A practical treatise on the efficacy of stizolobium, or cowhage, (the Dolichos pruriens of Linnaeus) internally administered, in diseases occasioned by worms. To which are added, observations on other anthelmintics of the West-Indies ... / [William Chamberlaine].

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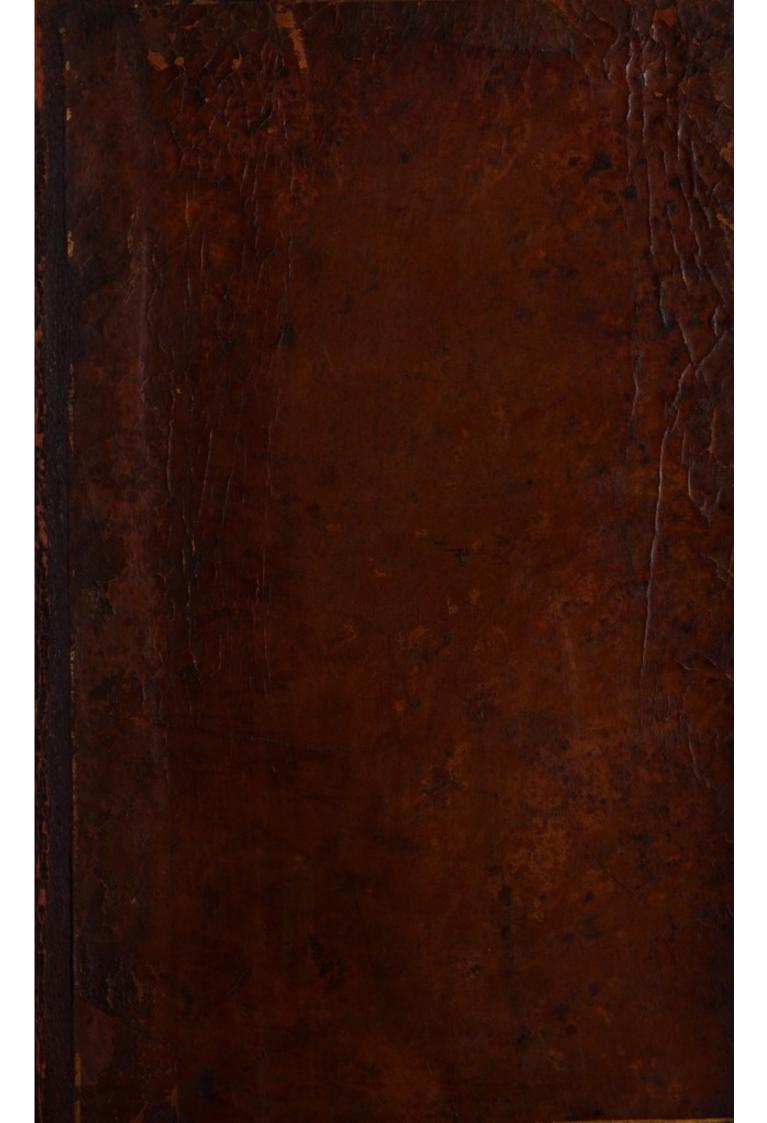
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MEDICAL SOCIETY OF LONDON



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B. WILLIAM CHAMBERLAINE, Suy



PRACTICAL TREATISE

EFFICACY

OF

STIZOLOBIUM,

OR

COWHAGE,

(THE DOLICHOS PRURIENS OF LINNÆUS)

INTERNALLY ADMINISTERED,

IN DISEASES OCCASIONED BY

WORMS.

TO WHICH ARE ADDED,

OBSERVATIONS

ON OTHER ANTHELMINTICS OF THE WEST-INDIES.

By WILLIAM CHAMBERLAINE, Surgeon, FELLOW OF THE MEDICAL SOCIETY OF LONDON.

THE FIFTH EDITION.

LONDON: PRINTED FOR THE AUTHOR,
NO. 29, AYLESBURY-STREET,
CLERKENWELL.

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PREFACE.

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It is now about Eight Years since the first Edition of the following Treatise was published. The favourable reception which it met with, and the Success with which the Exhibition of the COWHAGE has been attended, since that period, have induced the Author to reprint the Work; happy in having succeeded in his Endeavours to bring into some degree of repute so valuable a Medicine.

The universality of complaints arising from Worms, so destructive to the human body, must make every attempt to render those Maladies less frequent and fatal, a matter of importance to the public. The following sheets were therefore written,

written, not only for the perusal of medical practitioners, but the information and benefit of the community at large.

The inefficacy of European medicines, even these esteemed the most powerful of vermisuges, sirst induced the Author to offer this Treatise to the public; for, although some detached pieces relative to the exhibition of Cowhage, have at different times appeared in print, no book has been written professedly and practically on that subject. It is therefore presumed, the present publication may not be deemed unnecessary, being intended for the introduction of this useful anthelmintic into more general use, and practically to identify two circumstances of the utmost importance, namely, its SAFETY, and EFFICACY.

It is not, however, the Author's defign, in the following pages, to enter into a minute investigation of the nature and causes of Worms in the human body, or to take up much of the readers time in describing their symptoms; those have already been sufficiently enumerated and pointed out by preceding writers.

His principal view is to recommend a Medicine, bitherto little known in Europe, but which, from its safety, and powerful effects when internally administered, and brought to the test of experience, will be found justly deserving a principal place in the Materia Medica.

Its utility in EVERY species of Worm Cases and particularly in the removal of all those troublesome, and oftentimes grievous symptoms caused by ASCARIDES is evinced, and its Character, since the first publication of the Treatise, fully established, by the Sanction afforded to it by many very respectable Medical Characters in and about the Metropolis, who have prescribed it with the happiest Effect.

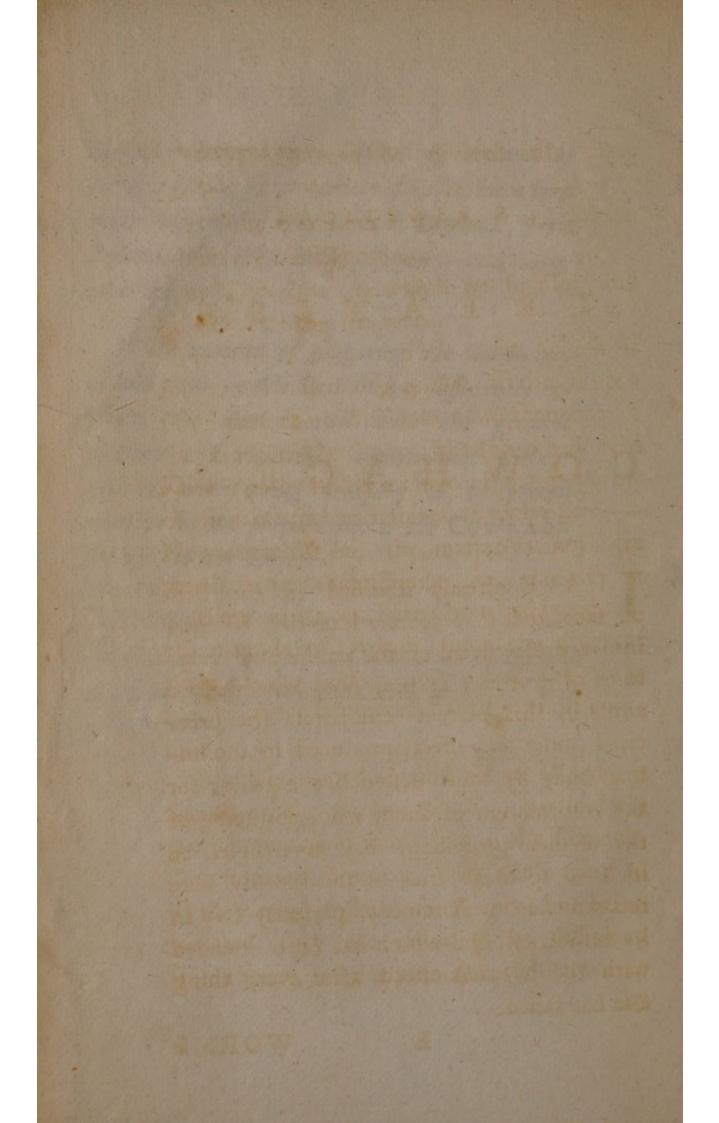
In that Species of OPHTHALMIA which is caused by Worms, it has proved eminently successful, by effectually removing the Cause of the Complaint.

The Author takes this opportunity of returning his thanks to those Gentlemen, who have favoured him with Communications on the Subject: Subject: Several very interesting accounts of its success in a great variety of Cases, have been received from different parts of England, from Ireland, the West-Indies, Algiers, and many other Places.

If the manner of preparing the Medicine, as laid down in this Book be not sufficiently explicit, the Author will with the greatest pleasure and readiness, communicate without reserve, every thing necessary to be known relative to the preparation of the COWHAGE for use, to any Enquirer.

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However this be, the matter is not here

of the fame fpecies fastened to each other -

HAVE already fignified in the Preface, that it is not my intention to enter into a prolix detail of the causes and symptoms of worms: It may not, however, be amiss in this place to enumerate the principal causes and effects produced in the human body by those destructive reptiles, for the information of such, who, not being of the medical profession, may nevertheless be inclined to make trial of the remedy here recommended: A remedy, perfectly safe in its exhibition, and which has been attended with the happiest effects after every thing else has failed.

WORMS may be divided into three species.

- 1. The Teres, or long and round Worm which are most common.
- 2. The Ascarides which are smaller, and chiefly seated in the rectum.
- 3. The Tania, or Tape-worm, which is sometimes called also Solium, from a supposition that there is seldom more than one of the kind in the body; though others will have it to be rather a chain of many worms of the same species fastened to each other.——However this be, the matter is not here worth farther discussion.

Many instances have been adduced, of other kinds of worms found in different parts of the human body; but the three species above enumerated are the most common.

The Teres, or long and round Worm, is found in the small intestines, particularly the jejunum, and sometimes in the stomach. The stomach, however, does not appear to be their natural place of residence; but being irritated, they are liable to be dislodged from thence, and not unfrequently thrown up

WORMS

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by vomit. When these worms (as sometimes it happens) make their way into the cavity of the abdomen, the case is mortal.

CAUSES.

The Causes of worms are various. A relaxed and weak stomach affords them a nidus, where they propagate, and are nourished.

Our food is full of worms, and their ova. It is supposed by many, that all liquors, even the blood itself, abound with their principia.

Among the chief causes—eating great quantities of crude vegetables, and green unripe fruit, may be considered.

Hence in the West Indies, it happens, that among the negroes, (whose diet confists chiefly of vegetables,) * complaints arising from worms, are much more fre-

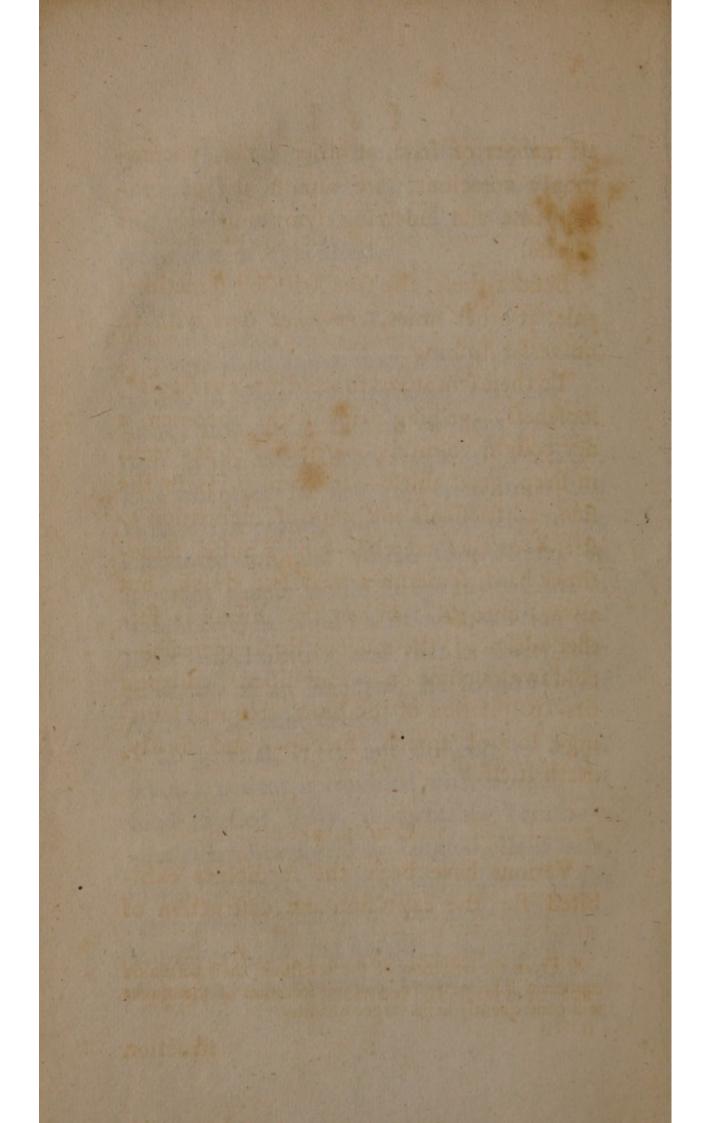
^{*} Plantanes—yams, cocco's, cassada,—Angola, or pigeon peas, and the maize, or Indian corn, constitute the principal part of the diet of negro slaves. The latter, of which they are remarkably fond, when just beginning to ripen, causes worms, more than any thing I know of.—Very little animal food comes to the share of a negro slave—and of this—only such as is of the most indigestible kind, as salt herrings, cured beef, pork, Newsoundland sish, and the like.

quent than amongst the white people; infomuch that it is very rare to see a negrochild without a swoln belly, and other symptoms of this disease.

SYMPTOMS.

There is no appearance, which this complaint, in some constitutions, will not assume; insomuch, that an eminent practitioner in the West Indies frequently declared, that whenever he saw any uncommon and violent symptoms, not immediately to be accounted for, and which superstitious or ignorant people would be apt to attribute to witchcraft, he would without hesitation exhibit anthelmintics, and that in ninety-nine cases out of an hundred, he found himself right in his conjectures.

In general, it is not difficult to know when a patient is troubled with worms. A hard fwelled belly, difagreeable breath—a particular heaviness, or languid, livid look, about the eyes, a swelling and paleness of the lips—and especially of the upper lip—an enlargement of the nostrils; itching of the nose, and an appetite, sometimes loathing



[5]

all manner of food, at other times, uncommonly voracious, are almost always concomitant and unerring symptoms of this disease.

Besides these, the face will be sometimes pale, at other times, crimsoned over with an universal slushing.

To these symptoms succeed mucous stools*, looseness—griping pains in the abdomen, a dry cough, vomiting—grinding of the teeth in sleep, great thirst—frequent pains in the side, a listlessness and want of inclination to stir,—or take exercise—and a pulse, sometimes hard, sometimes weak and quick, but always unequal. When the disease is farther advanced, the mucous stools increase—cold sweats come on—convulsions, epileptic sits—palpitation of the heart, frequent faintings, loss of speech, hiccup—and finally, death itself.

CURE.

Various have been the medicines exhibited for the expulsion and destruction of

^{*} From the irritation of the intestines, their peristaltic motion will be increased, and the secretion of the mucus will consequently be in larger quantity.

these intestine enemies. Bitter purgatives, oily medicines, preparations of tin---the juices of plants celebrated for their anthelmintic qualities, have all had their turn, and all in their turns have failed. Even mercury itself has frequently been given, in almost all its various forms, without any other effect than injuring the constitution.

And here, as it is not improbable that, the war being at an end, the number of medical practitioners, migrating to the West Indies, will be daily increased ; --- for the benefit of fuch, and of the owners of negroes in general, I will take the liberty of observing, that mercury, unless very cantiously given, and in very small quantities, is rank poison to the constitution of a negro. The many fatal effects I have seen; in the course of several years practice in the island of Jamaica, convince me of the truth of what I have here afferted.

