomiting of phlegm. The fever began a little after eleven to-day. The cold fit lasted near an hour, and was attended for the first time with a tremor, instead of the usual violent agitations. She was hot most of the afternoon. Her appetite was good, and she had eaten heartily today. She had one very yellow flimy loofe ftool. She had been cheerful this evening, and was now afleep. Her breathing was free; her pulle was calm; her skin was cool, and her belly was foft.

The mixture was repeated with three grains of hemlock and fifteen of magnefia.

February 26. She had twenty kinks fince laft report; whereof fix were about midnight, in the fpace of three hours. She

She flept a little after two in the morning. The ague-fit began at noon, was mild, and lafted the ufual time. She had only one kink during the fever, but they came thick after. She had two yellow flimy loofe ftools. She had been very cheerful in the abfence of fever this day; but fhe was peevifh to-night. She overloaded her ftomach with improper food yefterday.

The mixture was repeated with an additional half grain of hemlock.

February 27. She had feveral fits of coughing, but kinked only in two of them. She flept very well in the night between the fits. She had the fever as ufual to-day. She vomited much lefs phlegm, and fearce ever her food, for fome days. Her appetite was more moderate, fince fhe had eaten fo voracioufly. She had three yellow very flimy and loofe flools. Her pulfe beat a hundred and twelve flrokes in the minute to-night. She was afleep, and breathed eafily.

The fame mixture was repeated with four grains of the hemlock-mafs.

Febru-

February 28. She refted very well in the night. She had many coughing bouts, and fome of them from paffion. She had only three kinks befide an accidental one. The fever-fit diminished daily. She had four large yellow flimy ftools. She was very cheerful this evening.

The fame mixture was repeated, with only eight grains of magnefia.

March 1. She refted pretty well in the night. She had feven kinks, befide fimple fits of coughing, fince the laft report. The fever continued to leffen, and fhe fweated all over to-day. She had two ftools of a more natural appearance. Her pulfe was firm, regular, and beat a hundred and four ftrokes in the minute to-night. She was afleep, and breathed freely. She fweated with every dofe of the mixture.

The fame mixture was repeated with ten grains of nitre inftead of magnefia.

March 2. She had eight flight kinks, befide one or two accidental ones. She had only two during the fever; whereof one was

was in the cold fit. Her feet were obferved to fwell to-night for the first time. She vomited her supper. She was very morofe. She had no thirst, and very little appetite. She made water plentifully. She had one stool. The medicine did not now make her sweat.

The mixture was repeated as yesterday.

March 3. She had a good night. She had fourteen very flight kinks; and vomited a little phlegm in one of them. The fever was much milder and fhorter, and fhe fweated in it. She had a bloated appearance during the fever. She made a great deal of water. She had a loofe flool of a dark colour refembling the medicine. She had been cheerful this evening; and was faft afleep. Her fkin was cool. Her pulfe beat a hundred and four times in the minute.

The fame mixture was repeated with an additional half grain of hemlock.

March 4. She had eight very mild kinks. The fever was inconfiderable today. She had a dark ftool without flime. She

She was very peevifh and looked rather bloated to-night.

The mixture was repeated with ten grains of polychreft falt inftead of nitre.

March 5. She was hot, peevifh and reftlefs a good part of the night, but fhe became cool and flept tolerably after. She both kinked and coughed feveral times, but never vomited. She had little or no cold fit to-day. She continued cheerful after the fever till fhe fell afleep this evening. She had two ftools.

The mixture was repeated, with five grains of hemlock and ten of nitre, inflead of polychreft falt.

March 6. She had a very good night, She had four mild kinks, and about as many fimple coughing fits. The fever was fo flight that fhe chofe to fit up the whole time of it. She was very cheerful almost all day; and exerted her fpirits beyond measure. She had two loofe ftools without flime, but fill coloured, as with the medicine.

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The mixture was repeated as yefterday.

March 7. She was very reftlefs and hot till paft midnight; but flept pretty well after. She had no fever to day. She had ten flight kinks fince laft report; but most of them were accidental. She had one finall ftool. She was amazingly morofe this evening, and was fo from nature.

The mixture was repeated, with a fixth grain of hemlock.

March 8. She was hot, fretful, and reftlefs laft night, till a fweat came on, when fhe fell afleep, and did not awake for feven hours. She had feveral fimple coughing bouts, but kinked only from accident. She had three natural ftools. She had been very cheerful and cool all day, and was fo to-night.

The mixture was repeated as yefterday.

March 9. She refled very well, was cool all night, and fweated none. She had eleven flight kinks. She was cool

to night, and had been fo all day. She had a fmall ftool.

The mixture was repeated, with feven grains of hemlock, and ten of polychreft falt, instead of nitre.

March 10. She had eleven mild kinks, befides fimple fits of coughing. She was feized with fwelling of her face and limbs, and coldnefs, about one o'clock to-day: a hot fit fucceeded the coldnefs, and terminated in a gentle fweat, which carried off the fwelling faft; and there were no remains of it to-night. She made a great deal of water towards the end of the fever. She had a ftool of the ufual colour, but without flime.

The mixture was repeated with feven grains of hemlock, and twelve of polychreft falt.

March 11. She flept well in the night; and had a good day. She had fix mild kinks, befide coughing fits. She made a great deal of water. She had three flools of a natural appearance. She was very cheerful to-night.

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The mixture was repeated with feven grains and a half of hemlock without the falt.

March 12. Her cough was much the fame. She had another ague-fit, with bloatednefs. It began foon after noon; and the fwelling was off before five. She made a great deal of water. She had four flools of a natural appearance. The flools relieved her cough much, efpecially the laft, which was about fix in the morning.

A waiftcoat, in which were quilted two ounces and a half of peruvian bark, according to Doctor Pye's method, was put on the child's naked body: and the mixture was repeated as yefterday.

March 13. She had a pretty good night, having flept for two hours at a time. The kinks were rather more frequent. She had one large ftool. She was afleep this evening. Her fkin was cool. Her pulfe was quick.

The mixture was repeated.

March 14. She rested very well in the

the night, and fweated in the beginning of it. She had a mild fever-fit to day, She had one ftool. She was alleep this evening:

The mixture was repeated, with eight grains of the hemlock-mafs.

March 15. She had a good night, and likewife a very good day. The kink was gone; and the cough was moftly from paffion. She had two natural ftools.

The mixture was repeated.

March 16. She had a very good night. The ague fit began at eleven, and lafted till near four; but was very flight. Her cough was lefs frequent. She had three large natural ftools.

The mixture was repeated.

March 17. She refted well: and had a very good day. The cough was triffing. She had one ftool.

The mixture was repeated.

March 18. She had a very good night. The fever was very gentle today. She coughed little or none, but from

from paffion. She had a large ftool.— For the laft three days fhe took her mixture only in the day; but always finished it.

The mixture was repeated.

March 19. She flept well in the night, and had a very good day. She coughed very little. She had two natural flools. The mixture was repeated.

March 20. She had a very good night. The fever did not last two hours to day. The cough was trifling. She had two natural stools.

The mixture was repeated.

March 21. She had above fifteen ftools, with tenefmus, and fometimes a coming down of the body, fince laft report. Some of the ftools had a purulent appearance, and were ftreaked with blood. She was very reftlefs through the day. She vomited her food about noon.

The mixture, of which fhe had taken but one dole, was omitted in the morning; and fhe got three drops of laudanum. She got the fame number of drops again

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to night: and they were to be repeated in the morning, if the loofeness should continue.

March 22. She refted tolerably laft night, and fweated when afleep. She had no fever-fit to day. She had fifteen ftools; whereof fome were flimy, and two or three refembled matter, with ftreaks of blood. She was afleep this night; fhe breathed very eafily; and her fkin was cool.

She took the drops in the morning; and they were repeated to night.

March 23. She refted very well in the night. She had eleven ftools: fome of them were flimy, but none had a purulent appearance. She had no complaint, but the loofenefs. She took no drops till five this evening; and fhe flept afterwards till eight.

March 24. She flept very well laft night, and did not cough once. Her cough was now merely accidental. She was very cheerful to day; and walked round the room with help. She had

had fix ftools of a very good appearance. Her ftools never had any unufual fmell during the loofenefs. She was afleep this night.—She took four drops of laudanum in the morning.

