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RED PERUVIAN BARK.

[PRICE TWO SHILLINGS.]



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RED PERUVIAN BARK

IN THE CURE OF

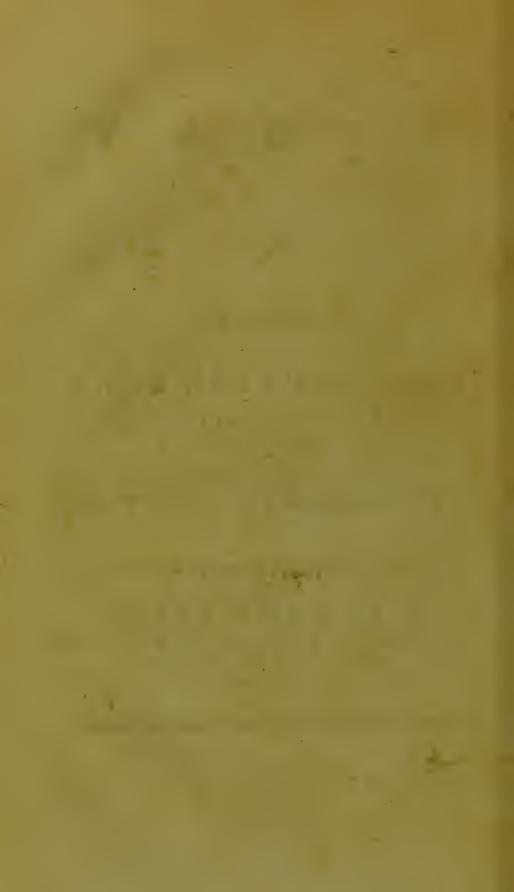
INTERMITTENT S.

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MDCC LXXXIII,



E S S A Y

A N

ON THE USE OF THE

RED PERUVIAN BARK.

A LOVE of novelty, and a readinefs to admit facts upon flender authorities, have perhaps been more injurious to the promotion of medical knowledge, and the improvement of the practice, than any other caufe.

It has been remarked, that many modern practitioners have fhewn a peculiar credulity of this kind, and that it is owing to this circumftance, that fo many new medicines have fo lately been brought forward to public notice, few B of of which have, in any degree, anfwered the high expectations conceived of them, from the warm manner in which they have been recommended to medical practice.

It is obvious, that fuch an eagerness for new medicines as disposes the practitioner to admit them, whether their efficacy be afcertained by much or little experience, must fubject the practice to great uncertainty and frequent difappointment, and that the confequences of this must be not only injurious to the practice in the first inftance, but have a remote tendency to be more extensively hurtful to the art itfelf, by ultimately producing, in many perfons, fuch a reluctance to the use of new medicines, as must be an obftacle to the introduction of those which might become valuable acquifitions to the materia medica;-for frequent disappointments in the use of new medicines, must naturally beget

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an unwillingness to try any more new ones, and experience, even in a few inftances, contradicting the extravagant relations of writers refpecting the effects of medicines, must produce a backwardness to give credit even to the beft authenticated medical histories.

So various are the circumftances which accompany many difeafes, and the caufes of their terminations are fo frequently concealed from the most attentive observer, that where a medicine has been administered but in a few cafes, let the events of them have been ever fo fuccefsful, we should not be hafty in drawing inferences from them refpecting its powers, much lefs in communicating accounts of it to the public; as it must be impossible to afcertain with precifion, whether the fuccefs of the cafes has been owing to the medicine or not. Nothing lefs than the united evidence of fuch a number of cafes in which a medicine

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cine has been given, as fhall comprehend many of the varieties which in different fubjects attend the difeafe, and in which its effects have been uniformly alike, fhould effablifh the reputation of any medicine, and nothing lefs than this will induce the cautious practitioner to adopt a new one.

But when medicines, which are introduced to public notice, come recommended by fuch a teftimony as this, one would imagine that but little oppofition would be made to their immediate and general ufe.

THERE is, however, among thofe, who have been many years in practice, and even among fome of the most liberal and unprejudiced of them, fuch a partiality for those medicines and modes of treating difeases, which they have been long in the habit of using, as renders them very reluctant to adopt any thing new :—Instances of the inefficacy

ficacy, or trifling effects of medicines, which the hafty zeal of improvers has recommended to practice, and magnified into a temporary importance, must tend very much to increase this; and not only make fuch practitioners still more unwilling to deviate from them, but even produce in them fuch an incredulity respecting new medicines, as disposes them to reject every thing new, merely because it is so.

UNFAVOURABLE as this circumftance must be to real medical improvement, there is reason to fear, it is not unfrequently the case; and every instance, therefore, of the use of medicines of real efficacy being obstructed by such a cause, is to be particularly lamented.

I AM forry that this remark fhould be applicable to a medicine of fuch fingular and extraordinary efficacy as the Red Peruvian Bark; a medicine, which, if we confider the nature and frequent occurrence occurrence of the difeafe to which it is particularly applicable, promifes to be more generally ufeful to mankind than any in the materia medica; and which, notwithftanding the fhort time in which it has been known and tried in this country, comes recommended by more decifive experience, and the concurrent unequivocal teftimony of more perfons, than perhaps ever yet honoured any medicine at its firft introduction.

I AM, however, fully convinced, that the general ufe of this valuable drug is much obftructed by this very circumftance; for I know many intelligent gentlemen within the circle of my own perfonal enquiries, and have been informed of ftill more, who appear to reject it upon no other principle, than its being new.—The practice of many of thefe is fo extensive, their reputation fo refpectable, and their influence on other practitioners fo confiderable, that their

7

their refufing it is to be particularly regretted; as I am perfuaded their example must very greatly tend to prevent its beneficial effects being fo widely diffused as they would otherwise be.

THAT upon fubjects of fpeculation and hypothefis, there fhould fo frequently be a difference of opinion among medical people, is not to be wondered at :- We fee theories, the best of which must be, in some meafure, the fabrications of fancy, conftantly fluctuating; the favourite one of to-day, being to-morrow difapproved; and we know that the reputation and ingenuity of peculiar perfons will, for a time, give a value to peculiar fyftems, which of themfelves would have fcarce excited notice .- This always has been, and probably ever will be the cafe, upon fubjects where the imagination is concerned, and which cannot be investigated by actual experiment, or be proved by an unequivocal appeal to the

the fenfes. But that practitioners fhould feem to differ about fimple facts, and fhould maintain oppofite opinions in matters, which experience can fo eafily decide, is peculiarly ftrange, and feems not to be reconciled to that fpirit of liberality, which the profession would, at prefent, lay claim to.

THE many opportunities I have had of proving the efficacy of the Red Peruvian Bark, and of afcertaining that its wonderful powers are uniformly the fame, and my experience of its great usefulness in curing, with such certainty, a complaint which, if not put an early ftop to, will, in many cafes, immediately produce very dangerous confequences, and in most others, will, in time, bring on a train of very calamitous fymptoms; from which likewife, no clafs of perfons is exempt, and with which, moreover, fo large and fo refpectable a part of the community as the labouring poor is fo efpecially afflicted.

9

afflicted, has fo ftrongly imprefied my mind and interefted my feelings, that I fhould not be fatisfied with myfelf, if I did not, in the moft public manner, make known the very great fuccefs with which its ufe has been attended in my practice, and by contributing all in my power to eftablifh its reputation upon the moft pofitive and repeated evidence, endeavour to induce others to make ufe of it.

THE obfervations of Dr. Saunders, upon this fubject, which have been already communicated to the public, contain fo full an account of the properties of this Bark, and fuch very ample teftimony in its favour, as would feem to fuperfede the neceffity of any other publication upon the fame fubject; and any thing written by me upon it may, perhaps, appear particularly fuperfluous, as I have before, in his pamphlet, given very full evidence in its fupport; this certainly would have C been

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been the cafe, had the use of this medicine became fo general as its virtues would have led one to have expected. -There are few books, unlefs upon fubjects of a very popular nature, which fix the attention of the public beyond a limited time; and Dr. Saunders's pamphlet, which has been published more than a year, well as it is written, and important as is the matter it contains, cannot expect the honor of a notice much beyond fuch a period; thefe pages will not, therefore, be without their use, if they ferve no other purpofe, but to recall the attention of medical readers to the Doctor's obfervations, the truth of which will, at the fame time, be still more confirmed, by the fresh proofs of the efficacy of this Bark, which my practice has furnished me with fince that time; and in a matter which must rest totally upon experience, every additional testimony has its value.

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ONE would imagine that those who refuse to admit this Bark into their practice, must have some reasonable objections to it; these objections, however, it is obvious, can be but of two kinds,—they must either positively object to it, from having found itinjurious to the patient, or unequal to the cure of the difease, or they must negatively object to its use, from its being unnecessary; in other words, either the Red Peruvian Bark must want efficacy, or the common Bark must not have failed with them.

WERE the first the cafe, we might have expected that accounts of its failure would have been published, or at least would have been reported, and we should have heard of persons, who, having been disappointed in its application, had relinquished its use; as this has, however, not been the case, we may fairly prefume the fact has not happened, for it is no want of candour to sup-C 2 pose,

12

pofe, that those practitioners who are peculiarly averfe to new medicines, and more especially those druggists, who may be interested in the reputation and sale of the common Bark, would have been very ready to have made known such instances of its inefficacy.

WITH regard to the laft, if those perfons who continue the use of the pale, in preference to the red, do it becaufe they have found no inftances of its failure, they have indeed been fingularly fortunate: But this proves but little, when oppofed to the general accounts of others; for it will be no difficult matter to prove, from the most authenticated general teftimony, which I can likewife confirm by my own experience, that the common Peruvian Bark has within thefe few years, in many cafes, totally failed of ftopping the fit of the intermittent; that where it has done it, it has feldom done

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RED PERUVIAN BARK. 13 it in the ufual time, and it has always required much larger dofes of it than have been heretofore given.