Such practitioners, therefore, (and I have known fuch) who indifcriminately administer mercurial preparations to the negroes entrusted to their care, consult neither their own reputation, nor the interest of their employers, whose number of slaves is too

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often lessened, and many useful, healthy negroes destroyed, by the too frequent, and rash exhibition, of that excellent, but dangerous mineral.—Nor are its pernicious effects confined to the sons and daughters of Africa.—White people often feel the ill consequences of an indiscreet use of it.—Mercury is to be used with much less freedom in warm, than in cold climates—and the same quantity, which shall not produce any sensible effect in Europe, will in the same constitution, within the torrid zone, operate in a powerful manner.

The effects which mercury has upon the blood, is well known to those who practise physic. It attenuates, and dissolves the fluids.

The blood of such negroes, as work hard in hot climates—take but little rest, and live mostly upon a vegetable diet, will, even in an healthy state, be found much thinner, and less disposed to coagulate, than that of white people. Mercurial medicines, therefore, are hurtful, by breaking down and destroying the texture of the blood, already too much dissolved, by heat, and the nature of their provisions.

In

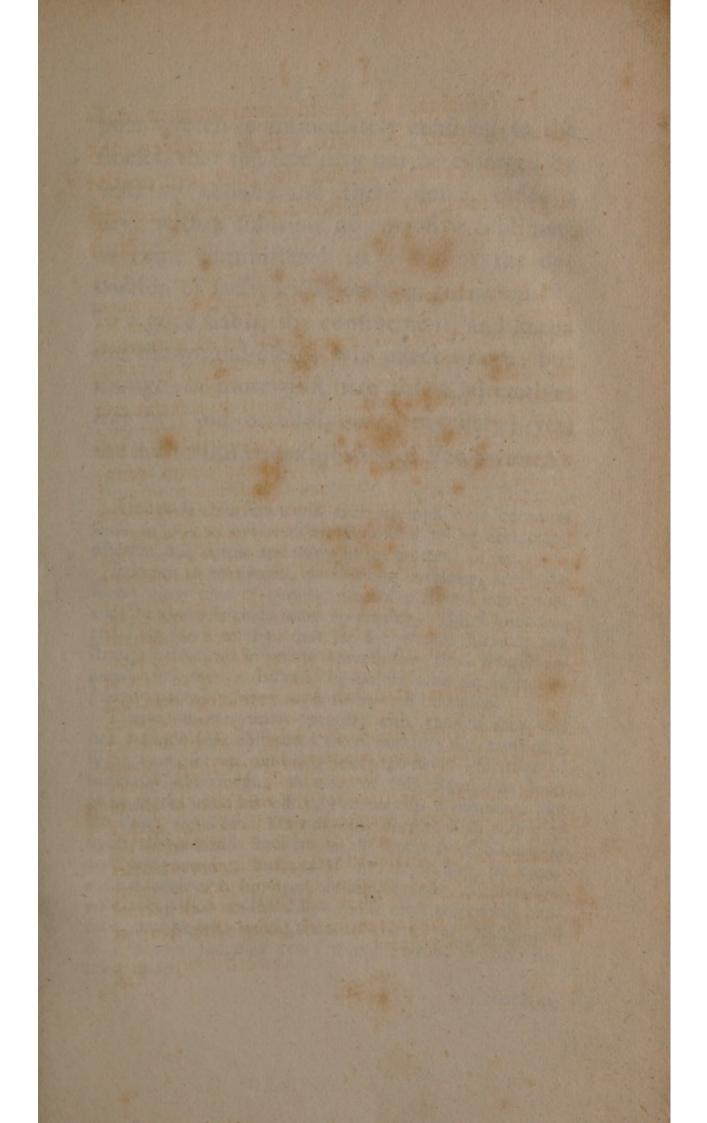
In Jamaica, it is too common a cuftom to fend a negro, that receives the flightest scratch, or has the least sore on the leg, or foot, to the hot-house*, where the poor

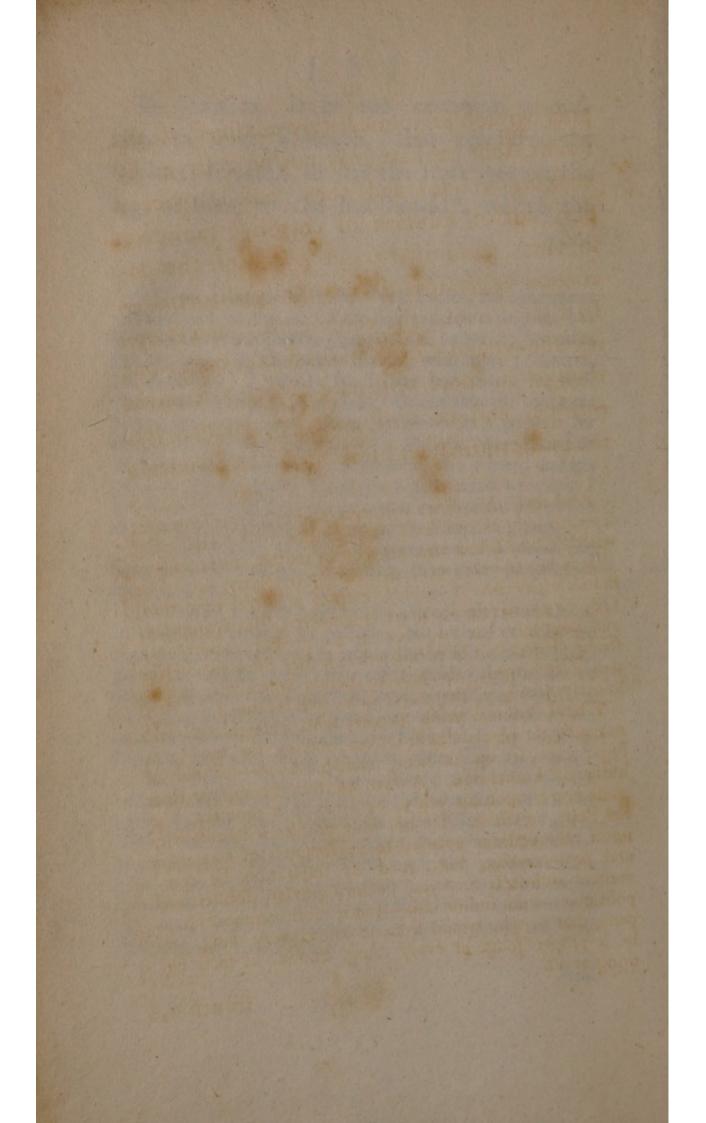
* Upon plantations in the West Indies, the apartment appropriated for the use of the sick and lame negroes belonging to each respective plantation, is called, in Jamaica, the hot-house—in the other islands, with more propriety, the sick-house. I cannot say I ever saw above ten well contrived sick-houses in my life. One of the best that ever I saw, and what may well be considered as a pattern for others, is at Water Valley, in St. Mary's, (the north-side of the island of Jamaica) the estate of the learned and ingenious Doctor James Nasmyth, a gentleman to whom I am much obliged for many curious particulars relative to the medical properties of many of the Jamaica plants.

This improper, and absurd appellation, Hot-house, has been productive of more mischief, than many proprietors

are aware of.

A house for the fick ought to be as cool, airy, and clean, in those hot climates, as possible; but instead of this, the managers, or overfeers, to whom the building of the Hothouse, as well as every other office belonging to a set of works, is too often entrusted, feem unwilling, that such a building should have its name for nothing; and therefore take care that it shall be literally a Hor house, by building it closer, and with fewer windows, than any other house on the estate. Nay, I have actually seen Hot-houses without any other aperture for the admission of air or light, than the door! Architects who build after fuch a fashion as this, must have taken their ideas from the black-hole at Calcutta.--What must the poor wretches fuffer, who are locked up at nights, fometimes as many crammed together as the place will hold-in fuch infernal dungeons, under the notion of " getting them well" of their different complaints!





poor wretch is immediately confined to the stocks, that the sore may not be enlarged by walking about; and there dosed, twice a day, with a solution of corrosive sublimate in rum, administered in a cup of the decoction of sarsaparilla, or lign. guaiacum.—— In a good habit, the confinement, and keeping the wound clean, will effect a cure; but though in more obstinate cases, alteratives may be, and certainly are, necessary; yet, the indiscriminate exhibition of Van Swieten's

And these absurdaties will ever triumph over common sense, so long as overseers are permitted to be architects, whether they know any thing of the matter, or not.

It is not to be denied, that among overfeers, are to be found many men of genius, men of a liberal education, and, in every respect, unexceptionable. But I must say, and I am forry to say, that far the greater number are strangely deficient in points wherein they think themselves amply informed. Indeed, in points wherein it is ab-

folutely necessary, they ought to be well informed.

I have known many people, who, though they had not a fingle idea abstracted from making the most of a fugar cane, set up, on being made overseers—for men of universal knowledge. A man of this stamp, as soon as he enters upon his office, becomes in a moment, like the Pope, infallible. He not only decides with authority upon all questions relative to the business of plantership and sugar-making, but, as if by inspiration, he commences architect, surveyor, doctor, grazier, distiller, and politician—cum multis aliis—and it most commonly happens, that he who would seem to know every thing, and be a proper judge of every thing, knows, in fact, nothing at all.

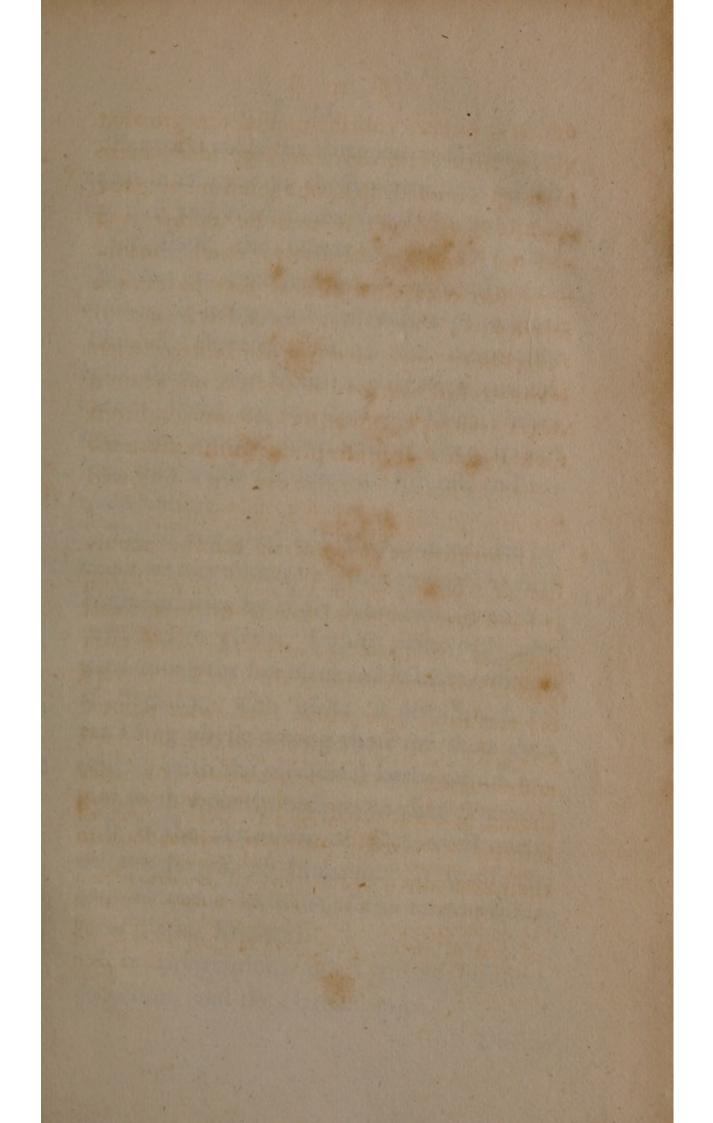
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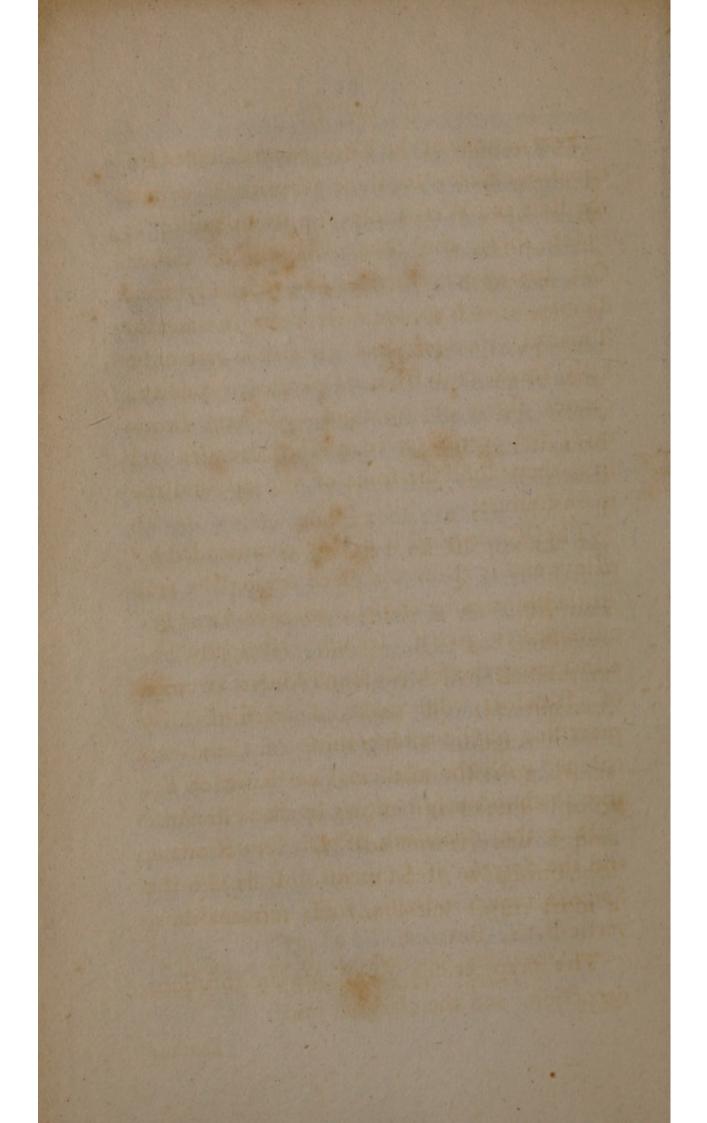
folution, as they call it, to every negro that has a little fore on his leg, does more harm than good. I have known many good constitutions much injured by its use, and dropsies brought on by those medicines that were intended at first to cure a fore leg.

In like manner, mercury administered with intent to kill worms has often brought on a worse disease; rheumatism---bone-ach, from taking cold---consumption, asthma---confirmed ascites---have but too often followed the injudicious use of that medicine.

If mercury be given at all for the expulfion of worms, the fafest way of administring it has always appeared to me to be in small doses of Dimsdale's powder*---But even this is not always effectual. And it is very extraordinary, that where Nature has pointed out and supplied us with the noblest and safest anthelmintics, the preparations of Art should be substituted, and preferred, though inferior in virtue, and more hazardous in their consequences.

^{*} Calomel & Pulv. e chel. Cancror. comp. aa gr. iij. Tartar Emetic, gr. 1/8 vel 1/10.





Few or none of the European medicines are equal in efficacy to those vermisuges which the East and West Indies supply us with.

Of these, the Oleum Ricini, or Castor Oil, has its excellencies.——All oily medicines, it is true, are destructive to worms. This oil, therefore, As AN OIL——not only kills them, but from its purgative quality, carries them off by stool.——When, however, the worms have attained strength and size, they elude the force of the oil, and remain unhurt.

The Worm-grass is highly commended by many, and is allowed a place among the first Anthelmintics by those who have been accustomed to give it. Its use principally obtains among the free black and Mulatto women of Jamaica, who make a livelihood by practising physic among those of their own colour, with the medicinal herbs which nature so abundantly bestows in that climate.

It is the Anthelmia of Doctor Browne, and the Spigelia of Linnæus. It is also the Spigelia ramis indivisis, foliis terminalibus, verticillatis, Buttneri.

The preparations of it are an infusion, decoction, and the clarified juice.