March 25. She was free from complaints. She had two natural ftools in the morning; and then got four drops of laudanum.

March 26. She flept very well in the night. She had two natural flools. She was in good health. She took no medicine fince yefterday morning.

March 29. She was in good health; had a great appetite; and got flesh and ftrength fast.

April 3. She was much improved in flefh and ftrength, and was very lively and well.

CASE XVIII.

William Toplis, aged five years, had been troubled, for the three laft weeks, with a cough which in all refpects refembled the kinkcough, except that he did K 2 not

not kink. The coughing fit returned every hour and a half, or every two hours, and fometimes even four or five times in an hour. He discharged much phlegm, both by coughing and vomiting. He likewife vomited almost whatever he took. He picked his nofe, grated his teeth, flarted, and shrieked in his fleep. He was thirfty. His tongue was moift. He had a small, but frequent appetite. His pulfe was fmall and quick. The cough had all along been attended with a loofenefs; and he had four or five very loofe stools daily. His belly was large, but not hard. His habit of body was much extenuated. He was naturally quiet and fpiritlefs; which disposition was increased by his complaints.

February 25. I ordered a fpoonful of the following mixture to be taken every four hours.

Take of fpring water, three ounces; white fugar, a dram and a half; hemlock-mass, three grains: mix them.

February

February 26. He had but one ftool. The mixture was repeated with an additional half grain of hemlock.

February 27. He had a reftlefs night, having flept little till towards morning. His cough was milder, and lefs frequent. His pulfe was fmall, and beat a hundred and twenty ftrokes in the minute to night. His fkin was hot. His urine was pale, and without fediment. He had no ftool.

The mixture was repeated, with a fcruple of magnefia.

February 28. He refted tolerably in the night. He coughed often, and vomited a good deal of phlegm, to day. His fkin was hot, and his pulfe was quick this evening. He had four loofe ftools.

The mixture was repeated without magnefia.

March 1. He had coughed often to day; and he vomited his fupper; his pulfe beat a hundred and twenty fix ftrokes in the minute. His urine depofited a copious fediment. He had no ftool.

The hemlock-mixture was repeated with fifteen grains of nitre.

March

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March 2. He refted better in the night, and had a better day. The cough and vomiting were abated. He complained of pain in his belly at times. His urine ftill deposited a heavy fediment. He had one ftool.

The mixture was repeated, containing four grains of hemlock, and fifteen of nitre.

March 3. He had a pretty good night, and alfo a better day than ufual. He coughed lefs frequently, but with more violence; and I obferved him to kink to day, which his friends faid, was the firft time. He vomited very feldom. The pain of his belly continued troublefome at times. He had no flool. He was afleep late this night, and his pulfe beat a hundred and twenty eight flrokes in the minute.

The mixture was repeated, with four grains and a half of hemlock, fifteen of nitre, and twenty of magnefia.

March 4. He was low fpirited. His cough was better; but he kinked fometimes.

times. His belly continued large, but was not hard, nor painful to the touch. His urine was not high coloured. He had no ftool.

A fpoonful of a three ounce folution, containing two fcruples of polychreft falt, was to be given every four hours.

March 5. He had been fpiritlefs all day, continuing in bed, and faying little; but afking for cold water to drink, which was not denied him. He had a ftool in the night, and a fmall one in the morning; befide fruitlefs motions to ftool through the day. His pulfe was quick and fmall.

A quarter of an ounce of common falt diffolved in half a pint of water was ordered immediately for a glyfter.

A folution of a fcruple of nitre in three ounces of water fweetened, was given by fpoonfuls in the ufual manner.

March 6. He had a better night. He kinked thrice; and coughed often befides. He vomited a great deal of phlegm three different times. He had feven ftools fince

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laft report; whereof the firft was coffive, the reft were flimy, and three were fmall. He was this night cooler, and more cheer. ful.

The hemlock-mixture was repeated, containing five grains of the mafs.

March 7, He had a very good night, He kinked thrice, and vomited phlegm once. He never vomited his food. He had two ftools. His fkin was cooler. His pulfe was ftill a little quick. He was alleep this morning. He had eight fits of coughing through the day, and kinked in most of them, but did not vomit. He had four fmall yellow flimy ftools. He was ftill much lefs feverish this night.

The mixture was repeated, with fix grains of hemlock-mafs.

March 8. He had a good night, and kinked twice. He had two flimy ftools. His pulfe was quick this morning. He was very eafy, and coughed a little, but kinked none, through the day. He was neither affected with thirft, ficknefs, nor vomiting,

vomiting. His pulse was still quick. He had four small flimy very loose stools.

The mixture was repeated.

March 9. He had a good night; though he had flarted often, and talked a good deal in his fleep. He coughed a little, but never kinked. He had five finall very loofe ftools, with tenefinus, and paffed a live worm of the round kind. His belly was lefs. His pulfe was ftill quick. His fkin was warmer than natural. He was cheerful this evening.

The mixture was repeated.

March 10. He refted well. He had one flight kink in the night, but none fince. He had a pretty good day. He was not thirfty. His appetite was rather better. He had three loofe ftools. His pulfe was ftill quick, He was more cheerful this evening.

The mixture was repeated, with feven grains of hemlock.

March 11. He had a pretty good day, and was more lively. He coughed a little, but without expectoration; and neither kinked

kinked nor vomited. He complained of fome pain in his head and belly. His pulfe was ftill quick. He was not thirfty. His appetite continued rather better. He had three fmall loofe ftools.

The mixture was repeated, with eight grains of the hemlock-mass.

Next day, he had only one flimy flool; which was obtained by a glyfter. He got no more of the hemlock, as the kinkcough was cured.

The cure of this boy's other complaints was attempted by the peruvian bark, and other cordial antifeptick means, together with vermifuge medicines, and fmall dofes of rhubarb : but in vain ; for he died on the thirtieth of the fame month. He paffed but one other worm, and it was dead. His ftools continued offenfive, and unnatural in their appearance, to the laft.

CASE XIX.

Mary Langly, aged ten weeks, was fubject to a cough of a fortnight's flanding,

ing, which returned very often, and in fits, like the kinkcough ; though fhe had never been observed to kink. The cough was often fo violent as to make her black in the face. She difcharged much phlegm, both by expectoration, and vomition. Her belly was full and hard, She was often chilly and hot by turns. She ftarted, and moaned in her fleep. She was very fretful. Her pulfe beat a hundred and twenty-fix ftrokes in the minute, when the was afleep. She laboured under a loofeness of the same continuance with the cough : and fhe had four or five flimy ftools in the day, for fhe never had any in the night. She was fuckled by her mother, who was afflicted with epileptick fits.

February 25. I ordered a tea fpoonful of the following mixture to be given every three hours, first shaking the glass.

Take of fpring water, an ounce;
white fugar, half a dram; hemlock-mafs, half a grain: mix them.
February 26. She had two ftools.
She took her medicine regularly.

The mixture was repeated, with a grain of hemlock.

February 27. Her cough was much the fame; but fhe did not vomit with it. Her belly was fofter. She had no ftool.

The mixture was repeated, with an addition of five grains of magnefia.

February 28. She coughed often, and was very reftlefs to day. She had two loofe ftools.

The mixture was repeated, with only half a grain of hemlock, and without the magnefia.

March 1. The cough was much the fame. She had two ftools. She was very cheerful.

The mixture was repeated as yesterday.

March 2. She had a pretty good night. She coughed a great deal to day. She had three yellow flimy ftools.

The mixture was repeated, with a grain of hemlock.

March 3. She coughed and vomited very much, and had little or no reft. She

She fucked very well. She had two

The mixture was repeated, with half a grain of hemlock, and five grains of nitre.

March 4. She was worfe than ever; for though fhe did not kink, fhe coughed violently, and fometimes three or four times in the half hour, and always voided both ftool and urine at the fame time. the Board winney beatering bad and

The mixture was repeated, with one grain of hemlock, and without nitre.

March 5. She had a better night. She kinked once in the night, and thrice after. She still had frequent and violent fits of coughing; but they were neither fo violent, nor fo frequent, as yesterday. She fometimes voided both urine and ftool in the fits. She was very cheerful in the intervals of coughing. She was fond of the mixture. good mained

The mixture was repeated, with a grain and a half of the hemlock mafs. March 6. She refted about an hour in the night, and a little to day. She kinked once in the night, and four times after.