THE various substitutes for Bark. fuch as metallic falts, opium, volatile alkalis, fal ammoniac, myrrh, chamomile flowers, &c. which many phyficians have lately been in the practice of using, in the treatment of intermittents, and the great fale which there has been, within a few years, for quack medicines for the cure of agues, and more efpecially for a popular tincture, which has been proved to contain a very dangerous portion of arfenic, all prove, that the reliance both of the faculty and the public at large on common Bark, has been very much diminished within that time; and certainly, this having been the cafe for fome years past, argues a want of confidence in the powers of common Bark, founded upon fomething more than the cafual opinion, or prejudice of the day. IHAVE

I HAVE now before me a Latin Treatife * on intermittents, written in the year 1780, by a phyfician of confiderable practice, in a country where intermittents are very frequent: having found the common Bark fo frequently fail, he proposes the addition of myrrh and fal ammoniac to it, and gives feveral cafes of intermittents, which did not give way to Bark, administered in the ufual mode and quantity, which he imagines were cured by the addition of the before mentioned medicines, but all which, evidently appear to me to have been removed by his having perfevered a long while in large dofes of the cortex; for he ufually gave a drachm of it every two hours, during the abfence of the fits, for feveral weeks.

THE book begins thus-" Cum illud " medicamentum divinum, magnum il-

* Concise et practicæ observationes de intermittentibus febribus, &c. Auctore Gulielmo Norford, M. D. " lud

" lud Dei donum, cortex peruvianus, " exploratus fuerit, ejusque in lucem " prodierit, fortasse videatur medicis " parum neceffe aliquid amplius anqui-" rere, quo, quenquam febre inter-" mittente laborantem ad fanitatem re-" vocare poffint. Sed cum longo re-" rum ufu appareat, vel corticem peru-" vianum febrem intermittentem haud " femper profligaffe, operæ pretium eft " quærere, quod aliud medicamen in " flatu quopiam peculiari hujufce mor-" bi tuto adhibere poffent medici.-Au-" deam cnim affirmare nullum effe me-" dicum, qui quidem multos annos me-" dicinam factitavit, quem sua de cor-" ticis ipfius peruviani efficacia concepta " fpes non aliquando in febre intermit-" tente fefellerit."

IN cafe I. lie fays—" In primis mali " hebdomadis, fub pharmacopolæ curâ " fumpfit æger corticis peruviani mul-" tum fed fruftra."

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IN cafe III. he fays—" Febre quar-" tanà multas hebdomadas laboraverat " ægra et maximam corticis quantita-" tem fruftra fumpferat."

AND in another cafe—" Varia medi-" camenta diu fumpferat æger, et corti-" cis peruviani multum fruftra."

WITHOUT adverting to the opinion of the author concerning the cure of intermittents, for which indeed I have not made thefe quotations, it muft be admitted, that he bears the moft pofitive teftimony to the failure of the common Bark in many cafes, and to the weak powers of it, even in thofe which appear to have been cured by it, as it required fo large a quantity of it, and it was neceffary to continue its ufe, in fome of them, for many weeks.

My own experience of the common Bark, has, within these few years, sufficiently convinced me of its comparatively

paratively weak powers; for though I am ready to acknowledge, that I have not had a fingle cafe under my care, in which, provided my patient would but persevere in its use in considerable dofes, a cure was not effected; and though were I not in possession of the red, I fhould still confider it as a very valuable drug; yet the neceffity I have found of giving much larger quantities of this Bark than usual, and of continuing it longer, and the many instances, which, notwithstanding this, have occurred to me, of its not putting a ftop to the fit the first time of its application, evidently prove its weaker quality.

AMONG many cafes which I could mention of its not fucceeding in the first intermission in which it was given, a striking one occurred in my own family in the fummer of the year 1779; one of my children, at that time a delicate girl, almost nine years of age, was D feized

feized with an intermittent, attended with delirium and other fevere fymptoms during the prefence of the fever; the intermiffion, however, being perfectly clear, and there being a fufficient length of time, the difease proving a tertian, to admit of the use of the Bark, I began to give it her at the termination of the third fit, and being aware, at that time, of the necessity of giving a large quantity of it,' fhe took more than an ounce of the powder, and almost a pint of a strong decoction of it, before the time of the expected return of the fit, which, however, was not stopped by it, as she had another fit nearly as fevere as the former oncs; -but a perfeverance in the fame large quantity, in the fucceeding intermiffion, proved more efficacious, and the complaint, which was a very formidable one, was happily removed.

I HAVE in my recollection, morcover, the cafes of two gentlemen, who had

had each an obstinate intermittent in the year 1779 ;- they were both under the care of an experienced phyfician, who prefcribed the cortex in various ways and in confiderable quantities, but without being able to put a flop to the fits, or fcarcely to weaken the force of them; at length, being wearied with taking fuch quantities of the medicine, and mortified with fuch conftant difappointments, they were determined to take no more of it, and left their cure to time, and being both men of good conftitutions, and the feafon of the year, it being fpring, proving favorable to them, they recovered as the weather became warmer.

I REMEMBER, likewife, a few years ago, to have attended an elderly lady, who had an intermittent more than a year:—Very early in the difeafe fhe put herfelf under the care of a phyfician, who gave her the com-D 2 mon

mon Bark, but not finding it put a ftop to the complaint, he prefcribed various other medicines, among which were myrrh, fal martis, columbo root, and opium, and many of which she continued to take for feveral weeks fucceffively, but without the least interruption of the fit; he then orclered her to take Bark again, and to perfevere in its use for a long while :- Accordingly, fhe took a ftrong decoction of it three or four times a day for feveral months, but still without efficacy; at length, fhe took it in fubftance, and in a much larger quantity than fhe had before taken it, and from continuing it a long time, fhe had the good fortune, at last, to obtain a cure.

I DOUBT not but numberless inftances might be collected, if not of the absolute failure of the common Bark, at least of its not stopping the fit with certainty the first time of its being applied, and I will venture to fay, that those

thofe who continue the ufe of it cannot be without inftances of the latter; indeed, I have lately been informed, by the patients themfelves, of two recent cafes, which were under the care of a gentleman, who cannnot be fufpected of administering any medicine carelefsly, or improperly, in one of which two ounces of the common Bark were given without stopping the fit, and in the other one ounce was given without better fucces.

But it must be needless to infift upon further proofs; as those which I have already adduced, joined to the many flrong ones contained in Dr. Saunders's Pamphlet, establish the frequent inefficacy of the pale Bark, beyond a posfibility of contradiction.

I SHALL therefore proceed to the immediate fubject of these pages, namely, to confider the medical qualities of the Red Peruvian Bark; but

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in doing this, I mean not to fay any thing about its natural hiftory*, to do which

• WHEN I first read Dr. Saunders's Pamphlet, and found that he and his correspondents confidered the Red Bark as the produce of the fame tree from which the Pale was obtained, but that the latter was taken from ' the fmall branches, and the former from the trunk and large branches, the account feemed fo probable, and the opinion fo much favoured by the analogy of oak bark, and the observations of tanners on the difference between that of the fmall branches and that of the trunk, that I readily admitted it; but having fince that time thought more upon the fubject, I cannot now help fufpecting that it is a different species, and that the reasons given for the contrary opinion, are not quite fatiffactory.

It is intimated in feveral parts of the Doctor's Pamphlet, that the Red Bark was the bark which was originally known and ufed in Europe, and that the introduction of the pale was owing to the natives, who gathered it, having experienced that, in taking it from the trunks and larger branches of the trees, the trees were deftroyed by it, and that they therefore afterwards took it only from the finaller branches; or from very young trees, whofe bark was finaller and paler, and that the merchants who fold it had the addrefs not only to reconcile medical people to the ufe of this, but even to perfuade them to prefer it : But if true,

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which with any degree of accuracy, I believe we are yet, by no means, furnished

it muft be one of the moft extraordinary circumflances which ever occurred in the hiftory of the materia medica, that after having been for a confiderable time in poffeffion of the beft fort of a drug, not only one country, but that every nation in Europe, fhould be induced to prefer the worft to the beft, and ftill more fo, that this fhould be the cafe, with regard to a drug, concerning whofe efficacy there could not be long a difference in opinion, as the experience of fo many perfons, who lived in fuch various places, muft very foon have proved its inferiority:—Nothing but the accidental circumftance of intermittents being, at the time in which the impofition was firft practiced, very infrequent, and remarkably eafy of cure, could have rendered this poffible.

BESIDES, the idea, of lopping the trees and ftripping the branches only with a view to faving the trunks, from whence branches might again fpring, which is evidently taken from a cuftom which takes place in countries where land is dear, and where every tree having been raifed by art, is of confiderable value, does not appear to be applicable to the place where the Bark Tree is found; for on that part of the continent of South America there muft be immenfe tracts of land, which never have been cultivated, and which are of little or no value, and on thefe

furnished with fufficient materials; nor do I think it necessary to give the chemical

thefe, probably, there are great natural forefts, perhaps even of the Bark Tree itfelf, which, if fo, cannot be likely to be exhausted for ages, if taken down for no other purpose than to furnish Bark, and, consequently, it must be very improbable, that this practice of taking the bark from the branches only should take place.

BUT fuppoling that the Bark Tree is rather fearce, if the accounts of the first writers deferve credit, a fearcity of the Bark is not likely, even from that circumstance, foon to take place, as it appears that, like the bark of the cork tree, it grows again, and a fresh fupply is obtained from the fame tree in a little while.

THE account which favours this opinion I have taken from Dr. Oliver's defcription of the Jefuit's Bark, in the fourth volume of the Abridgement of the Philofophical Transactions, and is as follows :—" Peruvian " Bark comes from a tree about the bigness of a plumb-" tree, with leaves like ivy, but not quite fo big, and " are always green.—The Indians call it querango.—It " is gathered in autumn, and the rind takes off all " round as well from the trunk as boughs, which grows " again in four months, as cork does. The trunk is " about the bigness of a man's thigh; it bears fruit " not

RED PERUVIAN BARK. 25 chemical analyfis of it, which perhaps would ferve as little in the inveftigation

" not unlike a chefnut, except in its outer rind, " or fhell, which is properly called China china, and " is effeemed by the natives beyond the bark taken " from the trunk or boughs.