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Doctor Browne, who, in his Natural Hiftory of Jamaica, gives us the best methods of preparing it, speaks very highly in its praise. Those, to whom it is administred, are first affected, as if with a degree of intoxication. It then procures sleep almost as certainly, and in the same degree as opium; and the patients eyes, after the sleep is over, appear sparkling, and distended. However, the exhibition of it is not unattended with danger; a very little, too little will do no good, and excess in the dose, I have known productive of disagreeable effects.

The Asclepias*, which is the Apocynum erectum, folio oblongo, &c. of Sloane---from its emetic quality, called Bastard, or Wild Ipecacuanha, and by the negroes, Red-head, is a powerful vermisuge.

The usual way of administering it, is either in a decoction, or the expressed juice of the leaves. Of the former, half a pint is the usual dose to an adult, when intended as an emetic. In the latter form, from a

^{*} Asclepias erecta, soliis angustis acuminatis, verticilliter ternatis, sloribus umbellatis. Browne.

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tea-spoonful to three table-spoonfuls may be given as an emetic according to the age, conflitution, and strength of the patient. The expressed juice may also be made into a syrup with sugar.--I have known it to bring away worms (after operating as an emetic) from patients in whom there never appeared any symptoms of them. If there are any in the stomach, it certainly dislodges them. When the crude juice is to be administred, I would recommend an addition of an equal, or a double portion of lukewarm water with it, which makes it operate more gently, and likewise more effectually.

Browne says, the juice is a powerful astringent. I cannot say I ever knew an instance of its being astringent, and therefore imagine he must have taken his account, not from his own experience, but the report of others.

The bark of the Bastard Cabbage-Tree (hitherto, by Botanists, very imperfectly described, but which the ingenious Botanist and Ornithologist, Mr. Robins, of St. Mary's, Jamaica, has called Geoffrea, Inermis,) stands among the first, in the list of powerful vermisuges.

It is the bark of a tree, very frequently to be met with in the mountainous parts of Jamaica, which grows to a confiderable height. The bark is of an ash colour, sometimes spotted with reddish, or iron coloured fpots .--- The outer thin bark, or epidermis, being peeled off, the inner bark appears, when dry, of a rufty iron colour, and its interior surface of a cineritious hue. Altogether, when stripped off the tree, and kept for use, it is not unlike the eleutheria, or cafcarilla bark. The wood of the bastard cabbage-tree is exceedingly hard and durable, and much used for the purposes of building where strength and stability are required. The leaves are oblong, oval, smooth, and of a beautiful green colour, disposed in a pinnate form along the stem.

Of this tree, there are two forts, the male, and the female. The bark of the female only is applied to the purposes of medicine. This latter, in the months of April, May, June, and July, appears most beautifully adorned with very large spikes of papilionaceous blossoms of a purple colour, which are succeeded by a fruit, of the shape, size, and appearance of a green walnut; being a dru-

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pa, containing one oval kernel, inclosed in a hard, smooth, thin shell---*.

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* Doctor Browne has given a very imperfect account of this tree, in his Natural History of Jamaica.—He has not described it in its proper place, but refers it to his appendix, which treats only " of those vegetables whose characters are not sufficiently known."—Why he should call it a Spigelia, I cannot conceive, unless it was because he was fond of altering Linnæus's names,—and as he had chosen to give Linnæus's Spigelia, the worm-grass, his new name of Anthelmia, (or, as one of his editions has it, " Anthelmenthia,") he thought proper to transfer the name of Spigelia to this tree, which has not the least resemblance of a Spigelia.

He feems totally ignorant to what class and order it belongs, as also of the characters of the flower, which he leaves undescribed. I have endeavoured to supply his deficiencies, by adding that part of the underwritten description which is printed in *Italics*—and which, though not strictly conformable to the rules of Botany, may nevertheless be found sufficient to convey an idea of the flower.

SPIGELIA foliis oblongis nitidis pinnatis, cortice glabro

cinereo.

Flores in aliis masculini, in aliis sceminini dicuntur.

Mas defideratur.

Fœм. Perianthium? Monophyllum, campanulatum, quin-que-crenatum, purpurascens.

Corolla? Papilionacea: Vexillum amplum, cordato-

evatum; Alæ oblongæ; Carina bipetala.

Stamina? DIADELPHIA: Filamenta decem, quorum novem infernè connata, supernè, libera funt. Decimum vero simplex, à cæteris sejunctum exstat. Antheræ minimæ, oblongæ.

Pistillum. GERMEN ovatum. STYLUS brevis atte-

nuatus, aduncus, subulatus. STIGMA acutum.

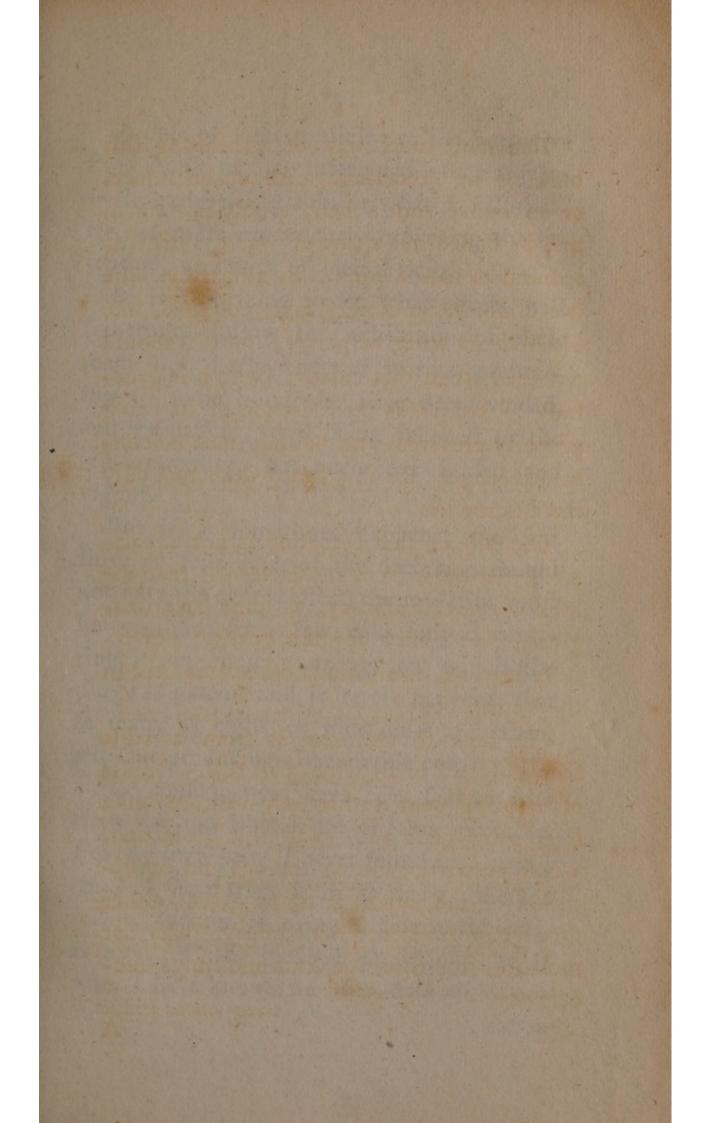
Pericarpium. Drupa carnofa, firma, ovata, linea longitudinali lateraliter notata, unilocularis, monospermis.

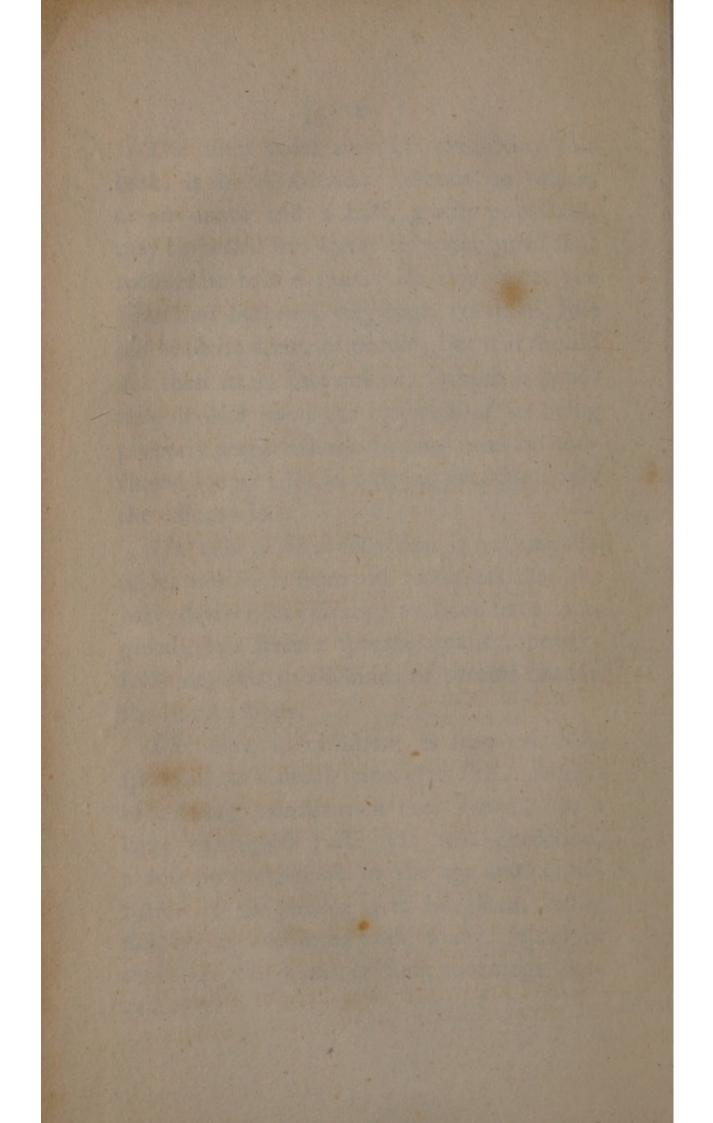
Semen. Nucleus bilobus, ovatus, membrana tenui obvolutus, & nauco ligneo glabro, linea longitudinali lateraliter notato, tectus.

The most usual way of exhibiting this bark, is in decoction. About an ounce, or an ounce and a half, grossly powdered, may be boiled in a quart of water, until it is reduced to half a pint. By this time, the decoction becomes very high coloured, like old Madeira wine, or porter; but if it should not then attain that colour, (which is generally looked on as the criterion of its being properly prepared) the boiling must be continued longer; for in a strong decoction only the efficacy lies.

The taste of this decoction is not unpalatable, nor is it from any bitterness that the bark derives its efficacy, as some have imagined; but from a specific quality, powerfully noxious to all kinds of worms bred in the human body.

The dose to children, is from a table spoonful, to a small wine-glass full. Adults of a strong constitution may venture on a large wine-glass full. Of this decoction, a dose proportionable to the age and constitution of the patient is to be given, either simply, or sweetened with honey, sugar, or molasses, for three or four mornings successively.





A dose of some medicine of the purgative kind should be then interposed—such as jalap—rhubarb—sal. glaub. or what is still better, as more immediately answering the intention, an ounce of oleum ricini.

It is surprizing to see what effects will sometimes follow the exhibition of these medicines. Large knots of worms, amounting to some hundreds, have been voided, and the patient, from being reduced to the last extremity, has recovered health and vigour.

But if, as sometimes happens, the first three or sour doses of the decoction should not have the desired effect, the medicine must be continued for a few days longer, omitting it on those mornings on which the purge is given; and it rarely happens, that so many as eight or nine doses are taken, without producing a favourable event.

Bad consequences have been said to arise from the too liberal use of this medicine. For my own part, I never found any; and I think I have tried it in as many different forms, and on as many different subjects, as most of the medical profession. It is true, I have known an over-dose of it oc-

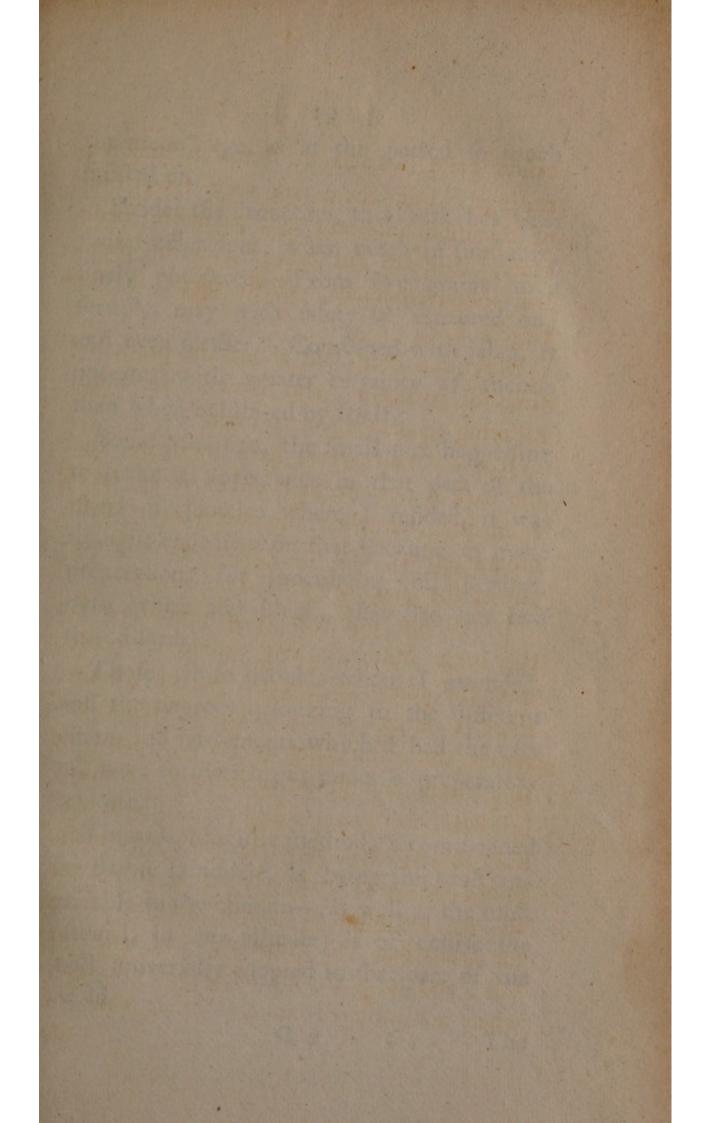
casion great sickness at stomach, and vomiting. But there are very few, even of the most innocent and palatable medicines, that are not attended with peculiar inconveniencies, when taken in too large a dose.

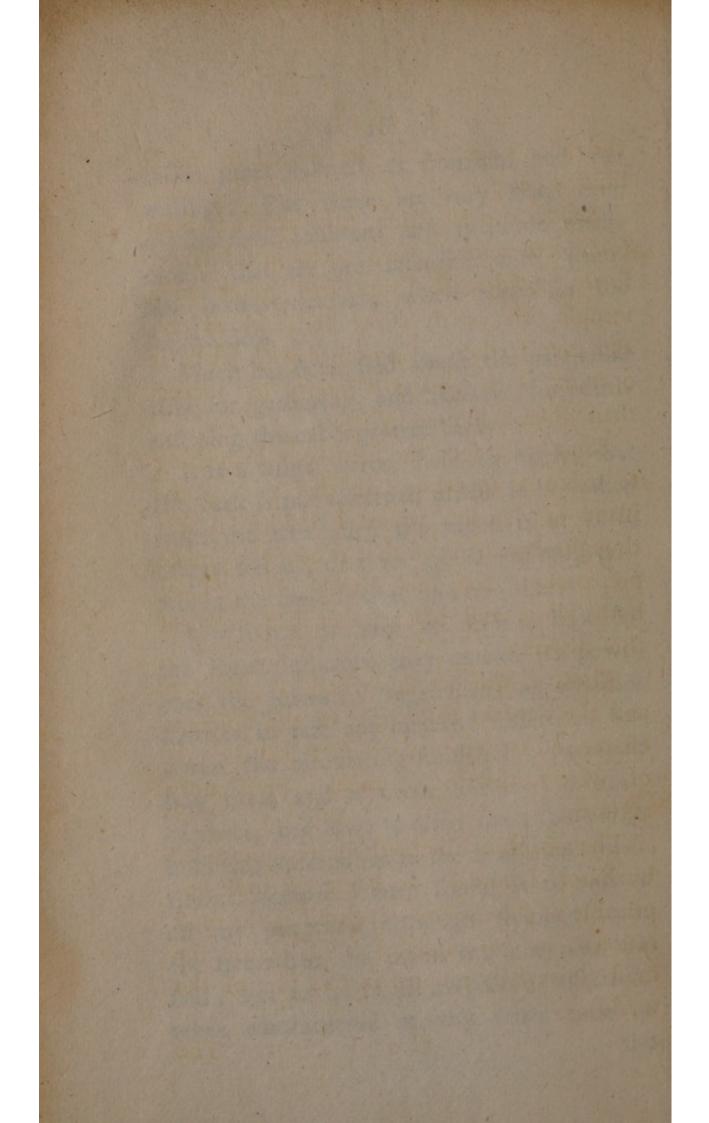
Much has been faid about the particular time for gathering, and likewise, for admi-

nistering the cabbage-tree bark.