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after. The fits of coughing were lefs frequent; but fome of them were more violent than ever, lafting two or three minutes. She became rigid, and fwooned, in one of the kinks. She had two ftools; whereof one was in a fimple coughing fit.

The mixture was repeated with two grains of hemlock.

March 7. She refted better laft night. She had five and twenty fits of coughing : Ihe kinked in nineteen of them, and vomited in two. She was very cheerful in the intervals. Her fkin was cool. Her pulfe was natural this evening. She had no ftool.—It appeared that fhe was often carried out of doors.

The mixture was repeated, with two grains and a half of hemlock, and five of magnefia.

March 8. She had a very good night, having flept for two hours together. She had nine kinks, befide flight fits of coughing; and vomited in three of them, her ftomach having been full each time. One kink was very violent; but fhe did

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not fwoon with it. She had three very flimy ftools. Her fkin was cool, and fhe was very cheerful to night.

The mixture was repeated, with an additional half grain of the hemlock-mafs.

March 9. She refted very well in the night. She had eleven mild kinks; and vomited once: fhe was cheerful in the intervals. She had many griping flimy ftools. Her fkin was cool to night.

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March 10. Her night was very good. She had fourteen kinks, and vomited her milk with a good deal of phlegm in three of them. She had one loofe flimy ftool. She was very cheerful to night; and had been fo, at times, all day.

The mixture was repeated with the magnefia.

March 11. She had a good night. She kinked thrice in the night, and fixteen times after. She vomited twice. She had two flimy ftools. Her fkin was cool, and fhe was this night very cheerful.

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The mixture was repeated, with another half grain of hemlock.

March 12. She had fourteen flight kinks; and was cheerful in the intervals. She vomited in one of the fits, and had a flool in another. She had two flimy flools in all. She was abroad to night. The mixture was repeated, with four grains of the hemlock-mafs.

March 13. She had a pretty good night. She had three kinks in the night, and eleven after. She did not vomit. She had two flimy ftools. She had been out of doors to day.

The mixture was repeated.

March 14. She had not fo good a night; but fhe refted pretty well to day. She had thirteen mild kinks, and never vomited. She had one ftool. She was very lively this night.

The mixture was repeated.

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March 15. She was reffles in the night. She kinked fourteen times, fince last report, without vomiting. She fometimes vomited her milk, as children commonly do. She had two stools.

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The mixture was repeated, with other five grains of magnefia.

March 16. She had a pretty good night. She had thirteen kinks. She had no ftool. She was very cheerful this evening.

The mixture was repeated with an additional half grain of hemlock.

March 17. She had a good night. She had fourteen mild kinks. She was often very fretful. She had four ftools. She was alleep this evening.

The mixture was repeated with lefs hemlock, by half a grain.

March 18. She had a pretty good night. She kinked fourteen times. She had four ftools. She continued to be very fretful at times; and feemed as though the was hurt by fomething. Her navel had always been too big : it was as large as a nutmeg, and foft; but was faid to be fometimes hard.

The belly was ordered to be fwathed with a flannel roller.

The mixture was repeated with four L grains

grains and a half of hemlock, and only five of magnefia.

March 19. She refted well in the night. She had eight mild kinks. She had three ftools; whereof one only was flimy. She was very cheerful this night; and had been fo through the whole day.

The mixture was repeated.

March 20. She had a very good night. She kinked fix times. She had five ftools. She was very lively, and improved in flefh, ftrength, and colour.

The mixture was repeated, with five grains of the hemlock-mafs, and four of magnefia.

March 21. She refted very well in the night. She had eleven kinks, and vomited in three of them. She had four ftools.

The hemlock mixture was repeated, with three grains of magnefia.

March 22. She refted well, and had but one kink in the night, and five very flight ones after. The vomiting was gone. She had three ftools.

The mixture was repeated.

March

March 23. She had a very good night. She had four mild kinks; and as many stools.

The mixture was repeated.

March 24. She had two very flight kinks in the night, and none after. She coughed feldom but from fretfulnefs. She had three ftools. She was very lively this evening.

The mixture was repeated.

March 25. She was in good health and fpirits. The kink was gone; and the never coughed but from paffion. She had three ftools.

The mixture was repeated.

March 26. She was very well. She had three ftools.

The mixture was repeated for the laft time.

March 29. She was cheerful, plump, and free from all complaints.

CASE XX.

Sarah Wadle, aged two years and four months, was tolerably healthy till about a year ago, when she took to eating fand as often as she could meet with it; and did eat

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a great deal before proper means were ufed to keep her from it. Ever fince that time her complexion hath been pale, though it was never very fresh; her belly hath been large and hard; and her appetite hath been very unequal, being for a month or two voracious, and for as long very bad, in mutual fucceffion.

During the loss of appetite, fhe is diftreffed with unquenchable thirft, and drinks all the liquids fhe can get. Thefe complaints have almost without interruption been attended with a loofenefs: and the stools have generally been unnatural in their appearance, and very offenfive. Her stelf and strength have gone and come with her appetite; though she hath all along been rather losing ground in these respects. She has for these two months been subject to profuse sweats in the night.

About a month ago fhe was feized with a cough and difficulty of breathing, which within a fortnight terminated in the kinkcough. The dyfpnoea is conftant : walking increases it much, and will at any

any time bring on the kink. This is very violent, and returns oftener than once in the hour. She complains of pain in her belly, generally vomits phlegm, and often voids her urine involuntarily in the kink. She frequently defires to go to fleep, as foon as the kink is over. She moftly vomits her food. She is very thirfty. Her appetite is pretty good. Her fkin is hot. Her pulfe is calm. Her flefh and ftrength are greatly exhaufted fince the cough began.

April 18. The following mixture is ordered to be taken by fpoonfuls in the usual time.

Take of fpring water, two ounces;

hemlock pill one grain; white fugar, a dram: mix them.

April 19. She was very reftlefs in the night. Her breathing is very fhort both when fhe is afleep and awake. She hath had fix flimey flools mixed with fkinney fragments.

The mixture is repeated.

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April

April 20. She fweated much lefs in the night. She hath had twenty-two kinks fince the laft report; and they are milder and fhorter. She vomited but once. She hath had fix darkifh loofe ftools; whereof one was in a fit. Her breathing is more free to night. Her fkin is ftill hot.

The mixture is repeated with two grains of the hemlock mafs.

April 21. She flept five hours together laft night. The kinks are much milder, and the hath had but fourteen in all. She hath had three loofe ftools. Her fkin is cooler, her breathing continues better, and fhe is very chearful this evening.

The mixture is repeated.

April 22. She hath kinked two and twenty times, and vomited twice. She hath had three ftools. She is very chearful to night.

The mixture is repeated with three grains of the hemlock.

April 23. She hath had fifteen kinks, and vomited with four of them. She hath

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hath had three watery ftools. She is very playful to night.

The mixture is repeated.

April 24. She hath kinked fixteen times, and vomited phlegm feven times. She hath had feven very flinking loofe ftools; whereof two or three paffed involuntarily during the kinks. Her breathing is fhort. Her appetite is bad.

The mixture is repeated.

April 25. She hath had a tolerable night, and hath flept fome to day. She did not fweat in the night. She hath kinked thirteen times, and vomited feven times. She is very dry; and hath no appetite. She hath had eight very loofe ftools.

The mixture is repeated with four grains of the hemlock mafs.

April 26. She hath had a good night. She hath had eleven kinks, and vomited a little phlegm in fix of them. She never fweats. Her appetite is rather better. She hath had five very fmall thin ftools. She hath been all this day chearful and cool.

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The mixture is repeated with four grains and a half of hemlock.

April 27. She hath had eight kinks, and three fimple fits of coughing. She hath expectorated a great deal of phlegm, and vomited twice. She breathes freely. Her appetite is very good. She hath had five ftools, whereof one was rather coftive. She gains flefh and ftrength.

The mixture is repeated with five grains of the hemlock mafs.

April 28. She refted very well in the night, and flept three hours to day. She hath had eight kinks, and vomited with four of them. Walking about does not bring on the fit, nor does fhe complain of pain in her belly during the fit, for thefe laft two days. Her belly is much fofter. She hath had five ftools of a more natural appearance. She hath been very chearful and cool all day. She is afleep this evening, and breathes eafily.