"THIS account I received from an ingenious apothecary at Cadiz, in Spain, in the year 1694, who had lived in Peru, and had feen it growing, and had gathered it feveral times.—From which hiftory I made this obfervation, that probably China china, or the rind of the fruit, was first only in use, and the more powerful medicine used in finaller quantities, and that the bark of the tree came not into use until fome time after, when the virtues of it being more known in Europe, occasioned a greater demand for it."

But admitting that the above account is not fufficiently authenticated, and that the bark does not grow again as is there mentioned, furely in the very climate, where nature originally planted the tree, and in which it must confequently flourish most, it must be a very eafy matter to propagate it, and raise plantations of it; and in a country, where, as before observed, it is probable, the land has very little value, is it to be supposed that a tree which produces so important an article

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tion of its medical qualities; but shall fimply confine myself to an account of

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in commerce, would not be an object of cultivation, as well as indigo, or the fugar cane?

THAT there are different fpecies of the bark-tree, various writers teftify, and is fully proved by a late account of Quinquina, publifhed in the Hiftory and Memoirs of the Royal Society of Medicine at Paris, in which are given reflections on two kinds of Quinquina,' newly difcovered in the environs of Santa Fè, in South America; one of which very much refembles the Red Bark which is the prefent fubject of enquiry, and I cannot help conjecturing is the fame thing; but will give an extract from the account as it appeared in the appendix to the Monthly Review for July, 1783.

"HERE we have the fum and refult of the report made by Mefficurs Daubenton, Macquer, Bucquet, De Juffieu, and Cornette, who were appointed to examine the difcovery in queffion.—This piece is adapted to excite diffidence and fufpicion with refpect to the Peruvian Bark which is fold in the fhops. The feveral kinds of bark are fo different in their ftrength and efficacy, that it is no wonder we fee fevers often refifting this excellent remedy. M. de la Condamine, who was upon the fpot where the tree flourifhed moft, defcribed three kinds of Quinquina; the red and yellow, which are the moft effeemed, and of its effects, as they have appeared to me in the actual use I have made of it in

" and the white, which is not effeemed at all. M. " de Juffieu, who was also upon the spot, and exa-" mined the tree and its bark with a botanical and me-" dical eye, admitted a larger division of kinds, which, " he nevertheles, reduced to two principal ones. Un-" der the first, he comprehends the red, yellow, and " knotty Quinquina, which have all fmooth, purplifh, " almost inodorous flowers, and a bitter bark, more or " lefs coloured. Under the fecond, he comprehends four " fpecies of white Quinquinas, which are all diffinguished " from the former, by having rough, red, ftrong fmel-" ling leaves, having within, fruits larger in fize, and " the exterior bark whitish. In two of these, the bark, " when recent, has, though in an inferior degree, a febri-"fuge quality, which it foon lofes. In the two " others, whofe flowers exhale the fineft odor, the bark " is infipid and without the leaft efficacy.

"As the Red Bark was become very fearce, the difeovery of two kinds of Quinquina at Santa Fè, in $4\frac{1}{2}$ degrees of northern latitude, is a matter of great importance. The firft, which refembles the red Quinquina in its leaves, is pronounced by our examiners to have all the excellent qualities which recommend this remedy; fuch as odour, bitternefs, flipticity, a facility of being diffolved in the different menftrua, and the abundance and the exact combi-E 2

in the various kinds of intermittents; and I confine myfelf principally to its ufe

"nation of its mucilaginous and refinous principles. "The fecond is rejected on account of its refemblance "to the white Quinquina. The difcovery of the "Quinquina tree at Santa Fè, will not only procure a great abundance of this precious bark, but alfo render its transportation more expeditious and easy, by a river, whole mouth is near the harbour of Carthagena."

WHETHER the bark lately difcovered at Santa Fè be the fame as that which we are now in poffeffion of, or not, it is evidently a good bark, as refembling the red Quinquina, and it being further evident, that the opinions of M. de la Condamine and M. de Juffieu, coincide with experience, in proving that the Red Bark is the moft efficacious, and the white the leaft fo, may we not conclude that the pale, or common Bark, is a different fpecies from either of them, and as holding an intermediate place between the two before-mentioned kinds, has only a proportional efficacy ?

BUT after all, whether the Red Bark be a different fpecies to the pale, or not, or whether the pale, at prefent in ufe, be the fame as what was formerly known, or even whether the uncertainty of curing intermittents with the pale, which has principally been obferved within a few years, be owing to the drug, as a natural production,

ufe in intermittents, becaufe, in whatever other difeafe it may be applicable, the experience of it in this difeafe muft be the teft by which its efficacy is moft certainly proved; for in no other difeafe does the certain effect of a remedy fo obvioufly follow, its ufe, as in the intermittent.

THE removal of putridity in malignant fevers, the putting a check to the progrefs of a gangrene, and the reftoration of vigor and tone to the habit, when debilitated by long continued fevers, or exceffive difcharges, are all gradual operations; and though

production, having degenerated, or the difeafe having within that time become of a worfe kind, it is comparatively but of little confequence to determine; for though the knowledge of it would much gratify the curiofity both of the naturalift and the phyfician, yet, it is fufficient for all the purpofes of medical practice, to have it proved, that the red, which has been lately brought into this kingdom, is much more efficacious than the pale, which has for fome time paft been ufed, and is at prefent fold by druggifts.

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we may in most instances, where the cortex is administered in those difeases, be allowed to attribute the favourable change of fymptoms to its falutary influence on the conftitution; yet, as the precife time of its operation cannot be afcertained, it is impoffible to fpeak decifively of its effects; whereas in this fingular disease, where there is a fixed period for the recurrence of the paroxyfm, and in which the experience of former fits, makes the return of others almost a certainty, if when a due quantity of this medicine has been previoufly administered, the fit should not return, the prevention of it may, with as much certainty, be attributed to its influence, as that fleep fhould in any cafe be confidered as the effect of an opiate, or that a vomiting fhould be occafioned by a dofe of ipecacuanha.

WE may therefore make no fcruple in concluding that Bark to be the beft for all purpofes, which in the fmalleft quantity,

quantity, and with the greateft certainty, puts a ftop to the fit of an intermittent; and no one will, furely, hefitate to give that the preference, in every difeafe in which the Bark is ufually exhibited, whofe fuperior efficacy has been eftablifhed by fuch a criterion.

IN October, 1781, I first received a fpecimen of the Red Peruvian Bark; it was a fmall quantity for trial, and not more than fufficient to make the experiment with in two cafes, which, out of feveral, which were then under my care, I felected as being the worft; the one was a quartan of many months flanding, the patient, a boy about eleven years of age, very much worn down by the difeafe; the other a quotidian of nearly as long a date, the patient a young woman, eighteen years of age, and whole conflitution was also much impaired by the long continuance of the complaint ; to both of them, after their ftomachs had been cleared

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by tartar emetic, given at the approach of the fit, I gave, in the intermission which followed, an ounce of it divided into twelve dofes, all of which were taken before the period of the expected returns of the complaint, the intermediate time in which the dofes were taken, being pretty equally divided; both loft the fits, and though they took no more of it, for they had taken nearly all which was fent me, they had no return of them until many weeks after, when the weather proved very wet, and then the fits went away without their taking any more of this or the common Bark; for they were both at this time removed to fuch a distance in the country as not be able to fend to me.

My fuccels in these cases induced me to procure a confiderable quantity of it, as from these trials it appeared to be, at least, as good as the common Bark, and as foon as I received it, I made

RED PERUVIAN BARK. 33 made use of it in feveral tertians then

under my care, in all which it anfwered the intended purpofe.

About this time I had a patient, a gentleman about fifty years of age, who had had a quartan more than three months; he had been endeavouring to cure himfelf by a variety of popular receipts, among which was one which contained a confiderable quantity of the common Bark; when I first faw him, it was the day after he had had a fit, but he was then much indifpofed, his pulfe was too quick, he had no appetite, and was much reduced; he took a faline fever medicine and an opening draught before the next fit, at the approach of which I gave him a grain of emetic tartar, which vomited him confiderably, and he repeated half a grain of it every three hours until the fever terminated, which, though it lasted a long while, went off with a greater and

34

and more general perfpiration than was ufual at the close of the former fits.

I NOW thought it right to begin giving him the Bark, but his intermission not being quite so perfect as I wished it, and moreover, my not having yet had a sufficient number of cases, in which I had given the Red Bark, fully to establish its reputation with me, I thought it most prudent to give the common Bark, of which he took two fcruples, at fuch intervals during the intermission, that he got down more than an ounce and a half of it before the time of the expected return of the fit, but it did not fucceed, and he had another fit fully as fevere as the former ones; I then refolved to make the next trial with the Red Bark, an ounce of which was taken in the courfe of the fucceeding intermission, and in doses of two fcruples, and this ftopped the fit; I prevailed upon him to continue its use in the fame dose, three times a day

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day for a little time, which he did till he had taken two ounces more of it, but he has taken none fince; and though his employment exposed him at that time very much to the weather, and he was foon after frequently wet, yet he had not the flightest return of the complaint.

FROM that time to the prefent, I have confidently given it in every cafe which has been under my care, and its use has been invariably attended with the fame immediate fuccefs; and though I have administered it in every species of the intermittent, and have given it to patients under the greatest variety of circumstances, refpecting age, conflitution, date of the disease, &c. and more than two hundred and fifty perfons have taken it under my direction, yet it has not failed in a fingle cafe to flop the return of the paroxy fm in the first instance of its application.

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In the number of those who have been cured by it, were feveral whofe legs were much fwelled, and their bodies hard, and who appeared to be rapidly hastening into dropfies; in many of them the fits were fo fevere, and of fuch long duration, other unfavourable circumstances likewife occurring, that I am perfuaded if the difease had not been put an early ftop to, it would have terminated in a hazardous fever. -More than thirty were young children, and fix or feven were infants not a year old.—A confiderable number of my patients, moreover, being poor and ignorant people, and fome of them living at fome diftance from Norwich, to whom I could only give general directions, as it was imposfible for me to attend them, it may be eafily fuppofed that most of that class took it carelessly; and I recollect one perfon, a ftrong country girl, about feventeen years of age, who took an ounce of it at two doses,

dofes, yet all of them were immediately cured.