It is a vulgar error, held by many, that the bark is not effectual, unless it be taken from the tree when the moon is at full; others tell us, that its effects are only certain at the same season, and no other.

I will not prefume to dispute how far the lunar influence may extend its power over the juices of vegetables; or whether there is in fact any material difference between the circulating fluids of a plant, at this time, and at other seasons. I must, however, beg leave to differ from those who hold this opinion, as to the bark here mentioned, because I have found it to answer all my purposes, although stripped from the tree when the moon was not near the full; and to be in all respects as effectual, when administered at any other time of the





the moon's age, as at the period fo much infifted on.

Besides the decoction, this bark has been found essications, when taken in substance, sinely powdered.—From five grains to a scruple, may with safety be ventured on; and even farther. Combined with jalap, it operates with greater certainty of success than when exhibited by itself.

Some years ago, the small-pox happening to make its appearance in that part of the island of Jamaica where I resided, it was thought expedient on that occasion to make preparations for inoculating all persons, both white and black, that had not had this disorder.

Those white people, whom I attended, and the negroes belonging to the different estates and settlements which I had the care of, were forthwith put under a preparatory regimen.

The antiphlogistic method, recommended by Baron Dimsdale, as being the most applicable to the climate—(as well as the most rational, in any climate) is of course the most universally adopted in that part of the world.

The

The mercurial preparation, given over night, I did not strictly adhere to. To the strongest negroes, the quantity of calomel given for a single dose, never exceeded three grains.---To some, I judged it altogether improper to give any.

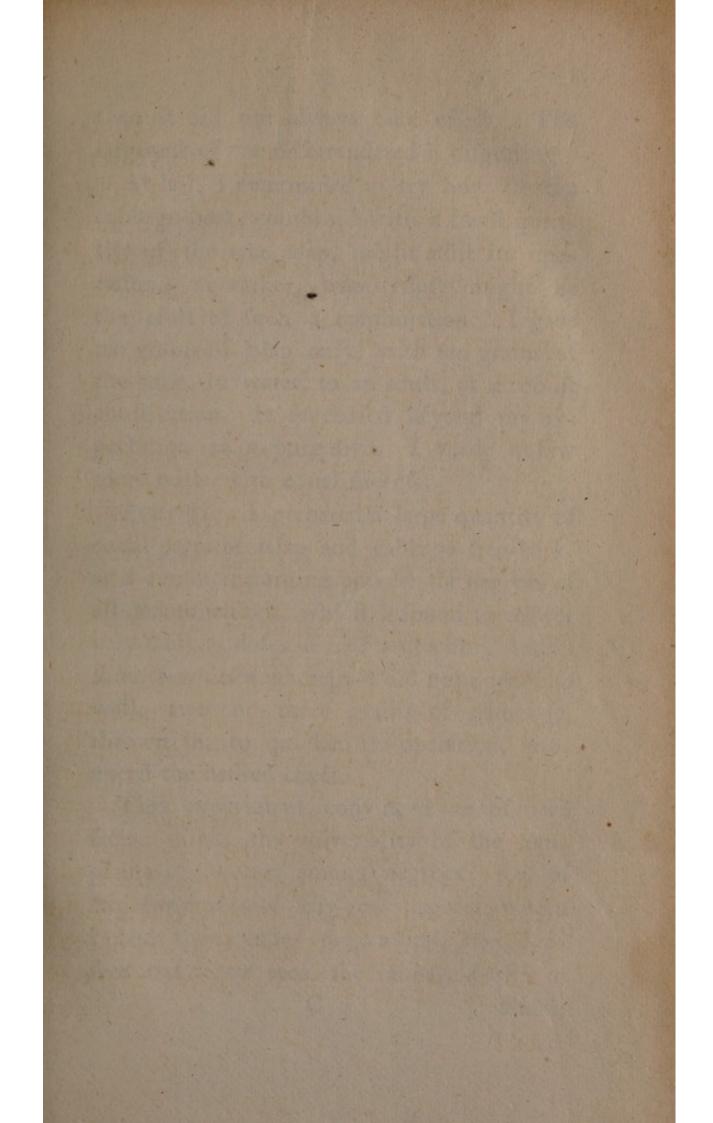
But as the very small annual sum allowed to surgeons, for the care of negroes in the country parts, will not admit of the exhibition of very expensive medicines, I was reduced to the necessity of setting my invention to work, to find out a cheap purgative, that should at the same time be safe and efficacious.

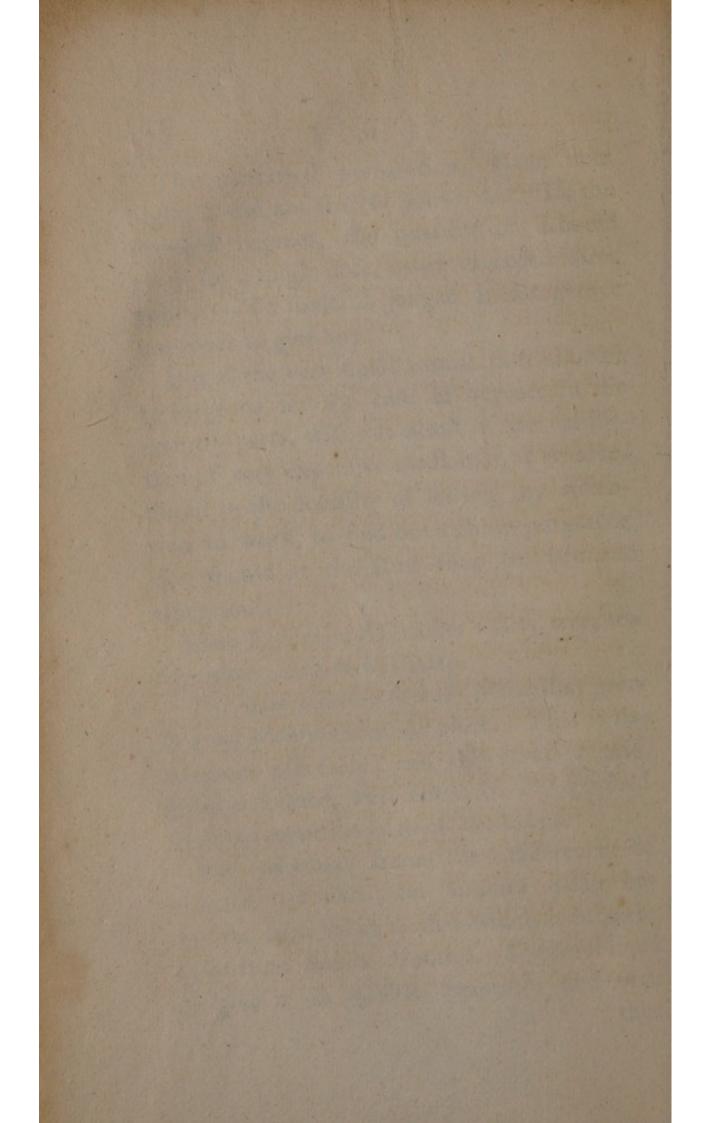
Even Epsom, and Glauber's salts, were too

expensive; and so was jalap.

The four o'clock-flower (Mirabilis) grew in great plenty about the place. This is the jalapium officinale; and the roots of this, fliced and dried, were not to be distinguished from the common jalap of the shops.

But whether from the difference of climate, or foil, the Jamaica jalap has not the same effect as that which is brought to us from South America. I was obliged to give it in double quantity; and even then





then it did not always take effect. The largeness of the dose rendered it disgusting.

At last, I determined to try how far the cabbage-bark, combined with a fmall quantity of the true jalap, might affift its operation; or rather, what effects might be the refult of such a combination. I gave ten grains of jalap only, with ten grains of the bark, in water, to an adult, of a robust constitution. It succeeded beyond my expectation as a purgative. I made a few more trials with equal fuccess.

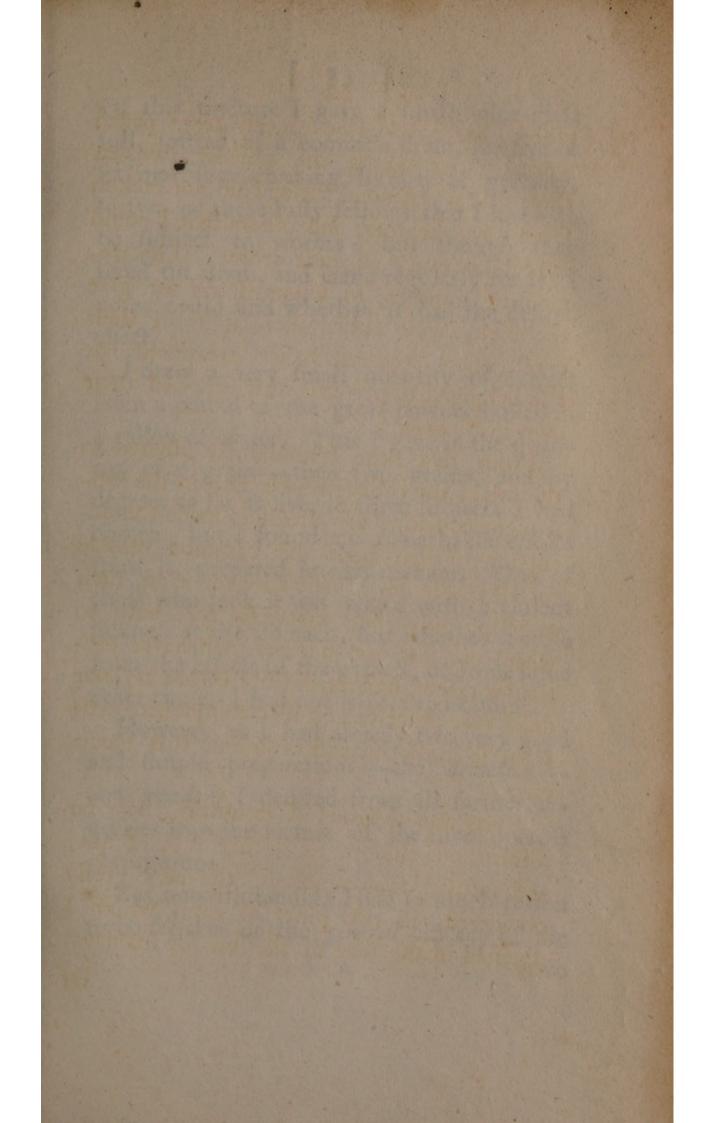
After this, I prepared a large quantity of equal parts of jalap and cabbage-tree-bark, as a common purging powder for negroes of all denominations, which I found to answer very well in doses of half a drachm; and in some few cases wherein it did not operate so well, two or three grains of gamboge, thrown in, to quicken its operation, produced the defired effect.

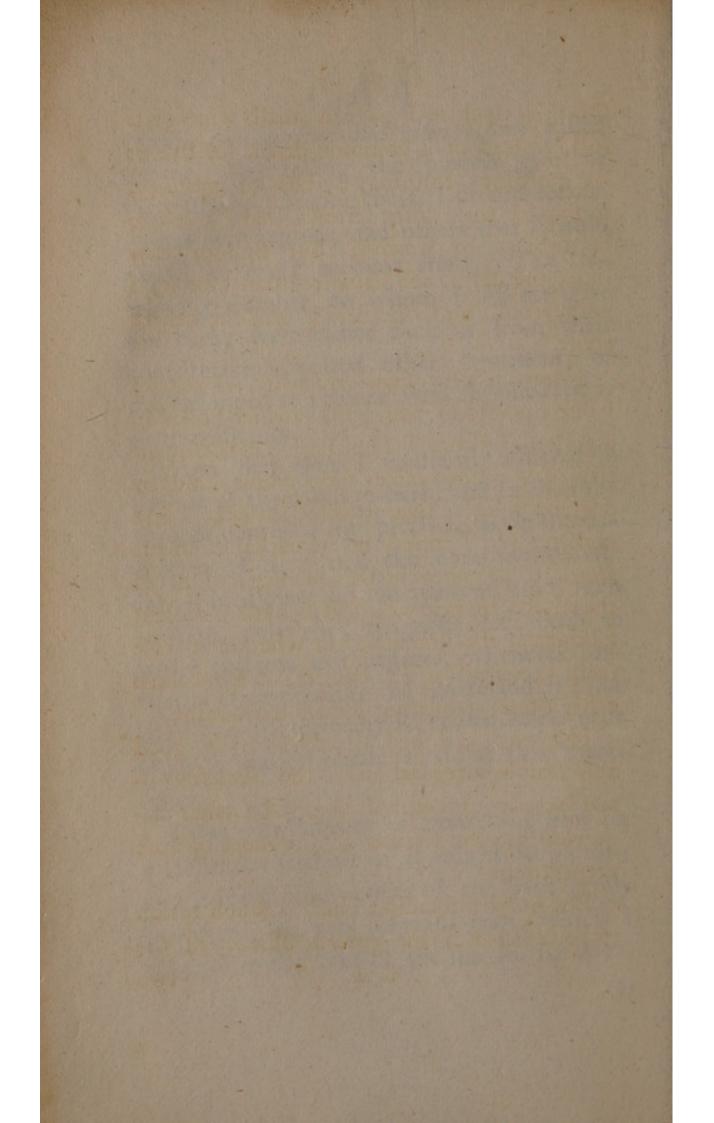
This experiment convinced me of two facts. First, the universality of the complaint of worms among negroes; for, of two hundred and fifty-four negroes, whom I had then under preparation, two bundred and fixteen took the cabbage-bark; of whom,

whom, one bundred and ninety-three passed worms, after taking the powder two or three times. Among these, I do not reckon several new negroes, and others that I could expect no exact account from. The remaining number, to whom I did not give the bark, were either such as from their constitution required other treatment, or else belonged to persons who supplied their own medicines.

From that time I constantly adhered to the use of the cabbage-bark, and in the subsequent course of my practice, made the decoction of that bark the common vehicle for all medicines of the aperient kind, such as jalap, pulv rhei, magnesia, &c. both to white patients and negroes, whenever particular circumstances did not forbid it; nor did I ever perceive any ill consequences arise from so indiscriminate a use of this medicine.

I was now defirous of examining how far a spirituous tincture of it might be of use; and insused four ounces of the bark grosly powdered, in two pints of rum, which I digested in the heat of the sun for six days.





Of this tincture I gave a small wine-glass full, instead of a common dram, for five or fix mornings running, by way of gratuity, to two or three lusty fellows that I knew to be subject to worms; but though they liked the dram, and came regularly for it, I never could find whether it had the desired effect.

I drew a very small quantity of extract from a pound of the gross powder boiled in a gallon of water. This I gave in the quantity of a grain---then two grains, and by degrees as far as five, to three subjects I had chosen; but I found no remarkable effects from it, prepared in this manner. One of those who took it was seized with a violent sickness at the stomach, but whether it arose from the effects of the extract, or from some other cause, I had not leisure to examine.