The mixture is repeated with an additional half grain of hemlock.

April 29. She hath had a very good night. She hath kinked eight times, and vomited

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vomited none. Her appetite is good. Her urine is of a pale ftraw colour with a very light white fediment. She hath had three loofe ftools.

The mixture is repeated with fix grains of the hemlock pill.

April 30. She refted very well in the pight. She hath had fix fits of coughing, and kinked in four of them. Each of the fimple coughing fits ended in vomiting of phlegm. She is ftill thirfty. Her appetite is good. She hath had five ftools, whereof three were not very loofe.

The mixture is repeated with feven grains of hemlock.

May 1. She hath kinked four times without vomiting. She hath had two ftools; and neither were very loofe. She is very playful.

The mixture is repeated.

May 2. She hath kinked fix times, and never vomited. She hath very little thirft. She hath had four ftools.

The mixture is repeated with eight grains of the hemlock mafs.

May

May 3. She hath kinked five times. Her appetite is good. She hath had five ftools.

The mixture is repeated with nine grains of hemlock.

May 4. She hath kinked fix times, and vomited twice. She hath had five loofe ftools. She is very chearful and well to night.

- The mixture is repeated.

May 5. She eats and fleeps well; and is generally very playful through the day. She hath had fix kinks, and vomited in three of them. She hath had five flools; whereof three were not loofe.

The mixture is repeated with ten grains of the hemlock mass.

May 6. She hath kinked fix times, and vomited thrice. She hath had four finall ftools; and only one of them was loofe.

The mixture is repeated.

May 7. She hath had five kinks, and vomited with three of them. She hath had four fmall ftools of a dark colour but

but not loofe. She is this night very chearful and well.

The mixture is repeated.

May 8. She hath kinked four times, and vomited once. She hath had four very dark flools; and two of them were not loofe.

The mixture is repeated with eleven grains of the hemlock mafs.

May 9. She hath kinked thrice, and vomited once. She hath had four loofe ftools. She gets flefh and ftrength faft, and hath now a better complexion than ever.

The mixture is repeated.

May 10. She hath had two kinks, and vomited in one of them, her ftomach having been full. She hath had three very fmall ftools of a good colour and not loofe.

The mixture is repeated with twelve grains of hemlock.

May 11. She hath had feveral coughing bouts, kinked in two of them, and vomited in one of thefe. She hath had three ftools, and none of them were loofe.

The mixture is repeated.

May 12. She hath kinked twice without vomiting. She hath had four finall loofe flools.

The mixture is repeated with thirteen grains of the hemlock pill.

May 13. She hath kinked once. She hath had two natural flools. She is plump, ftrong, and very playful.

The mixture is repeated.

May 14. She hath had one flight kink, and three loofe flools. For this laft week fhe hath been able to rife from off the ground; which fhe never could do before fince fhe had the notion of attempting it.

The mixture is repeated with fourteen grains of hemlock.

May 17. She hath had only three accidental kinks fince last report. Her belly is quite fost and reduced to a natural fize. Her stools are not loose, and much less frequent.

She continues the mixture regularly.

May 19. She hath kinked none thefe two days; and is in perfect health.

She

She continues her mixture with fifteen grains of hemlock.

May 24. She is in good health. Her ftools are of a natural appearance; and the hath never more than two, and fometimes but one in the day.

She continues her mixture.

June 3. She hath had no complaint fince laft report. She is in perfect health: and her parents fay that fhe was never fo well before.——The mixture was taken duly till the thirtyeth; when it was difcontinued. She had all along been very fond of the mixture.

BEFORE I clofe this chapter, it will be neceffary to make a few remarks, tending to explain fome circumftances in the preceding cafes; and which will pave the way for fuch inferences as are afterward to be deduced from the whole.

The cure of the patient, cafe fifth, though feemingly tedious, yet, every thing confidered, is as remarkable as any of the reft; and is greatly in favour of

of hemlock. Whatever is there faid of that medicine is at least true; for it is extracted mostly from the accounts of an anxious parent, who was always in fear of the worst. To the fame cause ought to be attributed a timid use of the medicine. So that, upon the whole, it appears that hemlock faved the life of this infant; and that the cure might have been sooner accomplished by a freer use not only of hemlock, but of the laxative.

Both Mr. Yorke and I are convinced that each of the fix patients, which I had at Kegworth were cured in a week's time: though when I vifited them on the tenth of June, I chofe to ufe a lefs precife exprefision, as being delivered to me by the parents themfelves, that there might not be the fmalleft room for miftake or impofition.

Though Mary Green took her medicine very irregularly, at leaft with confiderable interruptions; yet I thought proper to infert her cafe, as the kink fometimes ended in fwooning and general rigidity; and as thefe fymptoms never 3 came THE KINKCOUGH. 159 came on during the regular use of the hemlock.

I muft likewife obferve, that I faw all the four patients that were cured by Mr. Yorke, and fome of them before they were well, and I enquired very minutely into their feveral fymptoms, and this was only that I might have every poffible teftimony for facts which I defired to deliver to the world with the utmoft confcioufnefs of their reality.

Thomas Newdale was cured of his difeafe in lefs than a week; and of a relapfe in ftill fhorter time: fo that he was twice cured, and reftored to perfect health in the fpace of a fortnight.

Mary Hele fuffered many hardfhips in the progrefs of her cure from a cold habitation and improper food; but the greateft hardfhip was, that, after fhe had been entirely freed from complaints and was recovering her flefh and ftrength faft, her friends, contrary to my ftrict injunctions, and very foon after I left her, ftripped her of the quilted

quilted waiftcoat which was made at my expence, carried her out of doors, and treated her in every refpect as though fhe had never been ill: the confequence of all which was, that fhe became feverifh, and was feized with a cough which was at firft inflammatory, afterward purulent; and foon ended in death. During this laft illnefs, fhe had no complaint in her bowels; and her ftools were natural.

It may be expected that I fhould fay fomething of that loofenefs, which came on towards the end of this child's cure: Fever is often nature's operation, and as it were the laft effort when other anatomical motions do not fucceed, in clearing the body of worms. In fuch a cafe, the uncommon heat obliges thefe vermin to feek their way out by a voluntary effort; or should they fail in this, they of courfe die and are diffolved into a shapeless mass refembling fkins, mucus, or even matter. I believe that this was exactly the cafe with our patient: for the judicious reader will upon a review of that hiftory fee

fee that there was no time when an inflammation and its confequences could have happened, and that even the circumftances attending the loofenefs are not to be explained upon fuch a fuppofition. To those who look upon the purulent appearance of the flools as a conclusive argument to the contrary, it may be fufficient to observe, that no perfon hath as yet been able accurately to diftinguish matter from mucus.

William Toplis and Mary Langly, both lodged in one little room. The fire was composed of every thing worthlefs that was combuffible, which raifed a most fuffocating fmoke, unlefs the door and windows were open to difpel it : fo that by these means the unhappy children were either fweltered with a most fuffocating heat, or exposed to accidents from cold. According to this fituation of things, it is the more difficult to determine how far it was hurtful to them that they were never confined within doors. The boy was perverfely allowed M

to

to go about in that manner, till through weaknefs he was hardly able to crawl. From that date, which is mentioned in the cafe, his cough mended fait, and was entirely gone in five days.

No doubt it will be obferved, on the cafe of Mary Langly, that nothing remarkable was performed, fince the cure was not completed in lefs time than a month. To this I answer, that for the first eight days no steady plan was purfued; as I was perpetually wavering between the influence of a name *, and the fuggestions of my own reason and experience. This time therefore being juftly left out of the computation, the cure was finished within three weeks. At any rate, what other medicine befides hemlock could have faved the life of fo young an infant labouring under a most violent kinkcough, complicated with all the wretchedness confequent upon ftupidity and extreme indigence?

* See Lond. Medical Obfervations, vol. 3. p. 406. The

The obfinacy, if not the fatality of Sarah Wadle's kinkcough might have been foretold from the violence of the difeafe itfelf, and alfo from its being complicated with abdominal infarctions, and a chronick loofenefs : a complication which becomes ftill more unfavourable upon the fuppofition that the kinkcough is an inteftinal difeafe. It is neceffary however to remark, that this patient's recovery was very confiderably retarded by a cold fmokey-houfe, and a diet, in general, very improper as to its quality.