As the tafte of this Bark is fo much ftronger, and more pungent than that of the common Peruvian Bark, I have been furprized with what little reluctance my patients have usually taken it, and more efpecially that children should have gotten it down with fo little difficulty; I believe, however, that it nauseates much less than the pale Bark; and many of my patients, who upon former occasions have taken the pale, have affured me that they preferred the tafte of the red :- Should further trials confirm this, it will be found no trifling circumstance in favour of the red, particularly in its use with young children, as it is well known what trouble has ufually attended the administering Bark to fuch patients, and that it has been in fo many inflances found impracticable to do it, as to produce various contrivances to get it into the circulation by other means, fuch

38

fuch as injections, long continued applications of it to the body in Bark waiftcoats, &c.

I HAVE likewife, hitherto, in every inftance, given it fimply in fubftance, not once having, for the above reafon, found it neceffary to join any thing with it by way of covering the tafte; nor having ever yet judged it proper, on account of any fymptoms accompanying the difeafe, to add to it any other medicine: the advantage in giving every medicine uncombined, or unchanged by any process, is fufficiently obvious, and is more especially fo, when we wish to afcertain with precifion the powers and properties of a new one.

THE dofe in which I have ufually given the Red Bark, has been two fcruples, and the quantity which I have always endeavoured to get down before the time when the fit was expected, has has been one ounce to adults, and a proportionable lefs quantity to younger perfons and children; but I am perfuaded that this is more than in most cafes is neceffary .-- I am convinced of this, not only from what Dr. Saunders has faid on the fubject, and from the cafes mentioned by feveral of his correfpondents, but in my own practice, from many of my patients having obtained cures by taking much lefs of it than was directed by me: my reason for not giving a fmaller quantity of it than the above, which has not in a fingle inftance been fallible, was my with not to run the rifque of its failure, by giving a less quantity, until the reputation of the medicine was fully effablifhed, and its use become general.

MUCH has been faid by different writers, and various opinions have been entertained, refpecting the part of the Bark in which its medical quality principally refides; but whether the exter-

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nal, or internal coat of it be the beft, or whether its, efficacy be chiefly confined to the refinous part, with which indeed the red feems most plentifully to abound, I am not competent to fay, and it would be perhaps very difficult, if not impossible to ascertain: an accidental, and indeed a trifling circumftance in my use of this Bark, would feem to prove, either that its virtue is equally distributed in every part of it, and that the outer and the inner Bark, the fineft and coarfeft particles, that which is most brittle, and that which is most tenacious, are equally proper for medical purpofes; or that if there be a difference, the dofe in which I have given it has always been so large, that even when I used the greatest quantity of the worst of it, there was still enough of the best to answer the purpose of a cure.

HAVING, for very obvious reafons, always bought the Red Bark in its rough

rough flate, I have had it powdered at home, and from not knowing in what part its quality most refided, I always directed that a certain quantity of it should be powdered at once, the larger and fmaller pieces being indifcriminately taken, and that the particles which most easily passed through the fieve, fhould be perfectly mixed with those which required more beating, and were longer in paffing through, and when the whole was powdered, that it should be well mixed together, fo that the powder finished . for use might be equally composed of all the various parts of the Bark: For many months, however, it happened, from the inattention of the perfons to whom this business was entrusted, that fome of my patients took only that which came first through the fieve, that others took what next came through, which must confequently be fome degrees more tenacious as it refifted the first beating, and that even fome took G only

only what must have been principally the more gross and ligneous parts of it, I mean that which is most difficult to reduce to powder, and which even in the common Bark, is by many perfons usually left for decoctions.

THE fuccess with which my first use of this Bark was attended, was fuch as to flatter me there was but little occafion to continue giving it after the fit was once ftopped; but though I have not found this to be abfolutely the cafe, and have therefore always directed my patients to continue its use two or three times a day for ten days or a fortnight, yet I am perfuaded that its preventive power, if I may fo exprefs myfelf, remains longer with the patient, than is the cafe with the pale, for out of the great number who have taken it, many of whom I know could not be prevailed upon to take it more than a few days, and fome not at all after the fit was stopped, but fix or feven

feven inftances have come to my knowledge of its having returned within the month.

IT is the practice, I believe, with fome perfons, not to continue the use of the Bark every day after the fit has been put a ftop to, as they imagine that its effect on the habit is more fenfibly felt by omitting it entirely until fome time between the tenth and fourteenth day after it, and then by giving it in as large a quantity as when first taken; and I find in Dr. Saunders's pamphlet, that my ingenious friend Mr. Sherwen, of Enfield, intimates that the daily use of it may fo habituate the conftitution to its effects, as to render it useles at the time when the fit is most likely to return ; meaning about a fortnight after it has been flopped.-Without my pretending to fay that the mode I have hitherto adopted in giving it after the fit has been flopped, is better than the other I have just mentioned, and much

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lefs without entering into the principle of its action in either cafe, I may certainly conclude, that the fuccefs attending it in the way I have given it, proves that the daily ufe, at leaft, of the Red Bark, does not render the conflitution fo infenfible to its effects, as to endanger the return of the fit at the end of the fortnight, as I have not had a fingle inftance of its return at that period, where it has been taken two or three times a day until that time.

It would be abfurd to expect that this, or any other medicine fhould protect the patient from future and more remote attacks of the complaint, for when the fame return of feafon, and the fame peculiar flate of the atmofphere which first induced the difeafe, fhould again take place, is it to be wondered at that the fame complaint fhould again make its appearance? but unavoidable as this appears to be, and more

more especially as it is in some fituations, how much is the evil of it leffened, by our being in possession of fuch certain means for putting a stop to its pernicious effects?

IT would be needlefs and tedious to enter into a detail of all the cafes which have occurred to me fince I have used the Red Bark, nor can it be neceffary to give even a catalogue of the names of all the perfons who have been cured by it; yet as the circumftances which tend to recommend a new medicine cannot have too great a notoriety, I will, as they occur to my memory, give a lift of fome of the perfons in this neighbourhood who have been cured of intermittents by this Bark, the fituations of most of them rendering them well known here; and fome of the cafes having been, moreover, attended with fome peculiar circumftances, which made them very ftriking inftances of its efficacy, I fhall likewife

46

wife felect fome of fuch, and fubjoin a brief hiftory of them.

Lift of perfons who have been cured by the Red Peruvian Bark *.

Mr. Thomas Smith, quartan; Mr. Garland, tertian; Mr. Carter, jun. tertian;

* WERE it neceffary to make an apology for thus publickly mentioning the names of fome of my patients who have fuccefsfully taken this Bark, I prefume the obvious reafon which induced me to do it, would be a fufficient one.

THE reputation of a medicine can reft upon nothing but the actual experience of its ulefulnefs, and the teftimony of this cannot be authenticated but by an appeal to the perfons who have been the fubjects of that experience; for the mention of thofe who have taken it, merely in round numbers, be the amount ever fo large, and the writer's veracity not the leaft queftioned, can never be fo fatisfactory to the public, as the perfonal proofs of the parties themfelves, who thus become witneffes to it.

SHOULD there be, moreover, any who are difpofed to cenfure my taking this liberty, as being unufual with medical

tian; Mr. Ph. Money, Trowfe, tertian; Mafter Money and Mifs Money, quotidians; two children of Mr. Barham, at Kirby, quotidians; Mr. Oliver, tertian; Mrs. Taylor, tertian; Mr. Kettle's daughter, of Colney, quotidian; Mr. Howlett, of Earlham, tertian; fervant of James Crowe, Elq. quotidian; fervant of J. Gay, jun. Elq. tertian; fervant of Mr. Bloom, of Trowfe, tertian; Mr. and Mrs. Clift, tertians; Mifs Clift, tertian; fon of Rev. Mr. Anfdell, tertian; Mr. Dixon, tertian; Master Webb, quotidian; Miss Kett, quotidian; Master Bunn, quotidian; Mrs. Denny, of Shottifham, tertian; Mr. Wright, of Bracondale, irregular;

medical writers, and countenanced only by the loweft order of the profeffion, the authors and venders of noftrums;—to thefe perfons, however I might be hurt by fuch a cenfure, I can offer no other reafons for it, than that it appeared to me abfolutely neceffary to eftablifh an important matter of fact, and I truft that the most candid even of them would, upon reflection, admit it as a proper one.

Mr.

Mrs. Glover, of Kirby, tertian; Mr. Smith, of Burlingham, quartan; fervant of Sir Lambert Blackwell, Bart. tertian; Mifs Day, tertian; Mrs. French, quotidian; Mr. Hirst's maid, quartan; Mr. Turner's fon of Trowfe, quotidian; Mr. Thomas White, irregular; Mr. Peake, tertian; Mr. Oliver's maid, tertian; Mr. Holywell, tertian; Mrs. Clarke's child, quotidian; Mr. Francis Sillis, tertian; Master Grout, tertian; Mr. John Bafeley's maid, tertian; Mifs Kitton, tertian; Miss Bardwell, quotidian; Mrs. Ann Day, quartan; Mrs. Wolverton, tertian; Mrs. Gittens, tertian; Mifs Gittens, tertian; Mifs Forder, tertian; Mrs. Garland, tertian; Mr. Shepperson, tertian; Mr. White, of Keffingland, irregular; Mr. Carter's maid, tertian; Mifs Newton, Palgrave, quotidian; Mifs Burks, tertian; two children in the neighbourhood of Mrs. Gurney, at Bramerton, and at her request, quotidians; Mr. Pratt's child, tertian; feveral children at Hetherfet,

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at the requeft of Mr. John Browne, quotidians; Mr. Fifh, of Poftwick, tertian; Mifs Garland, tertian; Mifs Wright, quotidian; Mr. Coke's coachman, irregular; Rev. Mr. Wells, tertian; Mr. Betts's daughter, at Trowfe, tertian; Mafter Edward Thompfon, tertian; Mr. Larkman, of Colney, irregular; Mr. Sillis's Servant, irregular; Mr. Bacey, quotidian.