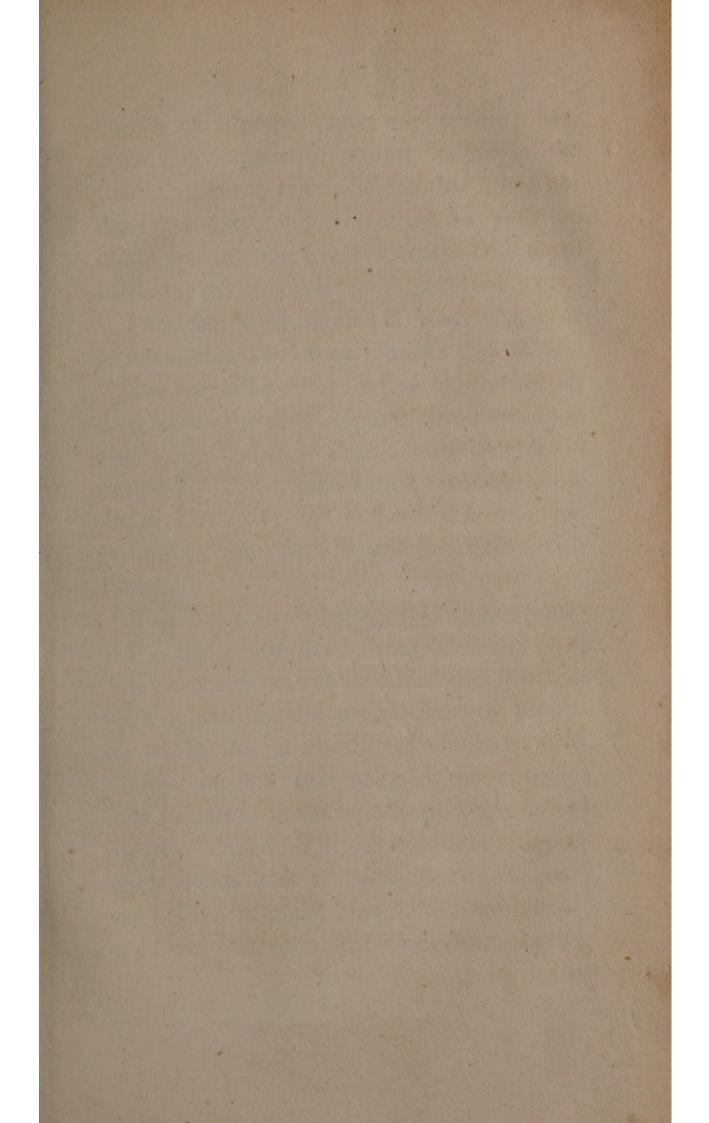
However, as I had already two very good and simple preparations——the decoction——and powder, I desisted from all farther enquiries into the virtues of the more operose preparations.

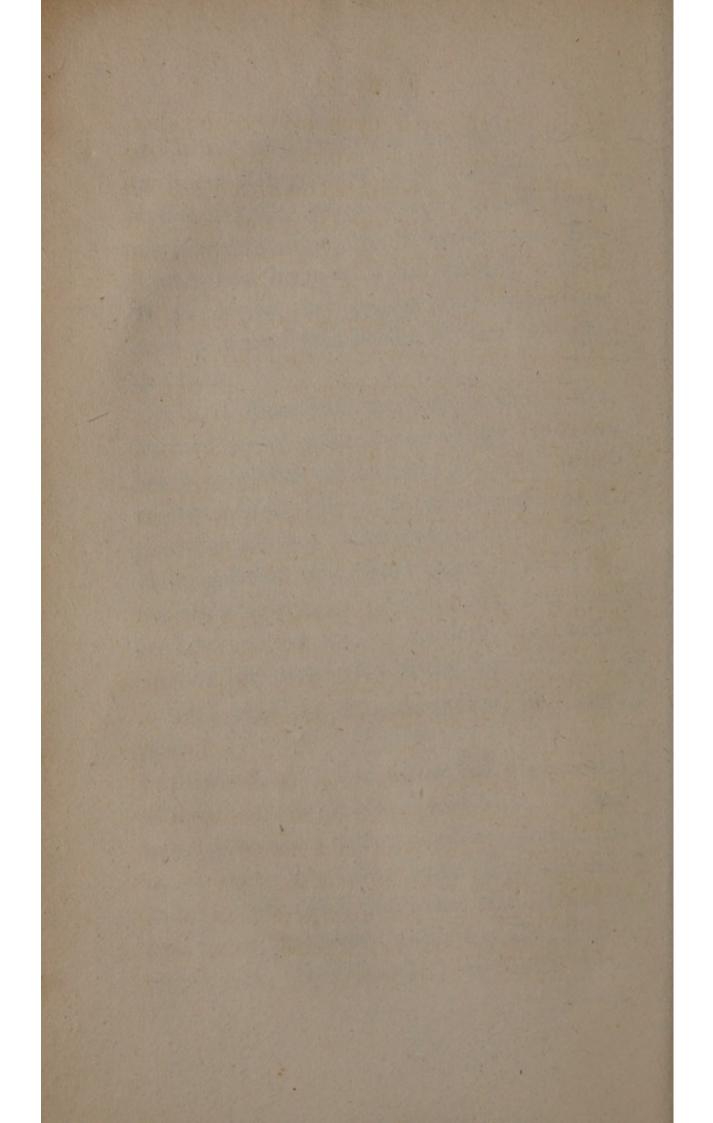
But notwithstanding I had so much reason to be satisfied of the general efficacy of the two former preparations of this bark, I found my hopes disappointed in two or three very obstinate cases, wherein after almost every other anthelmintic, both native and European, had been tried in vain, I expected to derive very considerable advantages from a timely exhibition of the cabbagetree bark.

The ill success of the bark in those cases, induced me to make some enquiry concerning a medicine which I had heard of, as being successfully given, in many parts, to all patients afflicted with complaints arising, or supposed to arise, from worms; and that, not only by regular practitioners, but even by ignorant negroes, at random, and without any just proportion in the dose.

This was the STIZOLOBIUM, or Cow-

Satisfied, as I said before, of the general esticacy of the cabbage-tree-bark, I had never given myself the trouble to make enquiry about any other more powerful vermifuge; nor did I think that there could be one more powerful, until the death of a negro girl, (See Case II.) evidently occafioned,





fioned, as appeared upon my opening her, from vast numbers of worms lodged in the small intestines, convinced me that I had not done my duty, and excited me to push my enquiries in search of a more efficacious medicine still farther.

I had heard so much of the cowbage, or cowitch, that I resolved to make trial of it.

But the different modes of exhibiting it, were as various as the persons who took upon them that office. One administred it in melasses. Castor oil was the favourite vehicle of a second; and a third insisted, that it was of no service unless mixed with honey.

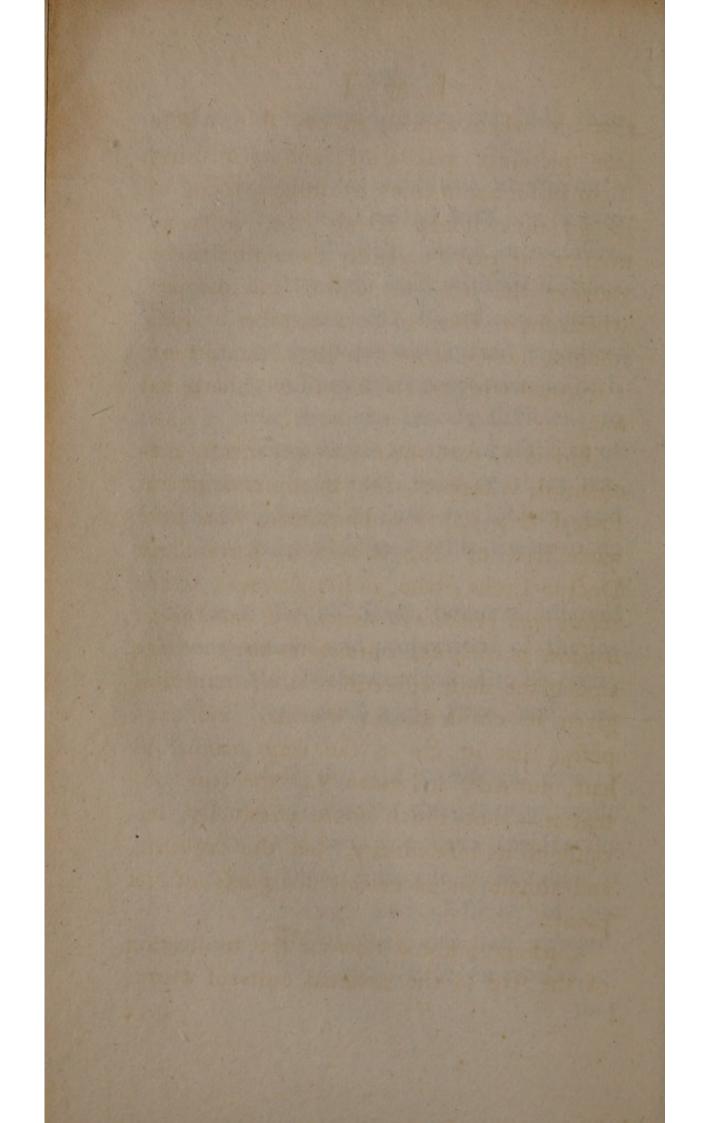
The greater number agreed in giving melasses the preference; but there was even among these, a considerable disagreement with regard to the proportions to be observed in the mixture. While some cautiously put but two pods of the cowhage into a quart of melasses, others boldly stirred up two dozen in a like quantity. Some again would have six pods to be sufficient; and others imagined that some secret virtue, or charm was to be expected, from having the the number neither greater, nor less, than exactly nine.

By some, the setæ contained on the outside of a single pod, mixed with one or two
table-spoonsful of syrup, honey, or melasses,
was given for a single dose, without distinction, to young and old. By others, a quantity of each ingredient was mixed together,
without bearing any exact proportion to each
other, farther than was merely sufficient to
bring the composition to the consistence of
an electuary; and one, two, or three teaspoonsful given as a dose to children, and
one, and sometimes two table-spoonsful to
adults.

As far as I could learn, however different the compositions and proportions of the ingredients, the effects were found to be pretty much the same in all ages, sexes, and constitutions.

I considered, that the wonderful efficacy so generally attributed to the cowhage, could not be supposed to arise from any specific medicinal quality residing in it, so much as from the sharpness and elasticity of the setæ, with which the pods are covered, which take the same effect on worms, as they

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they do when applied to our skin. The setæ piercing, vellicating, and tormenting them in such a manner, as obliges them to let go their hold; acting like so many needles, as may be plainly demonstrated by viewing the setæ through a microscope; which shews them to be a number of long spiculæ, needle-shaped, hollow, transparent, and armed with points, exquisitely sharp and fine.

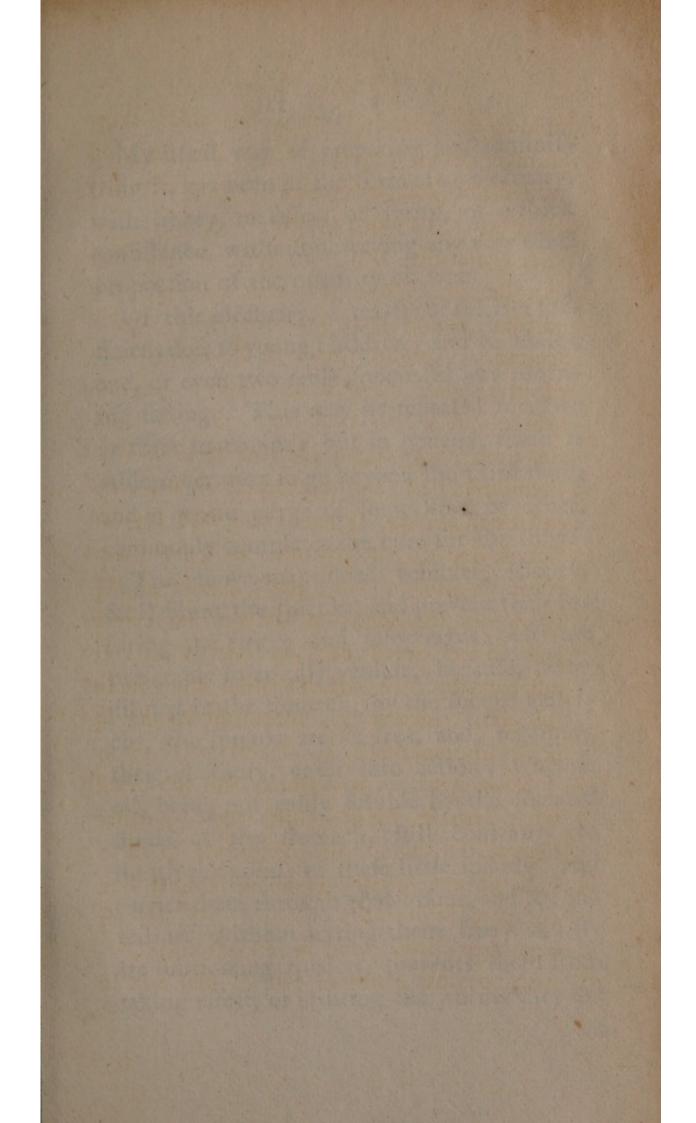
The idea, that their action is merely mechanical, is supported by the observations of several very judicious enquirers, who have made trial of the cowhage, particularly Doctor Leake; who, in his Lectures on the theory and practice of midwifery, and diseases incident to children, enumerates the cowhage among the most effectual of those remedies, given to children, for worms. He supposes, that it acts in the same manner as hair, cut fine, and given with the same intention—but much more effectually, because of its inflexibility, and the exquisite, and almost inconceivable sharpness of its points,

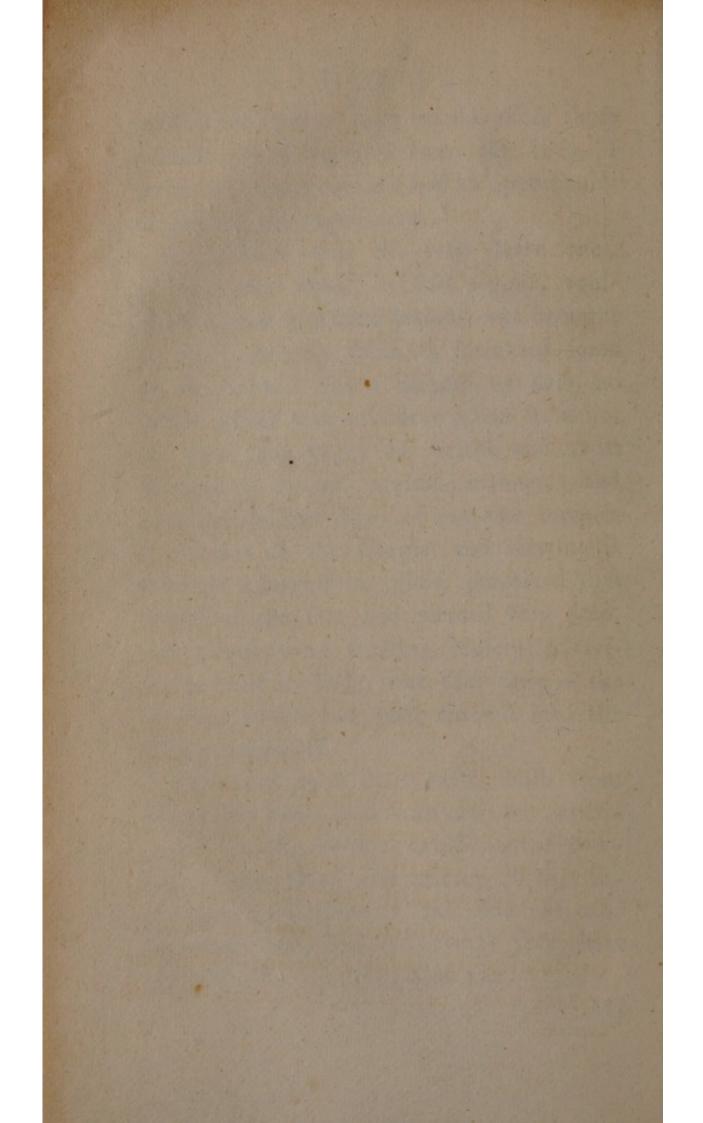
Ourious to know how far the application of the setæ to the external coats of worms

bred in the human body would affect those animals when expelled from the body, I waited not long before I had an opportunity of making the experiment.