From the whole it appears that hemlock hath never yet been unfuccefsful in the kinkcough, nor ever been contraindicated through any of its complications. Can more be faid in praife of any remedy for any difeafe whatever ?

To conclude; the names of the patients and their places of abode are mentioned as often as it could be done with propriety, in order that all perfons, willing to take the trouble, may fatisfy themfelves as to the truth of my narration.

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CHAP. VI.

Of the cure of the kinkcough, both simple and complicated.

IN the preceding chapter, I have fully and fairly laid before the reader the whole of my experience relating to hemlock as a cure for the kinkcough. I shall now make the best use in my power of these observations, by adapting them not only to the simple kinkcough, but likewise to all its varieties arising from complication with other diforders; and shall treat this subject in the order that appears to me most natural, beginning with the fimple difease.

I. Of simple kinkcough.

There is but one indication in this difeafe; namely, to give hemlock.

The true rule of giving this medicine is, to begin with a very fmall quantity diffused in a watery vehicle.

This

This mixture is to be given by little and little, fo as to be finished in twentyfour hours, or a natural day, and to be repeated daily.

A fmall addition of the hemlock mass should be made to the mixture every day, or every other day, till symptoms of relief appear.

You are then to continue that dofe fo long as it feems to produce good effects.

When the medicine begins to lofe it's effect, you are to proceed in augmenting the quantity a very little as before.

If any untoward, or contraindicating fymptom comes on, you can either give the medicine in lefs quantity, or difcontinue it for a time as may feem neceffary.

To a child under fix months, you may begin with half a grain of hemlock, diffolved in an ounce of fpring water properly fweetened.

For a child from fix months to two years old, the mixture may confift of one grain diffused in an ounce and a half of water.

For

For a patient from two to four years of age, two grains of hemlock in two ounces of water will be fufficient at first.

You may proceed in this manner, always allowing half a grain of hemlock in your first daily dose for every year of the patient's age till he is twenty.

After the patient is twenty years of age, you may always begin with ten grains of the hemlock mass for the first natural day's confumption.

It is not neceffary to increase the vehicle of your medicine in the fame proportion: it should be of such a quantity as not to be troublesome to swallow, while at the fame time it sufficiently divides the medicine, so as not to feel thick in the mouth.

One ounce, and eight ounces of water being confidered as the two extremes, there will be no difficulty in adjufting intermediate quantities to different ages, especially as no great accuracy is required.

Such patients as diflike a liquid medicine,

cine, may have the hemlock in the form of powders, bolufes, or pills.

If the patient has not two flools a-day, it will be proper to add a fufficient quantity of magnefia, or polychreft falt to the mixture.

Adults, for the fame reason, may use fenna tea, or polychrest falt, or fifteen or twenty grains of the aloetick pills.

As the flomach and bowels are very weak in this difeafe, it is evident, that the diet fhould be light and of eafy digeftion. Little or no animal food fhould be allowed. All fermented liquors are improper. The moft fuitable diet is fmall broths, milk, plain puddings, gruel, toaft and water, and the like. If the patient is an infant on the breaft, the nurfe's milk is the beft food, efpecially if it purges.

II. The cure of the kinkcough with worms.

From the inftances given of this complication, in the preceding chapter, it is evident, that worms aggravate the M 4 kinkcough.

kinkcough. It alfo appears, that in general more ftools are neceffary in fuch a complication, than when the kinkcough is fimple. Befides, there is reafon to believe that hemlock will, in fuch cafes, often fuperfede the ufe not only of laxatives, but of any other medicines whatever in the cure of both diforders. I therefore recommend the very fame means for the cure of this complication, as for that of the fimple kinkcough; only fuch patients fhould have two or three ftools or more in the day, according as the urgency of the cafe may require.

III. The cure of the kinkcough with a dysentery.

About ten years ago I had fuch a cafe under my care. The patient was a young child. A great many medicines were ufed, as gentle vomits, laxatives, blifters, the peruvian bark, opiates, &c. This morbid complication notwithftanding continued obftinate; for no fooner was one difeafe relieved than the other became worfe

worfe in proportion. At laft, finding the expectoration free, and the ftools of a pretty natural appearance, I was determined to truft entirely to opiates for a cure, efpecially as the patient's ftrength was very much exhaufted. Accordingly, I ordered a large dofe of fyrup of white poppies, which procured him feveral hours found fleep, and he awaked free from both difeafes. He recovered his ftrength however very flowly; for he was pale, weak, fpiritlefs, and had a quick pulfe for near two years after. He is now a ftrong healthy youth.

Opium certainly faved this child's life: but hemlock feems to be a much better medicine in fuch a cafe. I have already endeavoured to explain how it acts in the kinkcough. On the fame accounts it muft be ufeful in the dyfentery. By its antifpafmodick quality it will remove inteftinal ftrictures, and fo unload clotty feculent accumulations, which, by lurking in the guts, often aggravate and protract the difeafe. Befides, as a fedative and

and a healer it will be of great fervice in the dyfentery.

Whatever be in this reafoning, there is ground to expect the greateft benefit from hemlock in the dyfentery; as we have feen it fo efficacious in fome of the preceding cafes for a diarrhæa, that it was neceffary to employ laxatives to obviate the bad effects of too fudden a ftoppage. Hemlock therefore promifes of itfelf to anfwer in most cafes, every intention in every ftage of the morbid complication of which we are fpeaking; and may be ufed according to the rules laid down under fimple kinkcough.

IV. The cure of the kinkcough with dentition.

We have found that hemlock is a cure for this variety of the kinkcough, when given according to the rules fo often mentioned.

When the fymptoms of both difeafes are urgent, notwithstanding the use of this medicine, the gum should be cut where the tooth prefents itself, whether

it appears to be near the furface or not. Many phyficians advife againft making thefe incifions, unlefs the tooth be on the point of cutting through the gum: becaufe, fay they, when the tooth is not fufficiently advanced the wound heals before it hath made its way, and confequently a greater refiftance is made than before to the protruding tooth, on account of the neceffary callofity. But this objection is of no weight when we confider, that fuch trifling incifions may be repeated, without inconvenience, as often as neceffary, till the tooth has thoroughly made its way.

There is another objection to thefe early incifions more deferving of our attention. It is this: the enamel, not having yet acquired its proper hardnefs, is injured by the knife, and confequently the tooth becomes difeafed. This is the cafe with my fifth patient: for the teeth that were cut upon are difcoloured, and their edges refemble fo many crefcents with the points turned upwards. It is to be feared

feared that the next fucceffion will not be founder; as nothing is more common than to fee carious teeth communicate their taint to the inferior protruding ones; but perhaps this bad confequence may be prevented by extracting the difeafed teeth fome time before they flow a tendency to fled.

Unlefs in cafes of danger therefore it is improper to lance the gum, fo as to reach the teeth with your knife, except they are very near the furface : and deep incifions are the lefs neceffary, as I have feen fuperficial ones made upon the fwelled part of the gum, where I was fure that no tooth could be touched, not only prevent convulfions but even remove them in a moment.

V. The cure of the kinkcough with an ague.

Sir John Floyer once cured this complication by the peruvian bark after general evacuations: but this method I believe will not always anfwer. The feventeenth cafe is a ftrong inftance of the efficacy

efficacy of hemlock for both difeafes: the treatment there differs little from the method recommended for the fimple kinkcough. It does not appear that the bark was more efficacious than hemlock as a febrifuge; at leaft in that external method of applying it, and I am fure it never could have been given internally.

VI. The cure of the kinkcough with the fmall-pox.

I know from experience that hemlock may be given in the fmall pox not only with fafety but advantage. Having been called to two poor children in the very beginning of the eruptive fever of this difeafe, the one a boy aged five, the other a girl aged nine years, and both of healthy habits, I thought proper to order hemlock in the form of a mixture for each, their bowels having been firft emptied with fenna tea; and the fmallpox turned out a very diffinct and good fort. I would not have it thought that this was a random experiment. Doctor Storck

Storck had afferted, and I had often found by experience, that hemlock taken internally neither cools nor heats; and that it promotes a kindly fuppuration in fores, even after the peruvian bark hath failed. It was therefore reafonable to expect the fame good effects from hemlock in the fmallpox. Add to this, that the poverty of the patients not permitting the use of the bark, and the certainty of the fmall-pox being fometimes complicated with a difeafe that was become particularly the object of my confideration, not only authorized, but rendered the above trials highly neceffary: and it is with pleafure that I can draw this conclution from them, that hemlock may be given in fuch a combination, not only with great fafety but with equal advantage.