CASES of perfons cured by the RED PERUVIAN BARK.

Cafe in which the intermission was short, and the principal quantity of the Bark was taken very near the time of the approach of the fits.

IN August, 1782, I visited a gentleman about twenty-five years of age, he was robust and of a full habit: he had had an irregular intermittent H about

about a fortnight; it began as a quartan, of which he had three fits; it then became a quotidian, and he had three or four more fits ; I faw him about the time when it began to come every day, and I found the fever, the fit being then upon him, was very confiderable; the ufual treatment, which I need not particularife, was made use of, until he appeared to be in a ftate to take the Bark: the fit, after which he was to begin to take it, terminated about ten o'clock at night, and its return was expected the next day between twelve and one at noon. The time of the intermission being short, he began to take it in dofes of a drachm each.-I had a meffage from him early in the night, that it difagreed with him, and that he could not keep it down; I defired him to perfevere, to confider what he had thrown up as loft, and to fupply its place with another dose: between five and fix o'clock in the morning he fent to me again, and defired

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51

defired me to go and fee him; I found him much fatigued for want of fleep, which he had been entirely hindered from getting, by his repeated endeavours to take the Bark, every dofe of which, except the first, had been rejected, and he feemed convinced that his ftomach would not retain it: I prevailed upon him, however, to take half a dofe of it, and this kept down; I staid with him for fome time, and half an hour after his taking the first half drachm I repeated the fame quantity, and this likewife kept down; I then left him, defiring him to continue it every half hour, in the fame dofes of half a drachm.-Between eight and nine o'clock I was fent for again to him, and he gave me the fame account of its coming up again as before ; notwithftanding which I ventured to give him another dofe, which he immediately threw out of his mouth, before any of it could have been swallowed; obferving this, I was more particular in H 2 enquiring

enquiring in what manner the former dofes had been vomited up, as he called it, and from the attendant's account I was convinced that what he imagined to have been vomited up, had never been fwallowed; by this unlucky mismanagement of himself, he had taken but two drachms and a half of the Bark, inftead of five drachms, and there remained five drachms and a half to compleat the ounce, which was to be taken in little more than three hours; however, I was determined he fhould perfevere, and immediately gave him another drachm of it, as I was no longer under any apprehenfions of its coming up, being fully fatisfied that all had been retained which had been actually taken into the flomach; this kept down, and by ftrictly attending him with a dofe every half hour, or at leaft every three quarters of an hour, the whole was gotten down before the time of the expected return of the fit, which happily prevented

RED PERUVIAN BARK. 53 vented its coming, and he had a very fpeedy recovery.

THE night having been entirely without fleep, and the patient having been exceffively fatigued and fretted by his many fruitlefs endeavours to take his medicine, were very unfavourable circumftances in his fituation, and prevented his fever from going off fo perfectly as it did in the former intermiffion, for he was much hotter, and his pulfe quicker than was to be wifhed, when taking Bark: however, the event fully juftified my perfeverance, and ftrongly proved the efficacy of the medicine.

Cases in which a very small quantity of the Bark put a slop to the fit.

AMONG the many poor people to whom I gave the Bark in the autumn of 1782, was a child about eight years old

old, who had had a quotidian more than two months, and was directed to take half an ounce of the cortex, between the fit, which was to terminate on a monday noon, and was expected to return the day following, about the fame time: on the faturday following, the child's father came to inform me that he was cured: upon enquiring how the child had taken it, I was furprifed to find that he had not then finished the half ounce; for when I told him that I meant the child fhould have gotten the whole quantity down in one day, he faid he had understood before, that I had directed it to be taken between the monday and the faturday night, fo that it is probable the child could not, the first day, have taken more than one drachm of the medicine, which it is clear, proved fufficient to ftop the fit.

IN September, 1783, Mafter — a young gentleman about two years of age, was fuddenly feized with a very

55

very fmart convulsion fit, it lasted many minutes, and was fucceeded by great heat and reftlefsnefs, which continued many hours and went off with a confiderable perspiration:-within twentyfour hours from the first attack, there was another return of the convultion, attended with the fame confequent fymptoms.----The day following he was to appearance as well as ufual, but the following morning, an equally ftrong convultion came on, and was followed by the fame fever as at first, and went off likewife by fweat :- being in the country at the time when these fits happened, he was brought to Norwich the day after the laft, on which, being his beft day, I found him free from any complaint.

BEFORE the next morning the fit returned, without the convultion, but in other refpects with great feverity.— The difeafe being now evidently an intermittent, and the two last fits being clearly

clearly of the tertian type, I ordered the Red Bark to be given him upon the going off of this fit :-- I proposed his taking three drachms of it, in half drachm doses, before the time when the fit was again expected; but he took lefs than a drachm and a half, which I imagined would have had no effect upon him, however, it fo far ftopped it, that the time of its return was observed only by a reftleffnefs and heat, which were not of long duration :---He was prevailed upon afterwards to take three or four doles of half a drachm each every day for feveral days, after which he had not the least return of the fit, and his recovery was quick and perfect.

Cafes in which the patients had hectic fymptoms.

Miss ——— is about twenty-feven years of age, fhe has a weak conflitution,

tution, and has always been fubject to a cough and affections of the lungs, complaints to which all her family have been particularly liable, two or three of her brothers and fifters having died of true pulmonary confumptions.—In the fpring of 1782, having refided fome time in a marfhy country, fhe was attacked with an ague, which in a very little time reduced her extremely, and very much aggravated all her other fymptoms. She came to Norwich for my advice, and was exceffively fatigued by her journey.

I FOUND her in a very weak ftate, the fits were very fevere ones, lafted a long while, and were irregular in their periods, but moftly recurring every day; her pulfe was exceedingly quick, even during the whole of the intermiffion; fhe coughed much and difcharged from the lungs, as indeed I had more than once before obferved in I former

former attendances upon her, what had a very fuspicious appearance, though I could not pronounce it to be abfolutely pus.—The intermittent being the disease which seemed more immediately to affect her, and all her other complaints being plainly increafed by it, I thought it right to give her the cortex, but not without fome doubt about the fuccess of it, and some hefitation as to its propriety in the flate she was then in;-however, after a long and fevere fit, fhe began to take it, and got down almost twelve doses of two fcruples each ;- the fit was at once ftopped by it, the other complaints immediately abated, and the has enjoyed fince that time rather better health than ufual.

Miss ——— is a young lady of a very delicate conftitution; fhe has weak lungs, and for feveral years paft has

has occafionally had hectic fymptoms. In September 1782, when for feveral weeks past she had been indisposed with a cough and flight fymptoms of feverishness, she was feized with a quotidian intermittent ;---the fits were very fevere, and of long duration, and ended with exceffive perspiration; fo that having had feveral fits when I first vifited her, I found her very much reduced and weakened, by it; there was a very peculiar quickness of the pulse, which evidently indicated the hectic difposition of the habit, and this continued during the abfence of the fever. I gave her medicines which emptied the ftomach and bowels, but found the fits came on fooner and lafted longer, and plainly threatened the utmost danger, if they were not foon put a ftop to; I ventured therefore to administer the Bark, but not without much anxiety, as the intermiffion was very imperfect, and the pulfe had still a very formidable quickness: She began to take it I 2 late

late in the evening, after having had a very fatiguing fit; fhe was unable to get down more than nine dofes of two fcruples each, making together fix drachms of the Bark, before the evening of the following day, at which time the fit was again expected; but this ftopped the fit, and from this time her recovery was very quick, the formidable fymptoms before mentioned leaving her immediately.

In the month of March of the prefent year, the weather being remarkably cold and wet, the fame young lady was again feized with an intermittent, but at this time, though fhe had been poorly for fome days before the attack, fhe was free from her cough, and had fewer of those fymptoms which feemed to belong to her conftitution, than in the former attack; fhe fuffered herfelf to have feveral fits before fhe fent for me, and was reduced, if poffible, more than on the former occafion,

occafion, and the intermiffions were more indiffinct, infomuch that nothing but the fingular fuccess of the Bark in the former instance, would have induced me to have given it her now. It was very difficult to mark with accuracy when the fit terminated, and during the whole of the intermission, the pulse, tongue, and urine, were fuch as with most perfons would have utterly forbidden the use of the cortex; but on the other hand, there appeared to be an abfolute neceffity for the immediate ftopping of the fit, as the complaint gained ground rapidly, and every fit fhattered her fo much, and left her in a state of fuch extreme weaknefs, it being fcarce poffible to keep her from continual fainting, that it was evident there would have been the utmost hazard in fuffering the complaint to continue, and even fuch was her extreme feebleness, another fit might have been been fatal to her.

61

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I FEARED, however, that fhe would not have been able to have taken a quantity fufficient for the intended purpose, or that her stomach, in her very weak state, would have rejected it; but though fhe was able to get down no more than feven papers, (little more than half an ounce,) before the time of the expected return, and though fhe had feveral formidable fainting fits, during one of which I was fent for, her friends imagining her to be dying, she was so fortunate as to escape the fit, and to obtain a compleat recovery, though more gradually, with regard to her ftrength and spirits, than on the former occasion.

MR. W—— is a tall thin young man, about eighteen years of age; he has been for years fubject to frequent coughs, and a brother of his died fome time ago of a confumption; having in the year 1782 lived fome months in a marfhy

63

marfhy part of Suffolk, he was in october attacked with an ague, which foon brought on an increase of his cough; he took the common Bark and other medicines, under the management of a furgeon, but without being able to remove the intermittent, and he became in a few weeks fo reduced by it and his cough fo much aggravated, that his friends apprehended him to be in a confumption, and he was fent to Norwich to be put under my care.

I FOUND him very pale and much emaciated, he had totally loft his appetite, his nights were reftlefs, cough troublefome, and his pulfe always very quick; there was great tendernefs on the abdomen, which, however, was not full or hard, and the cheft was fore, but he raifed nothing that could be called purulent; the fits of the intermittent ftill recurred at certain periods, but with occafional irregularity, fometimes

times as a quotidian, but more frequently as a tertian.