A calabash full of very large ones, of the teres kind, in full vigour, voided by a poor emaciated patient, was brought to me. Among these, I sprinkled some of the fetæ. For a minute or two, no visible effect was produced; but in a little time they began to writhe and twist themselves in an unusual manner, and exhibited evident figns of extreme torture. I took one of the worms, and viewing it. through a magnifying glass, perceived that feveral of the fetæ had pierced very deep, and others were sticking loosely in various parts of its body, but that none of the spiculæ, which had once entered into the Ikin, dropped off.

Convinced in a short time, both from what I had heard, and from my own experiments, on the internal exhibition of cowitch, of the safety and efficacy of this incomparable medicine, I laid aside the cabbage-tree-bark, and for several years have used no other vermisuge than this.





My usual way of preparing and administring it, has been in the form of an electuary, with honey, melasses, or syrup, of a thick consistence, without observing any very exact proportion of the quantity of setæ.

Of this electuary, a tea-spoonful is a sufficient dose to young children; and to adults, one, or even two table-spoonssul in a morning fasting. This may be repeated for two or three mornings; but in general, there is seldom occasion to go beyond the third dose; and a gentle purge of some kind or other, commonly completes the cure for the time.

The above-mentioned vehicles, (honey, &c.) blunt the fpiculæ, and prevent their injuring the fauces and æfophagus; and are preferable to an oily vehicle, because, being diluted in the stomach, by the succus gastricus, the spiculæ are set free, and, regaining their elasticity, enter into action; whereas oil, being not easily soluble by the secreted shuids of the stomach, still continues to sheath the points of these little spiculæ, and carries them through that viscus, and the intestines, without setting them free; and by its lubricating quality, prevents them from taking effect, or injuring the worms they are

fent to destroy. Oil is, therefore, an improper vehicle; and this will appear still plainer, if we consider, that to defend our hands from the troublesome effects of the setæ, when handling cowitch, it is necessary to oil the singers.

No anatomist will ask, Whether these spiculæ may not be injurious to the coats of the stomach and intestines? But, as I have been asked this question by many people, who, ignorant of the structure of the intestines, and the nature of this mucus, were apprehensive of danger --- and therefore afraid to venture on the medicine; it may not be amiss to remark, for the fatisfaction of fuch as are in doubt concerning that point, that if a little honey or treacle is sufficient to defend the tender nervous papilli of the mouth and fauces, from the troublesome effects of the setæ, (which, when applied externally to any part of our skin, cause a most tormenting and intolerable itching, fometimes almost even to madness) certainly the mucus of the stomach and intestines will be very sufficient to defend those parts from the irritation of the fette.

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CAMPAGE AND CONTRACTOR OF THE PARTY OF THE P AND THE RESIDENCE OF THE PARTY CONTRACT CONTRACTOR OF THE PARTY OF THE PART Nevertheless, however inossensive in general the Cowhage may be, reason will dictate to us, that where the mucus of the stomach and intestines is abraded, or leffened, from dysentery, cholera-morbus, or any other cause whatsoever; or where there is a tendency towards inslammation in any part of the intestinal canal, the exhibition of this medicine cannot be unattended with danger.

I shall not go so far as to say, in praise of this my favourite medicine, that I never knew it to fail; but I will say, that I have experienced more certain good effects, and sewer ill consequences, than from any other medicine, given with the same intention; insomuch, that I have, since I first began to exhibit the Cowhage, had no occasion to look for any other vermisuge.

The wonderful and falutary effects which I saw from the use of this medicine, both in my own practice, and that of others, among whom it obtained the same universality, and likewise among those, who, though not in the medical line, freely administred it, both to their own children, and their negroes, without any dread of ill consequences, induced

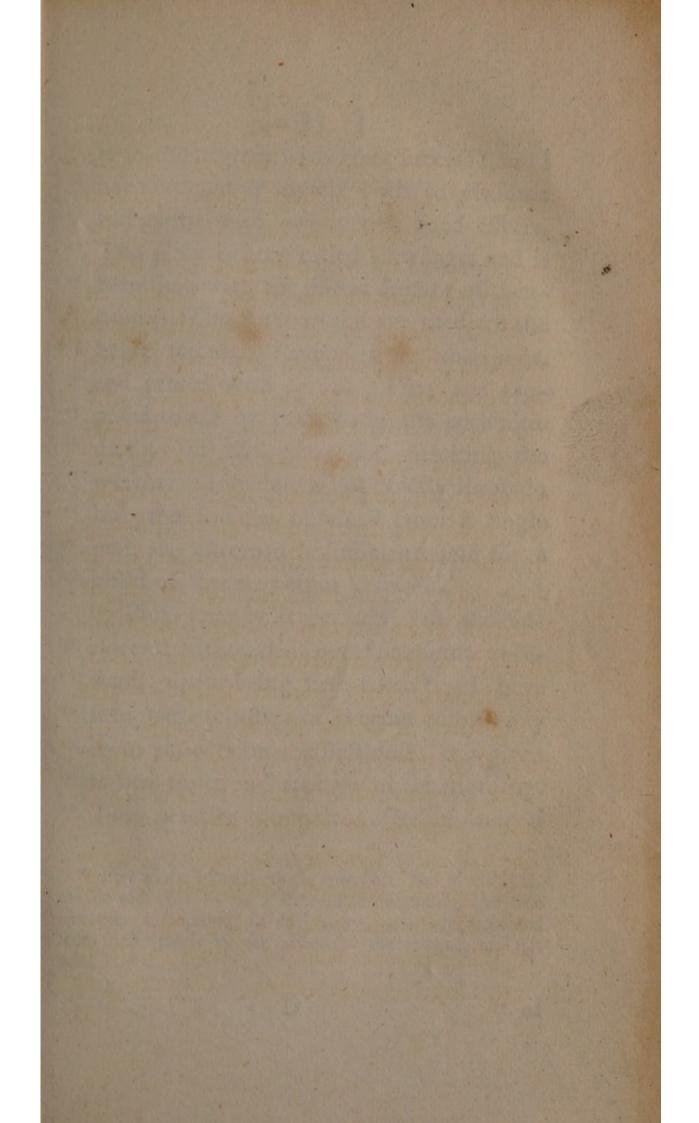
duced me, from the very first, to commit to paper my observations relative to the exhibition and effects of Cowhage; hoping that it might be no unacceptable fervice to the community, to introduce into general practice in England, a medicine, which in the West Indies, is of such well known and indisputable efficacy. I have therefore subjoined, by way of appendix, a few of the most remarkable cases, which have fallen under my cognizance, as a farther illustration of the efficacy of this medicine; and shall, for the present, beg leave to give the remainder of this account of the Cowhage, or Cow-itch, in the words of those gentlemen who have obliged the world with an accurate description of this plant, and its uses, taken from the second volume of the Medical Commentaries.

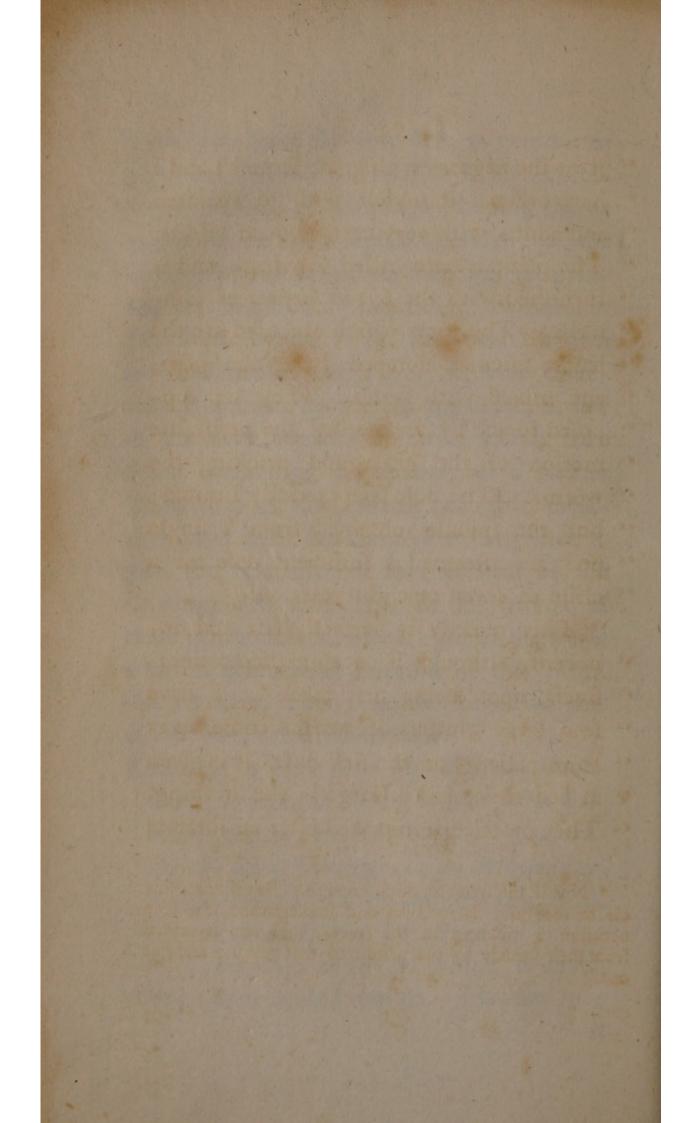
Extract of a letter from Mr. Thomas Cochrane, furgeon, at Nevis, to Mr. John Balfour, furgeon, in Edinburgh. Concerning the use of Cowbage, as an anthelmintic.

From the Medical Commentaries, Vol.

II. Part I. No. IV. Page 82.

"There is a medicine which is much used here against worms. Planters give





[33]

" it to the negroes with great fuccess; and I

" have ordered it myfelf both to children

" and adults with very certain good effects.

" The plant is here called Cowhage, and is

" furnished with the siliqua birsuta of Lin-

" næus. The parts which are used are the

" hairy spiculæ, scraped from the pods,

" and mixed with fyrup. They are fup-

" posed to act by promoting the peristaltic

" motion of the guts, and pricking the

" worms. The dose is not exactly limited;

" but the spiculæ obtained from a single

" pod, are esteemed a sufficient dose for a

" child of feven or eight years old.

"This remedy is perfectly fafe and in-

" nocent, although it occasions some unea-

" finess upon being first taken*. I have

" feen large clusters of worms come away

" from patients on the first dose. It is given

" at bed-time, and a purge in the morning.

"This practice is repeated after an interval

" of

^{*} Not if the fyrup be thick enough. But if the vehicle be too thin, or in a state of fermentation, the setæ occasion a tickling in the sauces, and are separated from their vehicle by the action of the tongue, and spit out.

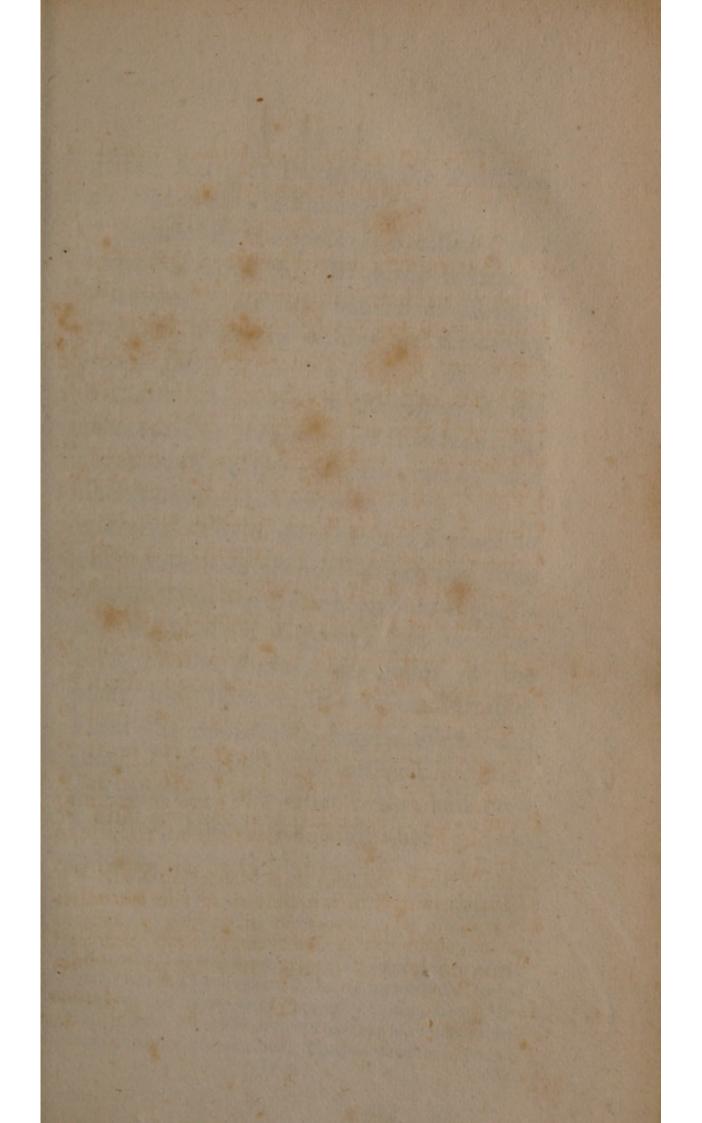
" of two days; and it is feldom necessary " to give more than a second dose."

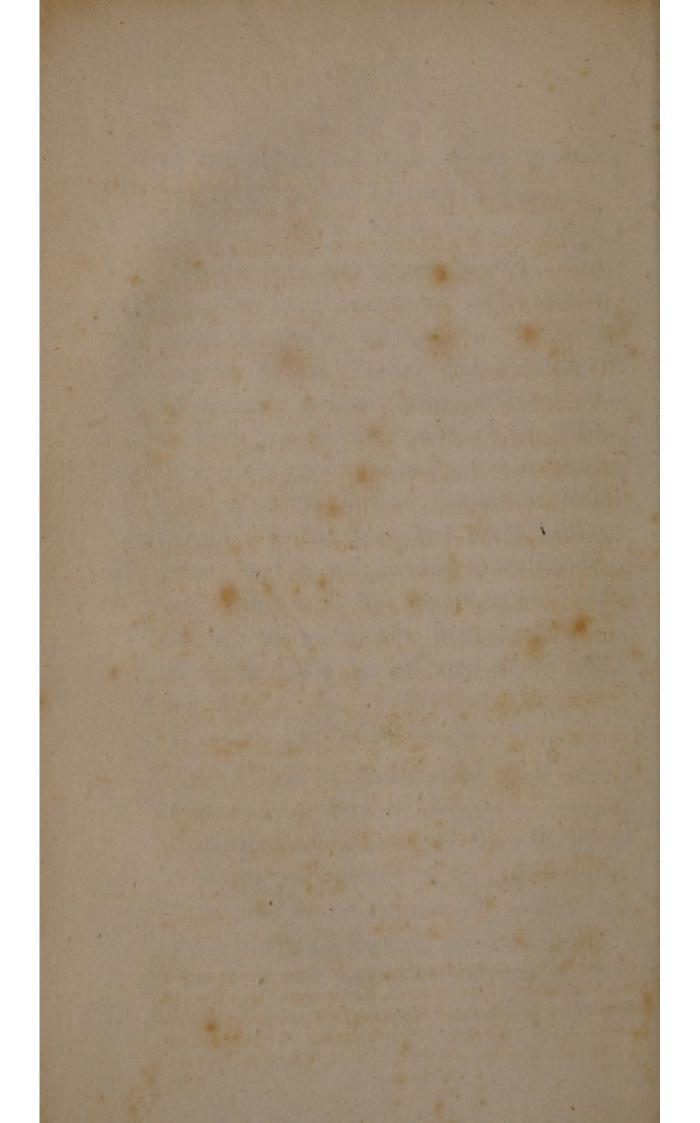
* * * *

Our readers may remember, that Cowhage has been mentioned as an anthel-' mintic by Doctor M'Bride, in his introduction to the Theory and Practice of ' Physic, and by some other authors. But we have feen no description of the plant. ' There is a good specimen of it at present ' growing in the Botanic Garden at Edinburgh. It has been but lately brought there, and is not in that state which is ' most favourable for investigation. cannot, therefore, give fuch a description of it as could be of any use.' Ibid. pag. 83.