However I have fince had reafon to believe that this variety of the kinkcough is not fo dangerous as hath been commonly apprehended : for a furgeon of fome experience in inoculation affures me,

me, that he is fo far from declining that operation on account of the kinkcough, that it is rather a fresh inducement with him to perform it upon fuch patients by way of a cure. He showed me three children that he had inoculated while they were labouring under the kinkcough; one of them was entirely freed from his diforder by the cruptive fever ; and the other two were fo much relieved by the fame, that though the kinkcough continued after the fmall pox was gone, yet it was in fuch a flight degree as to merit no regard. I hear fome other inoculators follow the fame practice, and that they were led to it by obferving that the kinkcough was either much relieved or entirely cured by the natural finall pox.

VII. The cure of the kinkcough with the measles.

Though I have feen the difeafe, yet I never treated it. This is indeed a moft dangerous complication : for I am well informed that it proved fatal to many children in and about Loughborough laft

laft year. Hemlock, bleeding, bliffers, faline medicines, laxatives, and diluents are the cure.

In this and all other combinations of the kinkcough with feverifh diforders we are firft to attend to the moft urgent difeafe, which no doubt is the fever; and we need only aim at palliating the kinkcough, fo as to render the progrefs and termination of the other difeafe favourable; efpecially when it may be judged improper to go fuch lengths with the hemlock as would be neceffary to effect a complete cure foon : but I believe fuch cafes will fcarcely ever happen unlefs from idiofyncrafy.

VIII. The cure of the kinkcough during pregnancy.

Though pregnancy is no difeafe, yet it occafions peculiar fymptoms in the kinkcough, and renders it dangerous. This therefore must be looked upon as a morbid variety that claims particular attention:

tention: and it is a pleafure to find that the method of cure recommended for the fimple kinkcough is equally fuccefsful here.

A Shemloole hatig not diffigreed with any one of the foregoing patients, we may conclude that it will very induin be contraindicated in the kinkcouch, durangh what is called idiffurerely, or peuthacity of temperament.

This medicine qures the kinkengh even in the late month of pregnancy, and in the first months of infancy; and is abidinely fair hourder mother and child.

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CHAP. VII.

Corollaries.

I.

A S hemlock hath not difagreed with any one of the foregoing patients, we may conclude that it will very feldom be contraindicated in the kinkcough, through what is called idiofyncrafy, or peculiarity of temperament.

II.

This medicine cures the kinkcough even in the laft month of pregnancy, and in the first months of infancy; and is absolutely fafe both for mother and child.

III.

Hemlock is fo far from occasioning spassing fight in children, that it is a certain cure for a spassing difease, which hath hitherto

hitherto refifted all other medicines. Befides, it certainly prevented fpafins, and probably fatal convultions, in the child, cafe fifth; notwithftanding a conflitutional tendency, a rapid dentition, and an obftinate kinkcough, all confpired to bring them on.

IV.

It is a good medicine in dentition.

V. .

It cures the fymptoms attending the round worms, and even expels these vermin.

VI.

It takes off fever in some instances.

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It ftops immoderate excretions.

VIII.

It fometimes promotes fweat.

XI reney, and s N controlly removed

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It frequently keeps the body open, and fometimes even purges.

ney, a Xill dentition, and

It often does not fenfibly affect any fecretion or excretion.

XI.

It immediately procures better nights in the kinkcough.

It cures the fyr.IIX has attending the

It immediately abates the vomiting, and generally carries it off in a few days.

XIII.

The phlegm is daily diminished during the use of this medicine; for less and less is thrown up while the vomiting continues.

XIV.

The kink daily abates in force and frequency, and is generally removed together

together with all its concomitant fymptoms, except a flight cough, in the fpace of a week: and this is often the cafe even in fome inftances of complication with other difeafes, as dentition, or worms.

XV.

Thus hemlock is a fpecifick in the kinkcough according to the moft proper interpretation of that word; for it acts on all the fymptoms at once, or rather on the proximate caufe : and fo by diminifhing the irritation, all the fymptoms muft of courfe diminifh in the fame proportion, till at length they are entirely removed, that is, till the difeafe is cured.

XVI.

Hemlock is not only a fuccefsful and expeditious cure for the kinkcough, but it is a medicine that can always be adminiftered; for we cannot fuppofe an inftance where the most froward child N 3 will

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will refufe it, as it can be difguifed in fo many fhapes, on account of the fmallnefs of the quantity requifite, as well as the mildnefs of its fenfible qualities.

XVII.

Finally, hemlock cures the kinkcough fafely, certainly, expeditioully, and pleafantly: which are all the requisites of the most defirable and complete cure.

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A Description of HEMLOCK and its Preparations.

HOUGH, with many other practitioners, I can fay that hemlock is not an infallible remedy for cancerous or fcrofulous tumours and fores; yet the world, in my opinion, is greatly indebted to doctor Störck for recommending it, not only in those cafes where it is generally useful and often effects a cure; but also in many other diforders. It is much to be regretted that he fhould have met with fo much opposition to this benevolent defign. I term it opposition; fince all who have differed from that learned gentleman cannot lay claim to candour. For example, they are furely very blameable who, abfolutely and without trial, condemn the use of hemlock on account of its fuppofed poifonous nature. Is N 4

Is not opium a rank poifon? and yet the materia medica would be very lame without it, So true is this maxim, medicamenta a venenis non natura sed dosis distinguit *. And equally unfair is that inference which fome have made, that, becaufe hemlock failed with them in the cure of cancers, it was of course good for nothing : fince, during the progrefs of fuch trials, they ought at leaft to have observed effects from it, sufficient to point out its utility, in fome other diforders incident to the human body. But I pafs over thefe and other fimilar arguments, against the use of hemlock as a medicine, being confcious that they will avail little. For my part, I have long and attentively observed its effects, both as an external and internal medicine, and have had more and more reason to look upon it, as a valuable acquifition to the materia medica. There are two circumstances however that well deferve notice, as they prove a greater bar to the medical reputation of hemlock,

* Linnæi Materia Medica, Canon. 17.

than

than all that hath been faid or written against it: And they are these.

Firft, as there is no tolerable defcription of the plant in any botanical book commonly met with, others of the umbelliferous clafs have very often been miftaken for it.

Secondly, no precife method hath yet been published for making the preparations of hemlock, particularly the extract. For this reason, I believe, almost every perfon makes it in a different manner. Nay more, I may be bold to fay, that very few make it twice in the fame manner. I am led to think fo, becaufe I never faw fo much variety in any one medicine. Sometimes it hath been black, and fo empyreumatical that you could not poffibly diflinguish any odour of the plant. Sometimes it hath been of a greafy light green colour with fcarce any fmell, and that not refembling hemlock. At other times it hath been observed of a yellowish brown colour with a rank ftrong fmell. It hath as often been got withous

as with powder. If it hath fometimes been procured of a proper confiftence for pills, it hath much oftener been too hard, or too foft for fuch a form. And very frequently it hath been covered with mould * and overrun with mites †.

In order to obviate the above-mentioned abuses, my defign is to give a botanical description of hemlock; and alfo fome account of its more ufual preparations, as well for external as internal use; and in particular to lay down an approved method of making the extract, or what may more properly be called, according to my form, a mais of pills. But as it hath been very lately afferted, and by a competent judge, that the cicuta major, or hemlock which grows in this country, is not the plant used at Vienna; I must here remark that this is the only fpecies of the genus, according to the Linnæan fystem, yet known to grow wild in Europe. Mr. Philip Miller in-

* Mucor mucedo. Linn. Fl. Suec. 1284. † Acaras Siro. Linn. Fn. Suec. 1975.

deed

deed makes another species; viz. cicuta major foliis tenuioribus C. B. P. * But Bauhine himfelf, confiders this only as a variety of the cicuta major +: which opinion is adopted by Sir Charles Linnæus. Befide, as will appear below in the fynonymes, Doctor Haller, and alfo Doctor Crantz of Vienna who fuperintended the delineation of the plant published by Doctor Störck ‡, agree that it is the common hemlock. Add to all this, that, Doctor Störck having fent a specimen of the leaves of this plant to Mr. Hudfon, both Dr. Watfon and he are thoroughly fatisfied, that it is our indigenous hemlock.