As his complaints began with a true ague, and as it was still the predominant difeafe, it was obvious that the mode of treatment should be chiefly directed to the removal of this; accordingly having emptied the ftomach and bowels, in doing which, however, I did not think it right to lofe much time, I began to give him the Red Bark after the close of the fecond fit he had had fince I faw him; his fits ending with profuse fweats, lest him extremely languid, and his pulfe were fmall and very quick, even at the greatest distance from the fit, but notwithstanding this, I thought it right to perfevere, and he took ten dofes of two fcruples each, (being in all rather lefs than an ounce) before the time of the fit's expected return; this at once put a stop to the fit, his cough and feverishness immediately left him, his appetite

65

tite returned, his fpirits became good, and his recovery was fo rapid, that he was able to return into the country in a fortnight perfectly well: he continued, however, the use of the cortex in the fame doses two or three times a day, for feveral weeks.

Cases of patients who were droppical.

taining water.—In january 1782 he applied to me, and was then in the state just described.

AN ounce of this Bark, which I gave him without his taking any previous medicine, at once put an entire ftop to the intermittent, and it being the fole caufe of his other formidable fymptoms, they by degrees left him, and he was in a very little while reftored to perfect health and ftrength, the hardnefs of the body continuing the longeft, but even this was reduced to its natural fize in a few weeks; he continued to take a fmall quantity of the cortex twice a day about a fortnight.

MR. K——'s daughter was about four years of age, and from her birth had a good conflitution, but fhe had been much indulged, and with regard to her health, had been treated too tenderly;

derly; foon after chriftmas 1782 fhe was feized with a tertian ague, which continued at times, though not conftantly until the end of april, nothing in that time having been given her for its cure, except fome popular medicines, which the neighbours had recommended: at that time the child was very much altered, its complexion was yellow and bloated, and the body was very large and peculiarly prominent, attended to the touch with an evident undulation.

I CONSIDERED the Bark as the only medicine likely to fave the child, but feared it would have been impracticable to have given it her; however, I preferibed three drachins of it divided into fix papers, to be taken during the intermiffion following the next fit, the ftomach having been emptied at the accefs of it by a dofe of tartar emetic; contrary to my expectations, the child took the Bark perfectly willingly, and K 2 had

had not the leaft return of the ague.— The ufe of the Bark being continued in fmall dofes two or three times a day for a few weeks, the dropfical fymptoms entirely left her, and fhe was reftored to perfect health.

A ——'s child, of Hetherfett, was about four years old, and had had a quotidian ague from march to july 1783, which was the time I was applied to for it; the child was at this time compleatly dropfical, the legs were fwelled, the body large and hard, and the complexion yellow; I ordered three drachms of the Bark divided into fix papers, all of which the child took during the intermission, and the fit at once left it.-The medicine was continued in fmall dofes daily for about a fortnight, the dropfical fymptoms foon difappeared, and the child had in a fhort time a perfect recovery.

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Cases of neglected agues in which the fever became continual.

MR. W——, a gentleman about thirty-five years of age, of a thin fpare habit, and rather weak conflitution, and who had lived many years in a marfhy country near the fea coaft, was late in the autumn of 1782 attacked with an irregular intermittent, for which he took various medicines, but without fuccefs : in december he came to Norwich for my advice.

I FOUND him very thin and extremely weak; his countenance was fwarthy and his eyes yellowifh; he had a fmall quick pulle and a conftant fever, his appetite was bad, his nights reftlefs, and he had frequent and profufe fweats; though the fymptoms were truly characteriftic of the difeafe which produced them, yet the fever was now fo continually upon him, that it was impoffible

70

poffible to mark the time of the coming on of his fits, otherwife than by an increase of his general fymptoms, and which generally took place once in the twenty-four hours, the recurrence of which was, however, at no certain period. I gave him an emetic, and the day following he had a purging draught, and for two or three days he took an antimonial febrifuge; but the fymptoms did not appear to be at all mitigated by this treatment, I therefore thought it right to give him the Bark, which he began to take a few hours after I had obferved the before mentioned increase of fever; the fit, if it might be fo called, did not return, and the day following the feverifhnefs became confiderably lefs; he continued the ufe of the Bark daily for two or three weeks, before the end of which his fever was entirely gone, his appetite and ftrength returned, and he obtained a perfect recovery.

Mr. —— is the fame young gentleman whofe cafe was defcribed page 62:-In the beginning of august 1783, he came to Norwich very ill, having had an irregular intermittent for fome weeks; he was much emaciated, and with regard to his general fymptoms, was nearly in the flate of the laft recited cafe, but at this time he was free from a cough, and the increase of feverishnefs, which, as in the last cafe, was the only mark of a fit, returned more irregularly than in the last cafe, but mostly as a tertian; I treated him nearly as I did the foregoing patient and gave him the Bark, of which he took two fcruples every four hours: in lefs than twenty-four hours he was evidently better, the fit returned no more, and though at the time of writing this it is not three weeks fince he put himfelf under my care, he is quite well, and has very much recovered his itrength.

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72

I could relate many cafes in which the fever fits were very fevere, became worfe every time of their return, and the difeafe was evidently tending to a continued fever, but shall felect only the following, as being one of the worft; the fever fit being unufually long, the intermiffion imperfect, and the difeafe very rapidly hastening into a continued fever, with dangerous symptoms.

IN the Norwich affize week of the year 1783, I was defired to vifit the coachman of a country gentleman; I found him very ill at an inn, and in a very inconvenient hot room; the houfe being alfo very full of company, and there being a great deal of noife and confufion in it: it was on the tuefday afternoon when I firft faw him, he had very fevere fymptoms of fever upon him, and he told me he had been as ill ever fince the preceding night, and that he had not been quite well for a few days before.

I TOOK

I TOOK away fome blood from him, gave him an emetic immediately, and fent a purging draught to be taken the following morning. When I vifited him the next day, I found he had had a very reftless night, but having fweated towards the morning, he got fomefleep in the forenoon, and was now, it being about noon time, much better: in the afternoon he was fo much better as to be able to walk out, the weather being very fine and warm; but towards the evening the fever returned, but it was not preceded with any cold fit: he had a very bad night, and continued very ill all the next day, in the evening of which he was removed in a carriage to more quiet and convenient lodgings; a mistake happening refpecting the place he was gone to, prevented my feeing him from the thurfday noon until the friday forenoon; I then found he had had another bad night, but got into a perspiration towards the morning, fince which time L

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the fever had confiderably abated, infomuch that had I not expected the return of the fit in a few hours, I fhould have given him the cortex immediately; I defired him, however, to continue taking a mixture with fpiritus Minderi, and effence of antimony, which he had before been taking, and thought it right to wait the event of another fit, hoping that he would after that be fooner in a ftate to take the Bark.

ABOUT five in the afternoon the fit returned with more violence than ever, the approach of which was, as before, unattended with any chillinefs; he was exceedingly hot, the fkin dry, tongue much furred, and pulfe exceffively quick; he had had no fleep in the night, and was at times delirious; the fever continued, with little difference as to the degree of it, during the whole of the next day and the fucceeding night, until the funday morning; it then began to abate,

abate, in confequence of his having fweated the latter part of the night, which feemed to have been induced by an anodyne antimonial medicine, which he took about eleven o'clock the preceding evening.

THE fever feemed to gain ground fo fast, and the fymptoms to be fo much more fevere at each return of it, that I refolved to catch this opportunity of the abatement of the fever to give him the Bark; but I could by no means be confident of its fucceeding, as the intermission was very imperfect, and I knew could not be of long continuance; however, he began it in dofes of two fcruples, and continued it every hour in the fame dofe; his ftomach was in fuch a flate that he expected every time to have rejected it, and he could get down no more than fix drachms of it; this, however, fully anfwered the purpole, for though the beginning of the night was reftlefs, and L 2 from.

from his apprehending the fever was returning, he could not be prevailed upon to take any more of the medicine that night, yet he fell afleep before three o'clock; the remainder of the night was very comfortable, and the fever was inconfiderable the next day; the following night was a very good one, and there was not the leaft return of the fit on the tuefday afternoon, which would have been the time of its return; on the wednefday he got out, and on the faturday he was well enough to ride thirty miles on horfeback.

It being contrary to the ufual practice to administer the Bark after the first sit of an intermittent, or without any other medicine having been previously given, I shall mention the following cases in which it was so given.

M188 — having fome time before had a tertian intermittent, and having received

77

received a cure from the Red Bark, had a return of it in june 1783; being very certain that it was a true paroxyfm, and being confident that the Red Bark would prevent her having another fit, which fhould it come, would interfere with an engagement fhe wifhed very much to fulfil, fhe refolved to take it immediately upon the going off of the fit, and fhe got down the ufual quantity before the time that, fuppofing it proved a tertian, it would have come, and from that time to this fhe has not had the flighteft return of it.

In the beginning of august 1783, another lady, who about three months before had a very fevere intermittent, had a return of one fit; being acquainted with the before mentioned lady, and having been informed by her of her fuccefs in taking it after the first fit, took it in the fame manner, and it was attended with the fame fuccefs in preventing

78

venting the least return of the complaint.

ABOUT the end of the fame month, a gentleman who has had feveral returns of the intermittent in the course of the laft year, and which if he had more than two or three fits never failed to become irregular, had at this time a fmart fit of it; having been a little poorly the preceding day about the fame time, there was reafon to believe that it would prove a quotidian :--- The Red Bark having never failed with him to put an immediate stop to the fit, he was very defirous of taking it now immediately; but being a ftout man, and of a full habit, I wished him to undergo fome evacuation and wait for another fit, however he was fo importunate to take it at once, that I confented to it, and he took ten papers of two fcruples each between fix o'clock in the evening

ing and the noon of the following day, which prevented its return, and he has continued well ever fince.