Extract from the same volume, page 202.

' In a former number, we gave an account of the good effects obtained, from the use of ' Cowhage, or Cowitch, as an anthelmintic. This plant is also a native of the East Indies; and the following accurate description of it was lately transmitted by Mr. Tames





[35]

James Kerr, at Patna, to the Professors of Medicine in Edinburgh.

Nomen. By Europeans it is called Cow-

hage, or Cowitch. By many writers, a

Phaseolus. By the natives of Bengal,

' Cadjuct, from the itching and seratching

it produces.

'Class. According to the system of the incomparable Linnaus, it stands in his feventeenth class, DIADELPHIA, and fourth order, DECANDRIA.

'Genus. The flowers of this herbaceous 'plant differ very essentially from the Pha'feolus. They have Linnæus's distinguish'ing mark of a Lupinus; but in other 'parts of the flower, and habit of the 'plant, the difference is very considerable. 'From the remarkable length of the alæ 'alone, I imagine it is sufficiently distin'guished from every other flower, and probably it deserves to constitute a new 'genus*.

" Radix.

^{*} For which reason, it may not be improper to retain the name which I have adopted, being that which Doctor Browne, in his Natural History of Jamaica, has distinguished it by. He calls it Stizolobium, spicis multiplioribus pendentibus alaribus, floribus ternatis, purputeis:

[36]

- Radix. The root is fibrous.
- · Truncus. The stem is herbaceous,
- equal, voluble, climbing, cylindrical, and
- ' naked; diverging into many branches,
- and rifing to a great height, when properly
- fupported.
 - ' Folia. The leaves are alternate, and tri-
- · lobate, rifing from the stem and branches
- ' about the distance of twelve inches from
- each other. The foot-stalk is cylindrical;
- ' from fix to fourteen inches long. The
- ' lateral lobes are obliquely ovate, obtuse,
- entire, and nervous, with short petioles,
- and two very small stipulæ between the
- ' lobes. The middle lobe is smaller, ovate,

reis: and thus characterizes the parts of fructifica-

PERIANTHIUM. Monophyllum, tubulato-campanulatum, subventricosè ringens; Labium superius, majus, obtusè emarginatum, reslectens—Inferius, tridentatum, suberectum.

COROLLA Leguminosa. Carina bipetala, petalis ob-

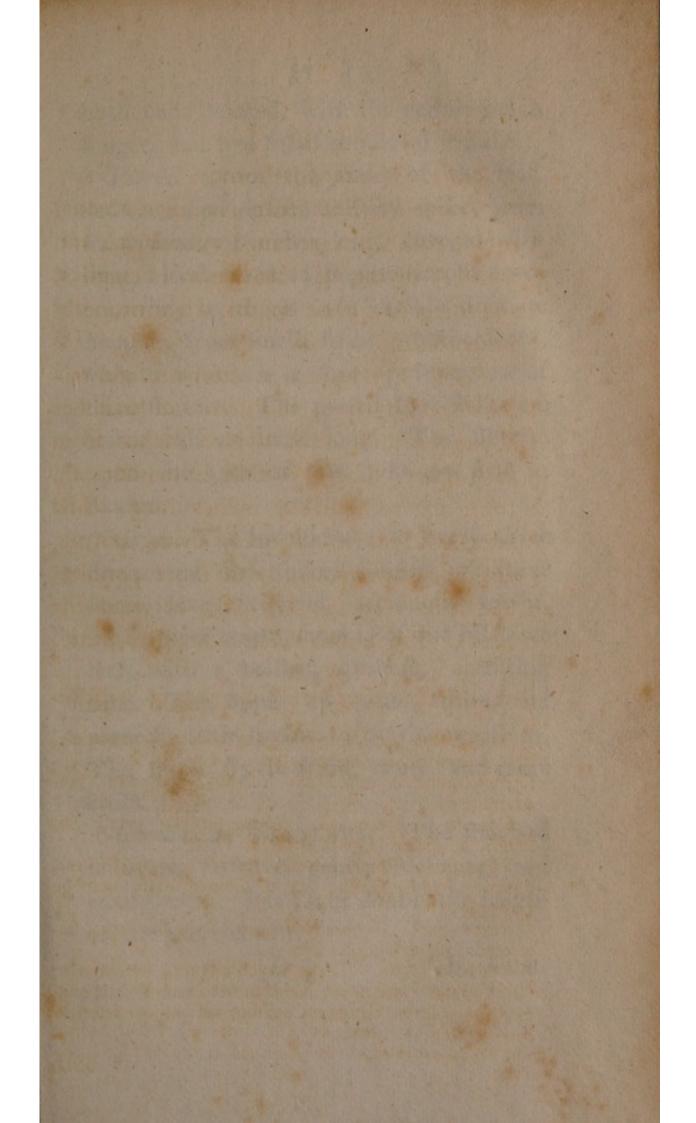
longis, ad apices agglutinatis.

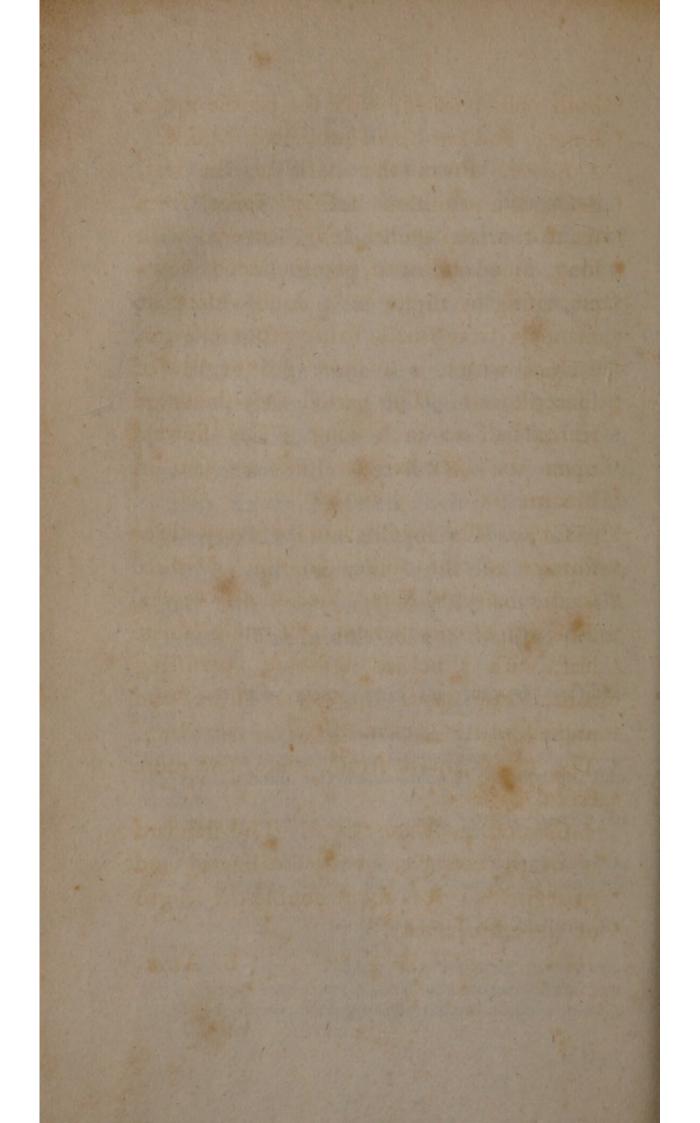
STAMINA. Filamenta decem, infernè connata, supernè, libera. Antheræ ovatæ, alternè submonstrosæ, oblonge tumentes.

PISTILLUM. Germen oblongum. Stylus subulatus, sta-

minibus longior; figma fimplex.

Pericarpium. Legumen oblongum, sub-æquale; ad utrumque extremum adversè subarcuatum; hirtis pungentibus obsitum, seminibus quatuor vel quinque refertum renisormibus.





- both ends pointed, with the petiole much
- · longer, and two small subulated stipulæ.
- Flores. From the axilla of the leaf,
- ' descends a pendulous solitary spike, from
- ' fix to fourteen inches long, covered with
- long, blood-coloured, papilionaceous flow-
- ers, rifing by threes in a double alternate
- ' manner, from small, fleshy protuberances,
- each of which is a short pedunculus of
- three flowers. The partial foot-stalks are
- ' scarce half an inch long. The flowers
- upon the apex of the spike are first in
- bloom. adivad staiog bets
- " Calyx. The involucrum to every three
- flowers of the spike, consists of three
- ' fmall, hairy, ciliated, deciduous leaves.
- 'The proper empalement is of one bilabiate
- ' leaf, with a bellied, gibbose, persisting
- tube. The upper lip, ovate, entire, and
- ' pressed a little backward by the vexillum.
- ' The under lip is trifid, acute, and more
- erect.
- " Corolla. a. VEXILLUM. The standard
- is ovate, concave, gently reclinate, and
- ' emarginate. It is about double the length
- of the empalement.

b. ALE. The wings are of an oblong,

' lanceolate shape, double the length of the

flandard, and both fides connivent, with

fhort, furrowed, nectariferous tongues.

c. CARINA. The keel is falcate, acu-

' minate, compressed, closely shut, very

narrow, and scarce longer than the wings,

with a curved, diffinct apex.

Stamina. The filaments are diadelphous;

nine united, and one separate; equal in

length, and distinct above. The single

filament, and four others, terminate in

' thick truncated points, having orbicular

' antheræ inserted into them by very short

necks. Alternate with these are five other

' filaments, much more flender, and of a

' subulate shape, having oblong and larger

antheræ. When the flower is in perfection,

the filaments extricate themselves from the

' keel, by an elastic spring fly upwards, and

press upon the standard.

' Nectarium. There is a finall tubular

nectarium with ten obtuse points, incir-

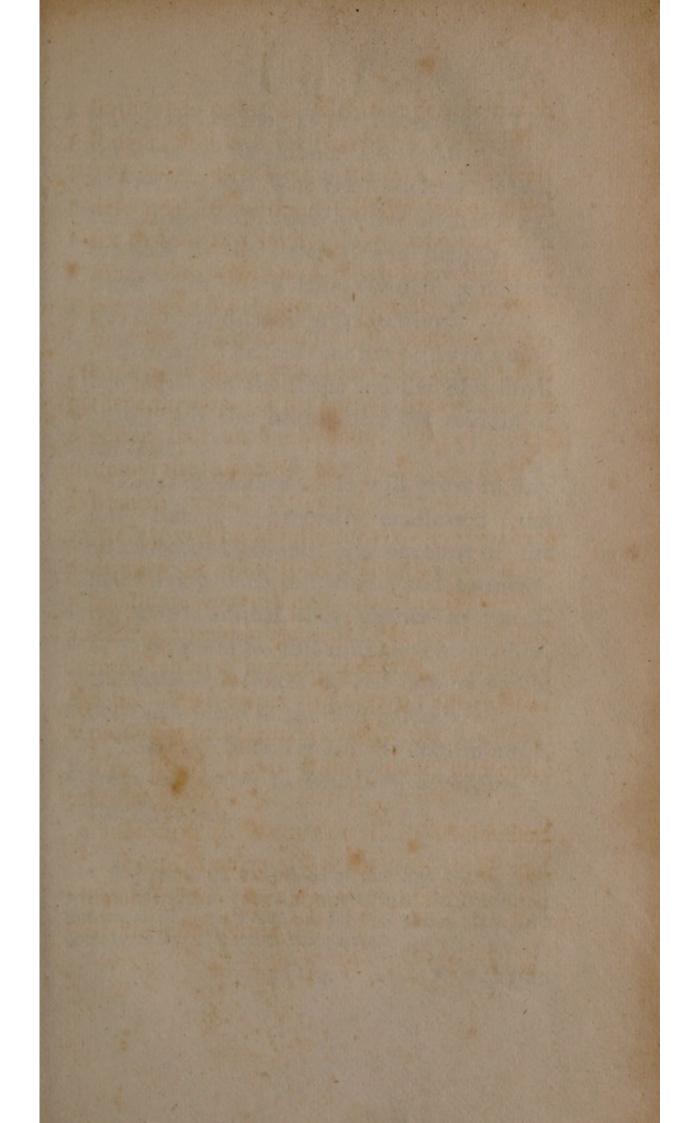
s cling the pedicle of the germen.

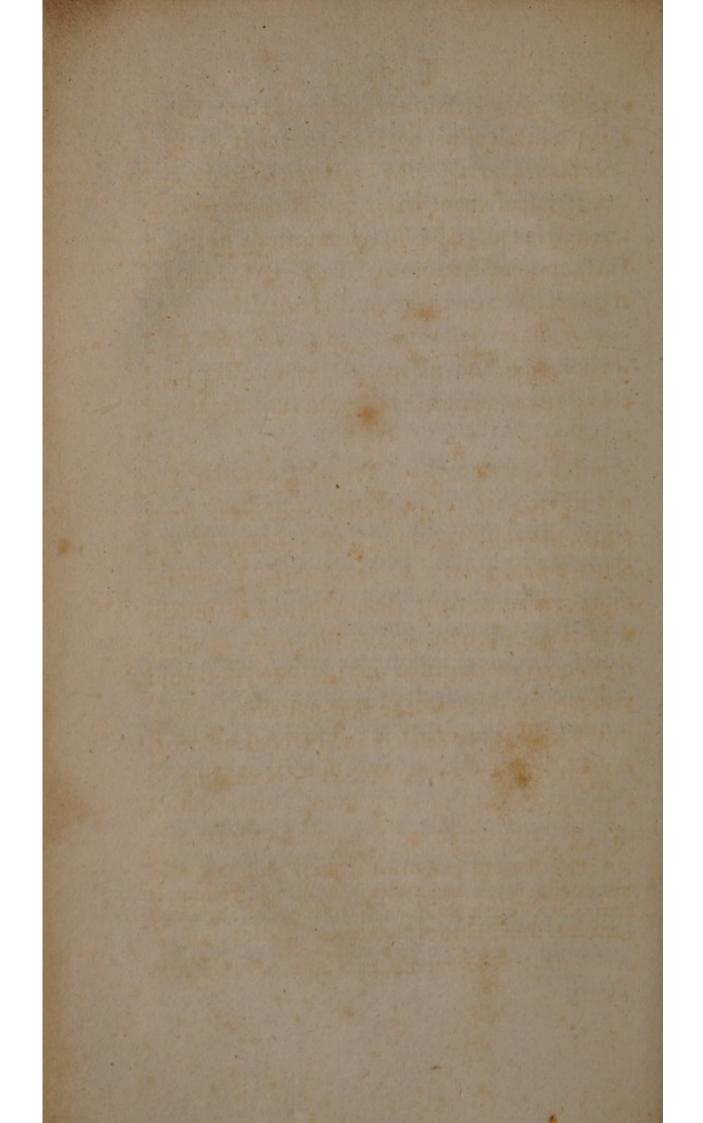
' Pistillum. The (a) GERMEN is cylin-

drical, hairy, and almost the length of the

'empalement. The (b) STYLE is filiform,

hairy,





- hairy, and as long as the filaments. The
- (c) STIGMA is globular and fmall.
- ' Pericarpium. The fruit is a leguminous,
- ' coriaceous pod, four or five inches long,
- ' crooked as the letter f, and densely co-
- ' vered with sharp hairs, which penetrate
- ' the skin, and cause great itching.
- Semina. The feeds are five or fix in num-
- ber, nearly of the shape and size of a small
- bean, with the hilum near the middle of
- f the feed.
- ' Locus & qualitas. It will grow in any
- foil; but it is generally eradicated from
- f all cultivated grounds, on account of the
- hairs flying with the winds, and torment-
- ing every animal they chance to touch.
- If it were not for this mischievous quality,
- ' the beautiful spikes of red flowers would
- deferve a place in the best gardens.
- 'Tempus. It flowers in the cool months,
- from September to March *, according to
- the fituation,

* This is to be understood of the East Indies, from whence the above account is transmitted. In Jamaica, it flowers at different times, in different places, but most commonly from March to November.