I now proceed to the fynonymes, and defcription of hemlock §.

Conii maculati Synonyma.

Conium pedunculis angulatis nudis trichotomis, receptaculis umbelliferis nudis.

* Gardener's Dictionary. + Pinax Theatri
Botanici, p. 160. ‡ Supplementum de cicuta.
§ Philofophical Transactions.

Conium

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Conium feminibus ftriatis. Linn. Fl. Suec. 238. Sp. pl. 349. Hudfon. Fl. Angl. 100. Gouan. Fl. Mon. 286. P. Miller, G. Dict.

Cicuta. Turner. Herbal. P. i. 140. Pen. et Lobel. Stirp. Adv. 326. Ger. emac. 1061. Merrett. Pin. Brit. 26. Morifon. Hort. Blef. 52. Sutherland. Hort. Edinb. 84. Raii Hift. Pl. 451.
Synop. 215. Haller. Hift. Helv. vol. 1. 337. Lewis. Mater. Med. 210.

Cicuta major, C. B. P. 160. Morifon. Hift. Pl. vol. 3. 290. Sibbald. Scot. ill. P. 2. L. 1. 17. Wallace acc. of Orkney 20. Alfton Ind. pl. 41.

Cicuta vulgaris. Phyt. Brit. 27. Hill. Brit. Herb. 411.

Cicuta major vulgaris. Parkinfon. Theatr. Bot. 932.

Cicuta major vulgaris maculata fætens. Störck. L. de cicut.

Cicuta officinarum. Dale Pharm. 126. J. Miller. Bot. Offic. 138. Alfton. Mat. Med. vol. 2, 113.

Cicuta

Cicuta officinarum et Störckii. Crantz Claff. Umbell. 98. Haller. l. c.
B. Conium feminibus firiatis foliolis tenuioribus. P. Miller Gard. Dict.
Britannis, Hemlock.

Conii maculati descriptio.

RADIX biennis, fusiformis, ramosa, perpendicularis, sublutem.

CAULIS unicus, fiftulofus, tripedalis, novempedalis et ultra, erectus, articulatus, obfolete trigonus, nudus, firiatus, nitidus, læte viridis, maculis et punctis purpureis, fæpe fcabriufculis, denfe fatis afperfus.

RAMI structura caulis, subpatentes, ex foliorum alis ad genicula orti, prope radicem conferti, superiores alterni.

Folia ramorum fitu et numero, petiolata, tripinnata, vel quadripinnata, cum impari, pinnis oppofitis, foliolis lanceolatis, pinnatifidis, venofis, nudis, nitidis, firmulis, fupra faturate, fubtus pallide, viridibus, laciniis ferratis alternis. Floralia oppofita, fimpliciter pinnata cum impari,

pari, pinnis oppositis, foliolis ut in reliquis.

PETIOLI fubtrigoni, fiftulofi, leviter maculati, nudi, niditi, canalifculati, firiati, ad bafin dilatati, fulcati, marginibus membranaceis, appendiculatis, aucti, amplexicaules, ramos fere vaginantes. Pro petiolis fuperioribus, tantum bafis hæc membranacea appendiculata. *Partidles*, fiftulofi, angulati, canaliculati, nudi, nitidi. Canaliculo inter fingulum pinnorum par papillæ glandulofæ plures. Pinnarum alæ, membranulâ primo hyalinâ poft purpurafcente, ornantur.

UMBELLÆ terminales, ex univerfalibus & partialibus compositæ. Pedunculi angulati, nudi, nitidi, trichotomi, subpatentes. Receptacula umbellarum nuda.

UMBELLA universalis e radiis 10-20. inæqualibus patentibus. Partialis confimilis, fed radiis numerofioribus.

INVOLUCRUM universale brevissimum, nudum, foliolis subquinque, lanceolatis, inæqualibus,

inæqualibus, reflexis *partiale* monophyllum, nudum, breve, tripartitum, patens, externe fitum.

PERIANTHIUM proprium, margo crenata.

COROLLA universalis uniformis.

Propria, Petalis quinque, inæqualibus,

obcordatis, inflexis, intus carinatis. STAMINA. Filamenta quinque, fubulata, inæqualia, patentia, petalis longiora. Antheræ fubrotundæ.

PISTILLUM. Germen inferum. Styli duo reflexi. Stigmata obtufa.

PERICARPIUM nullum. Fructus fubcompressus, cordatus, dentato-costatus, bipartibilis.

SEMINA duo, hinc convexa, femiovata, costis quinque, subdentatis, inde plana.

OBS. Radix interne alba, cellulis de fuper excavata. Quoad altitudinem, multum variat hæc herba; nimirum, a quatuor unciis ufque ad pedes novem et ultra, afcendens.—Flores explicat a medio junio: neque prorfus deflorefcit ante calendas januarias.—Semina matura, fertilia, pergunt

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pergunt decidere, ab exeunte angusto ad subsequentem æstatem.

Herba, primum annum, acaulis, radice folida alba; foliis tripinnatis, vel quadripinnatis, nudis, nitidis; petiolis longiffimis, nudis, nitidis, leviter maculatis.

Ex herbis vulgatioribus, in Britannia, eft conium maculatum. Crefcit, imprimis, ad fepes, foffas, et vias: nec non, in ipfis pagorum viis, et hortulis.

Odor totius plantæ virofus. Sapor fubdulcis fubacris.

Of the preparations of bemlock.

We now come to the preparations of this celebrated herb. Thefe may be divided into internal and external. I fhall treat of each in their order; and firft,

Of the powder of hemlock.

This preparation of hemlock hath hitherto been chiefly prefcribed for internal ufe at Edinburgh. Doctors Cullen and Gregory both told me, when in Scotland

land last year *, that as much caution is neceffary in afcertaining the dofe of every fresh powder as if it were a chemical preparation; and that very alarming fymptoms have arisen from inadvertency in that refpect. It is not eafy to affign a reason for this fingularity: perhaps fome parts of the plant may be more virulent than others; the gathering it at different times of the year, or at different ages, may probably alfo occafion a difference; and perhaps all parcels of the herb, collected for powdering, may not have been freed from impurities with equal care. But, most probably, this diverfity of ftrength in the different preparations depends, in a great meafure, on the different degrees of heat employed in drying the herb, previoufly to its being powdered. I know, that if hemlock is dried in the fhade according to the common rule, it will lofe much of its colour and fmell. The fresh herb

* This was written in the year 1772.

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bruifed

bruised turns yellow in a few hours. The expressed juice becomes yellow, and throws up bubbles, in much the fame time. Hemlock therefore flows a ftrong difposition to ferment. In order to prevent this fermentation, and, confequently, to preferve the virtues intire, the herb, when intended for powder, should be dried by a pretty brifk heat. Hence it is probable, that intermediate degrees of heat will produce powder of proportional efficacy. Hence feems to arife the neceffary caution with regard to every fresh preparation. Hence a proper standard for making both powder and extract feems equally wanted. I commonly direct the powder to be made as follows.

Take any quantity of the leaves, footftalks, and tender parts of the ftems and branches of hemlock, about the time that the first flowers are beginning to open; fpread it upon a hearth before a good fire, in a room where in particular dogs or cats have no accefs; and place a deep fender, or fome fuch contrivance, immediately

immediately behind the herb, in order to haften the process of drying. When the herb is fufficiently friable, reduce it to a very fine powder. This, when preferved in phials well ftopped, will retain its efficacy for many months.

We now come to the method of making the pills. They are compounded of the powder and expressed juice evaporated to a certain confistence. This inspissed juice, usually called extract, may still retain the name : but it is to be observed, that I employ it only as an ingredient for the mass of pills. I prefer this form, not only as it keeps better, but also as it probably hath the virtues of the herb in greatest perfection. A sufficient quantity of powder should be in readiness previous to making the extract; the process of which is as under.