A HEALTHY young woman, about twenty years of age, was taken ill on friday evening, august 29, 1783, with a feverish complaint, which continued all the next day, but went off towards the night with a confiderable diarrhœa; on the funday and monday fhe was fo well as to attend to her ufual bufinefs; between fix and feven in the evening of monday fhe was feized with a cold fit, and a very fevere pain in the region of the ftomach; fhe took an antimonial powder, which happened to be in the houfe, but without its exciting vomiting; between eight and nine I found her with a very fevere hot fit, and the head fo much affected by it, as to approach very nearly to a delirium; I took away ten ounces

of

80

of blood, ordered her to continue taking the antimonial powders, and to drink plentifully: towards the morning there came on a profuse sweat, the symptoms abated, and between six and seven I found her in a good sleep.

WHEN fhe awaked fhe was free from fever, and it appearing clearly to have been a true fit of an intermittent, many perfons in the neighbourhood being at that time attacked with it, and it promifing to be a quartan, as fhe was firft taken ill on the friday before, I ordered her to begin taking the Red Bark, but there coming on a diarrhœa that day, as had been the cafe on faturday, little of it was taken in the courfe of it, but as it abated the next day, fhe was able to get down the full quantity, from which fhe received a perfect cure, the fit returning no more.

IN

In the beginning of october 1783, I was defired to fee — W: who lived in a village near Norwich; he was a ftrong man, about twenty-feven years of age, and had had a quartan more than five weeks.—His health was fo much impaired by it, that for two or three weeks before I faw him, he was fcarce able to go abroad, and even on his beft days was frequently confined to his bed the greateft part of the day.

WHEN I faw him the hot fit was very feverely upon him. Had I feen him fooner, I fhould, probably, have given him an antimonial at the approach of the fit; but the great fuccefs with which the immediate and unprepared-for ufe of this Bark had been attended in the preceding cafes, induced me to direct him to begin to take it as foon as the fit, then prefent, was over; he therefore took twelve dofes of it, making together an ounce, before the time M when the next was expected: He became better the first day of his taking the medicine, had no return of the fit at the usual time, and continuing the use of the Bark, very foon recovered his health.

The following cafe, which in point of date fhould have preceded the last, is an evident instance of the inconvenience of waiting even for a second st.

A GENTLEMAN, in whofe family the Red Peruvian Bark had been feveral times fuccefsfully ufed, was feized with a fmart fever fit, but unattended with any bad fymptoms, in the night time between funday and monday the 24th and 25th of august 1783; it went off in the forenoon with a confiderable perfpiration, and I found him early in the afternoon free from fever; he was very defirous of taking the Bark immediately, from a conviction that it had

had been a true fit, in which he was confirmed, by recollecting he had been a little poorly the preceding friday; as he had undergone no evacuation, and I had but in a few inftances given, it fo early, I advifed him to wait for another fit, take the chance of its not coming at all, and in the intermediate time to take a purging draught, to which he confented, though unwillingly.

HE continued perfectly well the next day, but about twelve at night was feized again very feverely; this fit was much more violent than the former, lafted until the evening of the next day, and then left him fo exceffively weak, that he fainted away upon being taken out of bed; however, as the fever had declined, I defired him to begin to take the Bark, which he did about nine o'clock; one or two of the first doses were rejected, he vomited up a good deal of bile with them, and M 2 he

he flept very little in the night; the next day the pulfe was much quicker than in the former intermiffion, but as this was more, perhaps, the effect of fatigue and want of fleep than of fever, he perfevered to take the Bark, and got a fufficient quantity down to prevent the return of the fit, by which means his recovery was immediate; notwithftanding it is very certain, that had I given him the Bark in the firft intermiffion, I fhould have had much lefs anxiety for the event of the cafe, and he would, manifeftly, have had much lefs fuffering.

Cafe of a neglected ague, in which the fever became continued, and was attended with fymptoms of putridity.

IN the beginning of october 1783, I vifited Mrs. — an infirm and very old lady, being then in the feventy-ninth year of her age. Her ufual

ufual refidence was in the country, in the neighbourhood of which intermittents had been frequent during the preceding fummer, and the was feized with one about the beginning of autumn, which continued under different fhapes until the above date, at which time the was brought to Norwich.

FOR feveral weeks previous to this, it had been a quotidian, and a little before, and at the time I faw her, her fymptoms were fuch, as, at her advanced age, threatened the utmost and most immediate danger. Her tongue was remarkably dry, foul, and of a dark colour, and the whole fauces and throat covered with a thick brown fur, and which, from the imperfect manner in which she articulated, it was evident extended beyond the mouth and throat; her pulfe was fmall and very quick, the fkin hot and dry, and the urine was high coloured and turbid, all which clearly

clearly pointed out the putrid tendency of the difeafe. At the fame time fhe had a conftant naufea, and fuch an uneafinefs on the abdomen, as clearly fhewed the morbid flate of the contents of the ftomach and bowels.

THOUCH fhe was never free from fever, yet there came on with great regularity a true cold fit every afternoon, which was fucceeded by great heat and thirft, foon after which fhe fell into a ftate of ftupor and great drowfinefs, which lafted many hours, during which fhe took very little, and fcarce ever had the leaft perfpiration.

UNDER these circumftances, though the use of the cortex was obviously indicated, and appeared to be immediately requisite, both with a view to stopping the fits and correcting the putrescence, yet the necessity of first removing the foul matter from the stomach and bowels, was also evident, and

87

and this was effected by a few dofes of tartar emetic, which, though it acted very little on the ftomach, brought away fome large, foul, and highly bilious stools. As I faw her for the first time in the afternoon, just before the approach of the fit, and as the use and operation of the antimonial took up more than twenty-four hours, it is obvious that fhe must have had two fits before I could give her the Bark; this, however, gave me an opportunity of obferving the fymptoms accompanying them, and of being fatisfied that the account of their recurrence had not been misrepresented.

AFTER the fecond fit, from the time of my firft feeing her, I began to give her the Red Bark in the ufual quantity, and though fhe took but fix papers before the time when the fit generally returned, yet even this fmall quantity (half an ounce) proved fufficient to ftop it, and I found her three hours

hours after the time when it was expected more free from fever, and in every refpect much better than I had yet feen her.

I COULD not but observe with furprife how inftantly and greatly fhe was relieved from her general fymptoms, by miffing this fit; fhe immediately took more plentifully, which under the state of debility she was then in, was of the utmost importance, and which till then, fhe could not be prevailed upon to do in any degree equal to the want of it; and having a comfortable and refreshing night, her fpirits were good the next day, in the course of which, as she continued to take plentifully, the tongue became moift, and the foul flough in the mouth feparated: fhe perfevered in the free use of the Bark, had not the slightest return of the fever fit the next and following days, became very foon free from all the threatening appearances she first had,

had, and though at the time of writing this it is but a few days fince fhe began to take the Bark, fhe is recovering much fafter than could have been expected at her very great age.

AFTER having mentioned fo great a number of inftances in which this Bark has been efficacious, and having related the particulars of fo many cafes in which it fucceeded, though attended with circumftances very unfavourable to the application of Bark, it cannot be necessary to infift much further upon its efficacy, much lefs to draw a particular comparison between it and the pale; its fuperiority over which is plainly evident from its not having failed in a fingle inftance out of the very great number in which I have given it, and from its having fucceeded in fome cafes where the intermiffion was imperfect, and in others in which N only

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only a fmall quantity of it could be given.

INDEED its great value with me principally arifes from thefe laft circumftances; for thofe cafes in which the intermiffion is fo fhort and imperfect as to admit of the patient's taking but a fmall quantity of the medicine, are unfortunately fuch, in which the complaint is gaining ground most, and in which, confequently there is the most urgent necessity for the immediate ftopping the fit.

IF the Red Bark were confidered as poffeffed of no other power beyond that of removing a common ague with certainty, it would ftill be a medicine of confiderable value; but in cafes where the danger of a bad fever preffes hard upon the patient, and the complaint gains ground fo rapidly as to make us apprehend the worft confequences from a very little lofs of time, furely, if

if it enable us, by its wonderful power of putting an immediate and entire ftop to the fever, to refcue the patient at once from fo hazardous a fituation, it cannot be too highly effimated.

THE fatisfaction which has refulted to me from my fuccels in its ule in fuch cafes as thefe, in many of which I am perfuaded the patients must, otherwife, have had to ftruggle with a long and dangerous fever, and in fome of which they would probably have fallen a facrifice to it, is greater than I can defcribe; and it cannot, therefore, be wondered at, that, from a principle of common humanity, I fhould be very earneft in recommending the liberal use of it to my medical brethren; and that I fhould more efpecially urge the immediate trial of it to all those prac. titioners who live in marshy countries, where the flate of the atmosphere is fuch, as to be almost constantly productive of this difeafe, and where even N 2 the

92

the common traveller, who merely paffes through, cannot but obferve the pernicious effects of it upon the inhabitants.

HOWEVER useful the common Bark may have been, its beneficial effects have certainly been much limited, by the unwillingness of many perfons to take fo large a quantity of it as is neceffary to produce a cure; by others having had their confidence in its powers lessened by the inftances of its failure, which have fometimes occurred, even when most properly taken; and, probably, by a still greater number of perfons having adopted the common popular prejudices against Bark, and, more especially, having been induced to believe that it is always injurious to the conftitution, where it does not immediately fucceed in removing the disease.

I DOUBT

93

I DOUBT not but almost every furgeon, who has been much employed in cases of intermittents, and who confequently must have used much common Bark, must often have observed this, and frequently have been awkwardly fituated with patients who have taken a large quantity of it without its having answered the purpose in the first instance, from its being no easy matter to perfuade persons, under such a disappointment, to persevere taking a confiderable quantity of so nauseous a medicine.

NOTHING, on the other hand, can be a more agreeable circumftance in practice, than to be able to foretell the effects of a medicine with certainty, and nothing furely can be fo comfortable and encouraging to a patient, labouring under an acute difeafe, as to have his cure predicted with confidence : as it appears that this may be done in the ufe of the Red Bark, and as, alfo, that a much fmaller quantity of this than

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than of the pale, will effect a cure, I fhould hope that a very little experience of it will remove the obftacles, which, as before remarked, have limited the ufe of the pale Bark, and that when its wonderful powers and beneficial effects have been more generally known and felt, that all prejudices againft it will fubfide.

BUT to enlarge more on the efficacy of the Red Bark would, as I have already observed, be a needless repetition, and indeed there can be little occafion for arguments, where pofitive matters of fact have been adduced; where, too, the events in all of them have been uniformly alike, and where, moreover, the number of those facts has been fo great, as to put it beyond a poffibility of doubt that the fuccefs attending them has not been merely owing to a happy chance, as might, perhaps, have been urged, had the number of facts been fmall: I shall, therefore,

therefore, no longer trefpafs on the reader's time, than whilft I briefly mention the remarks on the general treatment of intermittents, and the particular application of this Bark, which obvioufly arife from the confideration of the foregoing cafes.

IT appears, in the first place, very evident, that the Bark may be adminiflered much more early, and with lefs previous preparation, than has been ufually thought neceffary :- That there is feldom occafion, when the Bark is given in common agues, to premife an emetic and a purgative, has already been observed by Dr. Saunders, and the experience of the cafes which have occurred to me, prove inconteffibly, that, even in the intermittent fever, where the fymptoms run high, and the fever is very confiderable, that there is not that neceffity for waiting until the patient has had feveral fits before

fore the Bark is given, which has been heretofore supposed.

In those intermittents, which, if neglected, are fo apt to degenerate into continued fevers, and which is peculiarly the cafe of the autumnal ones of this part of the kingdom, 1 have never had an inftance, where, by waiting for more fits, though the intermediate time has been employed in taking emetic, opening, and the common faline or antimonial medicines, that the fits have not been more fevere and of longer duration, and the intermission, of course, shorter and more imperfect ; nor have I known, though fo many cafes have occurred to me, a fingle inftance, where, by putting an early ftop to the fever, any possible inconvenience has followed.

IF the common theory be true, which fuppofes a fever fit to be an effort of nature to throw off fomething from the habit, which would be injurious to it.

it, that practice, which, in intermittents, at once puts a ftop to the fever, and confequently counteracts this fuppofed natural and neceffary effort, would . feem to be wrong; but the fact contradicts this, and proves the abfurdity of the opposite practice, which delays to check the progrefs of the fever, under an idea that the doing it would (to use a favourite expression of some practitioners) lock up an imaginary fomething, which would be unfriendly to the conflictution.

AN idea, fimilar to this, prevailed many years, with regard to the fmallpox, and for a long while refifted the modern attempts to treat that difease upon rational principles; it being imagined by many, that the leffening the quantity of pustules on the furface by mercury, cool air, &c. was not in reality diminishing the quantum of the difeafe, but only changing the feat of it, by throwing upon the internal and \mathbf{O}

more

more important parts, what nature, if uninterrupted, would have carried off more fafely by the furface; experience has, however, at length fully proved the abfurdity of this reafoning, and convinced practitioners, that mercurial purges, cool air, &c. as far as they act in leffening the eruption, fo far do they actually extinguish and annihilate the virus of the fmall-pox.

On the fame principle, I doubt not, but it is that the cortex acts in the cure of intermittents, and that it has a fpecific property of extinguishing the difease; a property, indeed, upon which we are unable to reason; but this can be but of little confequence, whils the fact is established; and admitting this, where is the evil of making use of it to put a stop to the difease as soon as we are fatisfied of its existence?

BUT it may be further urged, that when the Bark is given fo early in the difeafe,

difeafe, as appears to have been the cafe in feveral of the inftances which I have mentioned, and more efpecially when it is given after a fingle fit, that it muft be impoffible to afcertain whether the complaint be a true intermittent or not; and that, on the one hand, fhould it prove to be any other difeafe, the application of fo powerful a medicine may be injurious; or fhould it, on the other, be one of those fever fits which fometimes attack a perfon without being fucceeded by any more, that the taking the Bark is unneceffary.

I SHOULD imagine that neither of thefe objections can have much weight in preventing the early ufe of this medicine; for even in cafes where there has been only a fingle fit, there can be no great difficulty of judging concerning it, there being no kind of fever but the intermittent (except indeed the rigor which attends fuppuration, and this may ufually be diffinguifhed by O 2 circumftances)

circumstances) which attacks a person in full health, affects the patient violently, lasts a few hours, and then goes entirely off; I should therefore imagine, that if a fever fit have been marked with the characteristic hot and cold stages, if it have gone off by a fweat, and if it have left the patient after a limited time apparently well; if, likewife, the fituation in which the perfon lives, and the feafon of the year be conducive to this discase, and the patient have before been subject to it; and if, moreover, upon more particular enquiry it should be found that he was a little indifposed a day or two before; (for a fever fit of any magnitude is ufually preceded by fuch an indifposition, though it is mostly fo flight as not to have excited the patient's attention, and fcarce to have dwelt upon his recollection until a real fit occurs ;) if, I fay, all thefe circumstances, which are the usual ones attending a fit of an intermittent, should concur, there can be little

little doubt about the nature of the difeafe, and no danger in the immediate application of the Bark; and even fhould it prove poffible, which, indeed, cannot be known, that the patient, without taking it, would not have had a return of it, no harm can follow its ufe, unlefs we admit that fuch a quantity of Bark as the patient has taken, would be injurious to a perfon in perfect health, which in that cafe muft be the fituation of the patient.

It appears in the next place, that the Bark may be given under circumftances of feverifhnefs, which have been always confidered as abfolutely forbidding its ufe; a calm pulfe, a moift tongue, a foft and cool fkin, and more efpecially a urine which throws down a fediment, have ever been confidered as fymptoms abfolutely neceffary for the fafe and fuccefsful application of this medicine; my experience, however, in many of the foregoing cafes, authorifes

authorifes me to fay, that when the difeafe is gaining ground, and the fymptoms are urgent, that though thefe favourable circumftances fhould not be prefent, yet the Bark may, notwithftanding, be' very fafely and efficacioufly given.

PRACTICE has not indeed yet decided, whether the Bark might not in some cases of peculiar urgency be given with advantage, even during the paroxysm, but I have never heard of fufficient reasons why its use should be invariably confined to the ftage of perfect intermission; at least the common notions of its exciting heat in the patient, and increasing fever where the least degree of it is before exifting, feem to be fully contradicted by the facts which have occurred to me; and as far as one may be permitted to judge, from the obvious qualities of this medicine, this does not appear to be at all likely, it being very flightly aromatic, and when applied

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plied to the tongue not very pungent : nor is, moreover, any reafoning founded upon its fuppofed aftringent, or tonic powers at all more conclusive; for though it may have been urged, that by this last mentioned property it has a tendency to increase the action of the heart and arteries, by which means the circulating fluids are more quickly moved, and greater heat and fever are produced; yet, until positive facts have been adduced to prove this, the reafoning upon it, plausible and ingenious as it may be, ought not be admitted.

ALL the qualities of Bark which come immediately under the cognizance of the fenfes the Red Bark poffeffes in a greater degree than the pale; it is larger and coarfer, it is of a deeper colour, it is much more bitter, it affects the tongue with more pungency, and, from chemical trials, it appears to contain a much larger portion of refin: one would imagine, therefore, that if any

any of these properties could excite heat, that the Red Bark would be more likely to do it than the pale; and that it would be most likely to do it, when given to patients who were at the time affected with a confiderable degree of heat and feverifhnefs; but my experience of it in fuch cafes abfolutely contradicts this, proving, that its tendency is to leffen fever, even in its immediate influence, and confequently instead of aggravating, that it moderates those fymptoms, the presence of which have been before mentioned as incompatible with its use.

THE experience of fome of the foregoing cafes likewife tends very ftrongly to prove, that in thofe intermittents, which from length of time or neglect have become fo far continued fevers as in a great meafure to have loft the true type of the difeafe, and in others, where meeting with fome unfavourable conflitutional circumftances, fuch as a difpofition

difpofition to pulmonary affections, or to hectic fymptoms, the difeafe is fo aggravated by them, and fuch an additional feverifhnefs induced, as prevents the ufual intermiffion, this Bark may neverthelefs be applied with advantage; and that in every flage of the difeafe, and under every appearance which it may affume, provided it has originated in the true intermittent, that it is ftill the proper fubject for this medicine.

IT can fcarce be neceffary to add, that in making the foregoing remarks, which I have confidered as fairly arifing from the events of the cafes which have occurred to me, and which doubtlefsly prove, that we may in fuch circumftances as have been mentioned, deviate with advantage from the ufual mode of treating intermittents, I mean not to encourage a carelefsnefs or temerity in the ufe of the Bark, or by any means to intimate, that the ufe of other P medicines

106

medicines is totally unneceffary; as it is obvious, that there must frequently arife fymptoms which indicate the propriety of other means: in the hot stage of a fever fit there may be delirium, or fuch other evident marks of oppression upon the brain, as plainly require bleeding; unufual costivenes, uneafiness, fullness and hardness upon the abdomen, must require the use of purgatives and the fickness and inclination to vomit, which fo often take place at the access of a fit, should certainly be promoted by emetics, whilft there is any fuspicion of the stomach being foul; and in all cafes where the habit is full, and there is time for it, it may perhaps be right that the patient should undergo some evacuation at the beginning of the difeafe.

I WOULD, therefore, wifh to be underftood no further, than that where fymptoms are very urgent, where the difeafe feems to gain ground rapidly, and

and there is confequently but little time, we may give this medicine more early than has been commonly thought right; under a degree of feverishnefs, which has hitherto been confidered as forbidding its ufe; and that even when fuch other adventitious circumstances attend the difease as have been heretofore imagined to be obstacles to its use, that still the principal reliance for a cure is to be had upon this most wonderful febrifuge; my account of which I cannot conclude, without repeating my most earnest with that it may foon be univerfally adopted in medical practice.

Norwich, Oct. 10, 1783.

THEEND.

E R R A T A.

Page 40, line 11, for in, read through. Page 42, line 2, for parts, read part. Page 49, line 16, for fits, read fit. Page 74, line 7, for Minderi, read Mindereri.

Lately published by the Author of the preceding Essay, THE SECOND EDITION OF An Effay on the Uterine Hæmorrhage, WHICH

Precedes the Delivery of the full grown Fœtus; ILLUSTRATED WLTH CASES.