Extract of hemlock.

When you are about to make this extract, the plant must be gathered over night; fo that, by beginning very early 0 2 next

next morning, the feveral proceffes of incifion, contufion, expression, and evaporation, may be finished in one day, for the reason already affigned.

The plant may be gathered wherever it is found healthy and rank: though those places feem preferable, where it naturally affects to grow.

The beft age for cutting hemlock, in order to make extract, is that mentioned above; as then the herb is in full verdure, hath fuffered little or nothing from the depredations of infects, and its odour is manifeftly ftrongeft.

Every part of the herb, except the root, and what may happen to be decayed, fhould be taken.

The fubject, thus collected, is to be cut down, and bruifed exceedingly well in a wooden or marble mortar, and then put into hair bags, for expression, by five or fix pounds at a time.

During the expression, the first juice is opake, deeply green, and discovers little odour. But by degrees it becomes lighter

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in colour, till what runs last is of a pale yellowifh green, and is diaphanous. And all along it feems to gain in fmell, what it lofes in colour.

As this is the cafe, the matter fhould be drained of its juice as much as can be; fince probably what comes laft posses in greatest degree the medical qualities of the herb. the clots whi

For this purpofe, frequently altering the position of the bag in the prefs is recommended, that no part of the herb may elude the utmost efforts of preffure : and this procefs fhould be continued till the drops fall very flowly, and the mafs when taken out of the bag appears quite dry.

This expressed juice all along deposites, in part, a yellowish sediment: but the whole is to be used without depuration.

To fave time, as foon as you have got a fufficient quantity of juice to fill your veffel, you may proceed to evaporation; gradually adding more as you get it ready, and and to an over the olatter

and as the veffel can hold it, till you fhall have put in the whole.

The propereft veffel for the procefs of evaporation is a broad glazed platter. This is to be put over a fire of charcoal in a fire pan.

Before the juice becomes very hot it will run into clots, the green part forming the clots which fwim in a brownifh liquor.

As foon as these clots are formed you should begin to ftir the liquor frequently with a bit of hemlock-stalk; and keep up just such a heat as makes them move about, without driving them above the furface, or occasioning any ebullition.

Proceed in this manner till the inteffine motion ceafes from the matter having acquired more confiftence; and then it will be neceffary to ftir it conftantly from the bottom; the rule for the degree of heat now is what raifes a fteam without bubbling or noife.

Go on thus, till, upon fpreading the ftuff to an equal thickness over the platter whilft

whilft upon the fire, you can, with a fpoon, fcrape away any portion from the bottom, while no effort is made by the contiguous mafs to fill up the vacuity.

You then have got extract of a fufficient confiftence, as an ingredient for your mafs of pills. Six pints of juice generally yield one pound of this extract.

Hemlock-pills.

Take of extract of hemlock, as above, any quantity; powder of hemlock, one fifth part: mix them without addition.

This mafs is of a dark green colour, and retains the odour of the fresh plant. The quantity of powder here specified makes the extract of a proper confistence for pills; especially after it hath been kept for a few days, to allow the powder time to absorb the watery part of the mass. And this proportion is the more eligible, that a quantity of hemlock, of the age above mentioned, lost, by drying, exactly four fifths of its weight. Therefore, this mass, prepared with

with fo gentle a heat, and containing the fame proportion of folid matter as the herb, may be allowed to poffers the medical virtues of hemlock without diminution,

The mais of pills, thus prepared, fhould be put up in ftone pots capable of containing about a pound weight each; and covered with fome folds of paper clofely tied down. In this manner I have kept it above two years, of a good confiftence, and without difcovering any tendency to corrupt. I mean however fuch pots as are made in Staffordfhire, and other parts of Britain; for the ware that is imported from Holland, under the name of delfe, will not preferve your composition if it was ever fo well prepared.

Though the folid form be the moft commodious for internal use; yet, as many cannot swallow pills, or boluses, the fame mass may be given in a mixture as under.

Hemlock

Hemlock mixture.

Take of fpring water, eight ounces; proof fpirit, white fugar, each half an ounce; mass of hemlock-pills, from eight grains to eighty or more: mix them.

This is a very fmooth mixture; for the powder, being very fine, is not at all perceived. It ought to be made fresh every day. This mixture may be given by fpoonfuls; or may be divided into draughts, when greater accuracy is required.

The expressed juice can never be used conveniently, for the reason so often given.

An infusion of the fresh herb may be tried. I never prescribed it but once, and found it too flatulent.

Next follow the external preparations of hemlock.

Plaster of hemlock with gum ammoniac.

This plaster hath been long famous. Heurnius * feems to have been the first

* Opera Omnia, Tom. 1. p. 182.

inventor

inventor of it: but it hath undergone many changes fince his time. In moft books the form is very complex; though in fome fufficiently fimple: but, in all that I have feen, little can be expected from the proportion of hemlock that enters the composition. For this reason I confider the following as fome improvement.

Take of gum ammoniac, eight ounces; common vinegar, an english pint: rub them together in a marble mortar (or fir them in a proper veffel over a flow fire) till the gum is diffolved; then incorporate the strained folution with four ounces of the mass of hemlock-pills; and afterwards evaporate the subject, over a very gentle heat, to the confistence of a plaster.

This plafter is of a beautiful green colour; and of a good confiftence, being fufficiently pliable to the fkin, and properly adhefive. The vinegar of fquills is rejected, as having been found too fharp in fome cafes. Indeed I could willingly have ufed water only; but vinegar

negar is retained, as having been often employed; from a fuppofition that it improves the virtue of the plaster.

Ointment of bemlock.

Unctuous fubftances feem, in general, a very improper medium for conveying the virtues of medicines to an animal body, either externally or internally. Befide, I very much doubt whether fuch fubftances can be fufficiently impregnated with a recent vegetable juice; at leaft before that juice hath undergone fuch a heat as fhall greatly weaken its nature. For these reasons I prefer the following form; and can vouch for its propriety in every intention as an ointment of hemlock.

Take of the mass of hemlock-pills, and honey, each equal parts : mix them without heat.

By varying the proportions of this composition, a *cerate*, or *liniment*, can be procured: and a fuitable addition of water

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water will give rife to other forms, as lotions, gargles, &c.

Poultice of Hemlock.

Take of powder of hemlock, two parts; oatmeal, one part; fpring water, a fufficient quantity: let them fimmer together to a proper confiftence; and, when removed from the fire, add a twelfth part of honey.

Or : 10

Bruife any quantity of the fresh leaves of hemlock, with a twelfth part of honey, and as much oatmeal as will be fusficient to make a poultice without heat.

Fomentation of bemlock.

Take of the fresh herb bruised, eight ounces; or, hastily dried, three ounces; boil it for five minutes in an english gallon of water: strain the liquor when cold; and then make it sufficiently hot for use.

I have

I have now finished what I had to fay on the preparations of hemlock; for, as to a diffilled water, infused or decocted oil, fyrup, or conferve, I should be loth to add to the list of forms already too numerous; and which seem at first to have arisen chiefly from a spirit of refinement. I shall conclude with pointing out to the unskilful in botany such characteristick marks of hemlock as sufficiently distinguish it from every other plant of the same class.

All umbelliferous plants are vulgarly called kexes in this country. Whenever, therefore, the herb-gatherer meets with a wild kex, whofe fruit or feeds are covered with ridges, and thofe ridges are indented like a faw, he may reckon for certain that fuch a plant is the common hemlock.—But, as this herb is recommended to be gathered before the fruit is formed, he may attend to the following characters which I have employed for a fpecific name.

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The uppermost parts of the stem and branches of hemlock divide, and fubdivide, into threes; each triple division having a common bafe. Befide, those divisions and subdivisions are angular, smooth, and free from hairs, or down. And it must be particularly remarked, that the very points of the divisions which support the umbells, are also bare, that is, free from all downy or hairy covering .---- This plant, fo specified, is always of a bright green ; hath its ftem and branches, in particular, speckled with purple; is bare; is all over with very little exception fmooth to the touch ; and hath a rank difagreeable fmell.

verie with ridges, and thefe ridges ere

indented like a New, he may reciton for

correin, that fuch a plant, is the common

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