From this accurate description, it ap-

' pears, that the Cowhage is the dolichos pru-

' riens of Linnæus. Mr. Kerr has said no-

' thing with regard to its medicinal virtues.

' But in confirmation of Mr. Cochrane's ac-

count, we shall here present our rea-

' ders with the testimony given concerning it

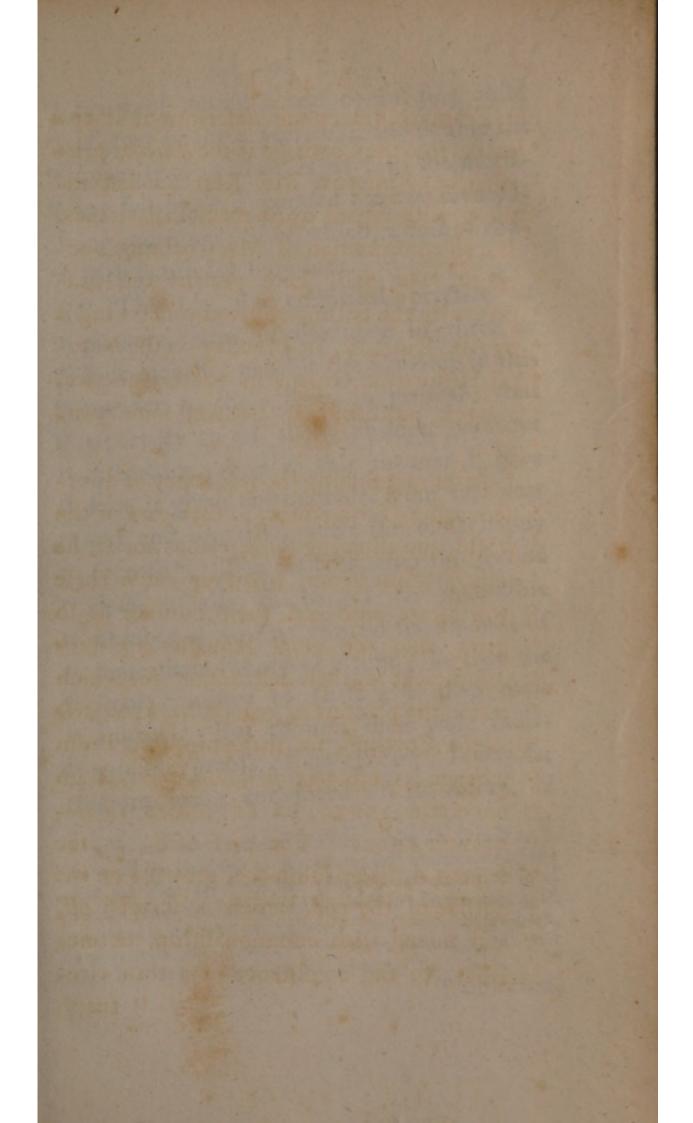
by Mr. Bancroft, in his essay on the Natu-

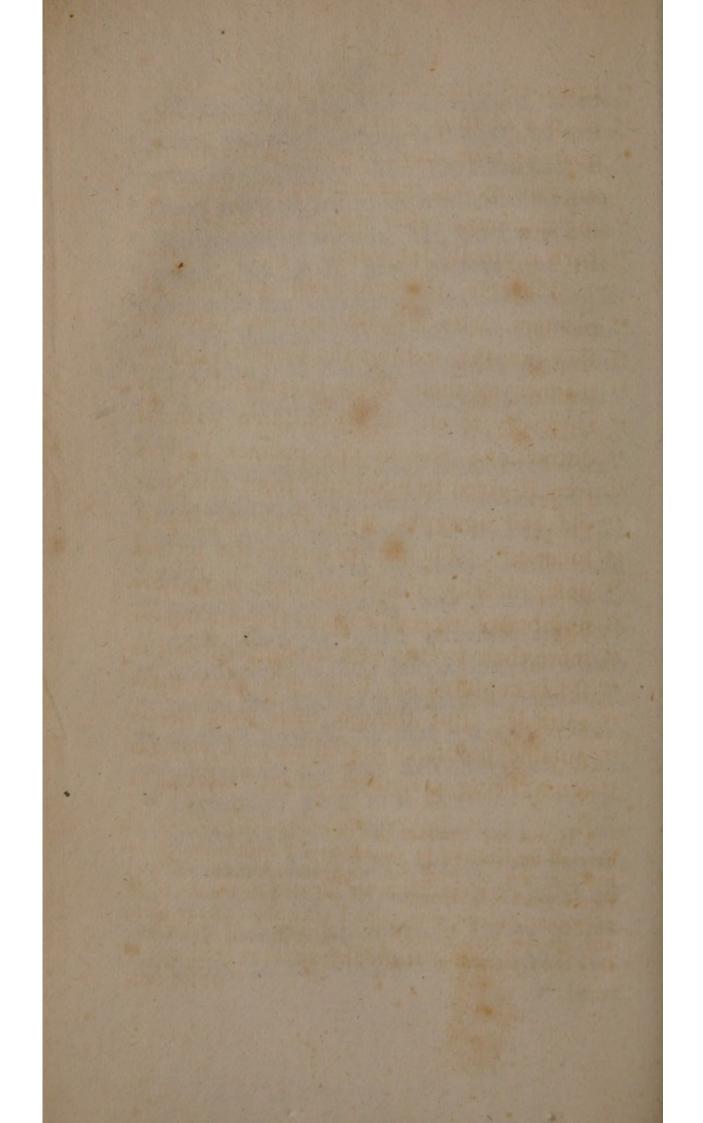
ral History of Guiana in South America,

' a work published at London some years

ago.

' After mentioning the frequency of diforders arising from worms in that part of the ' world, and affigning some reasons for it, he ' adds, " But from whatever cause these " worms are produced, their number is fo " great, that the usual remedies are very " insufficient for their destruction; for which " reason the planters in general have recourse " to the Cowitch, for that purpose. From " whence its use was first suggested, I am uncertain; BUT ITS EFFICACY IS IN-DISPUTABLE. The part used, is the fetaceous, hairy substance, growing on the " outfide of the pod, which is scraped off, " and mixed with common fyrup, or mo-" lasses, to the consistence of a thin elecff tuary,





" tuary, of which a teaspoonful to a child

" of two or three years old, and double the

" quantity to an adult, is given in the morn-

" ing fasting, and repeated the two succeed-

" ing mornings; after which, a dose of rhu-

" barb is usually subjoined.

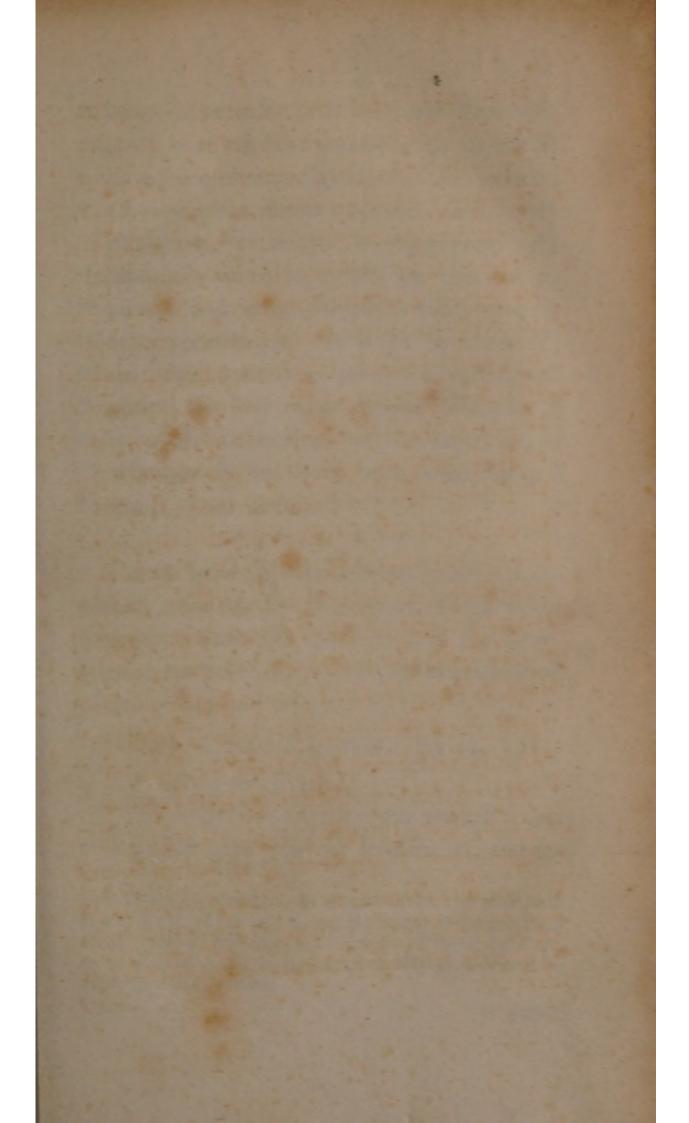
"This is the empirical practice of planters, who usually once in three or four months, exhibit the Cowitch in this manner to their slaves in general; but especially to all their children without distinction; and in this manner I have feen it given to hundreds, from one year old and upwards, with the most happy fuccess. The patients, after the second dose, usually discharged an incredible number of worms, even to the amount of more than twenty at a time; so that the stools consisted of little else than these animals. But though these were indifficultable proofs of its efficacy, I was far

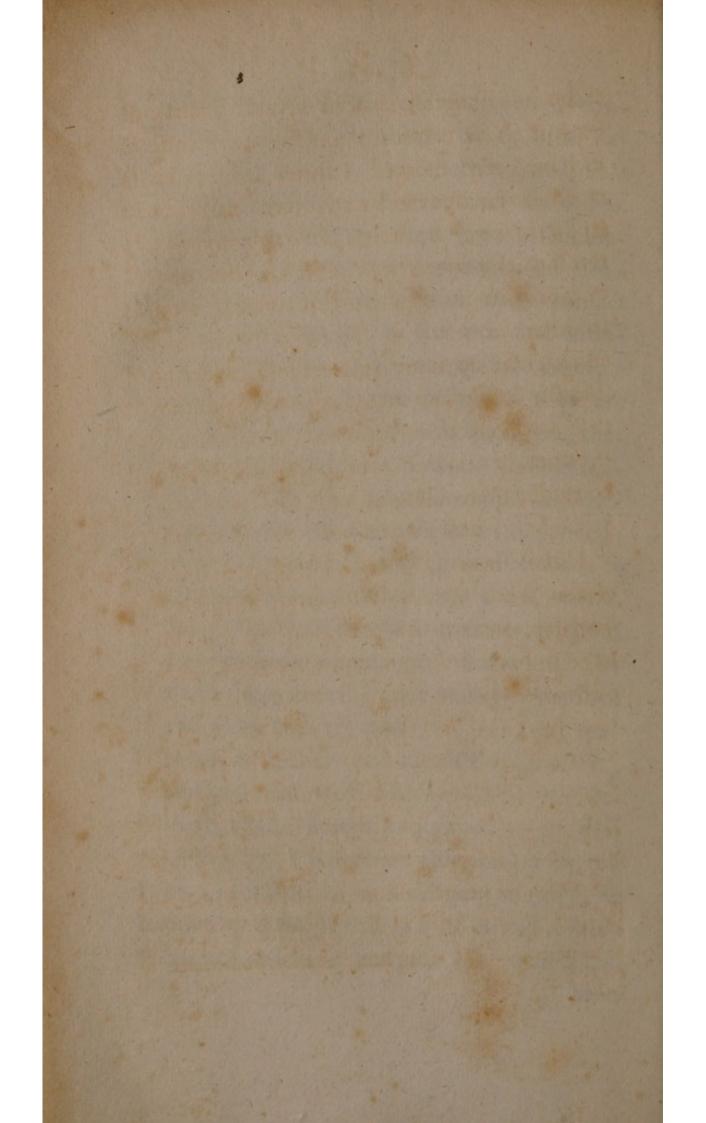
" from being convinced of its safety. I

" observed,

^{*} It was my constant practice while in Jamaica, to have all the children of the estates and settlements, that I had the care of, from the youngest infant, to those of twelve years old, brought to me once in two months, to all of whom, without exception, I gave the cabbage-bark, and latterly, the Cowhage, for three mornings, whether they had symptoms of worms, or not.

observed, that the substance given, con-" fifted of an affemblage of spiculæ ex-" quifitely fine, and fo acutely pointed, that " when applied to the skin, they excited an " intolerable itching, and even inflamma-" tion, from whence I apprehended dan-" gerous consequences from their contact " with the coats of the stomach and intes-" tines. Indeed, when mixed into an elec-" tuary, in the manner in which they are " given, their elasticity is so impaired, that " they do not produce the fame sensible irri-" tation; but yet I could conceive no other " quality, on which their efficacy depended; " especially after I had prepared both a " tincture and decoction from the Cowitch, " and given them to worm patients, without " any fenfible advantage. Influenced by " these suggestions, I particularly examined " the state and condition of all such pa-" tients as I knew had taken the Cowitch; " and yet, can with the greatest truth de-" clare, that, though prejudiced to its dif-" advantage, I was never able, either by my " own observation, or a diligent enquiry, to " discover a single instance of any ill confequence resulting from its use, which has been





"been so extensive, that several thousands
"must have taken it; and as no ill effects
"have been observed, I think, not only its
"efficacy, but safety, are sufficiently
"efficiently
"effic

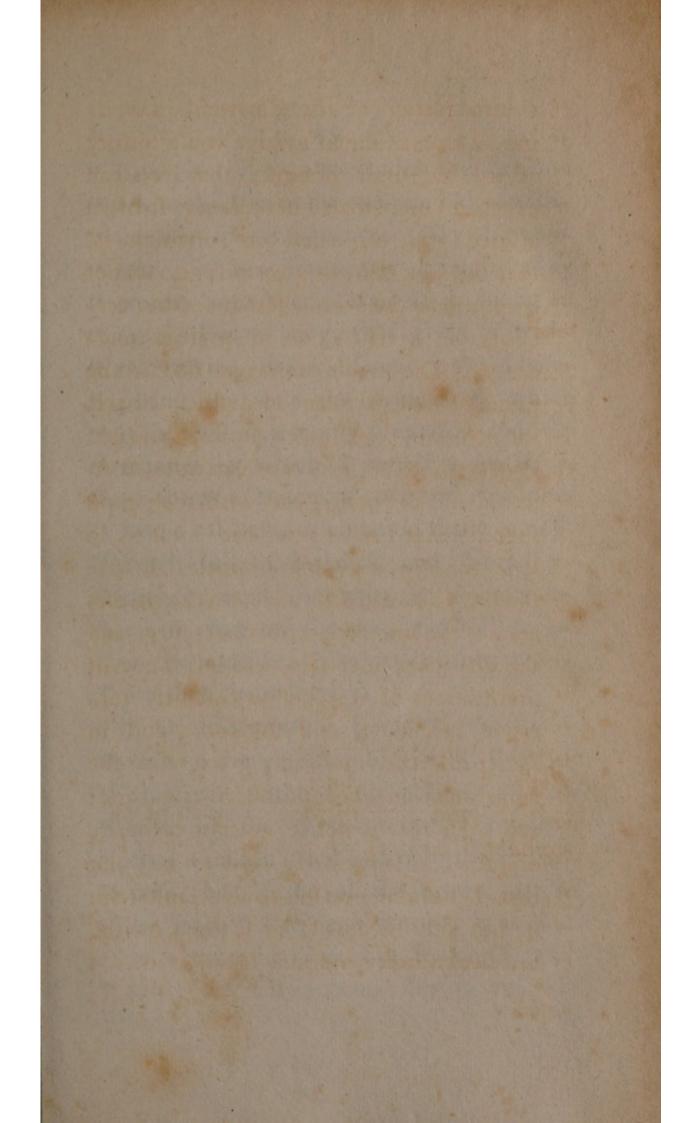
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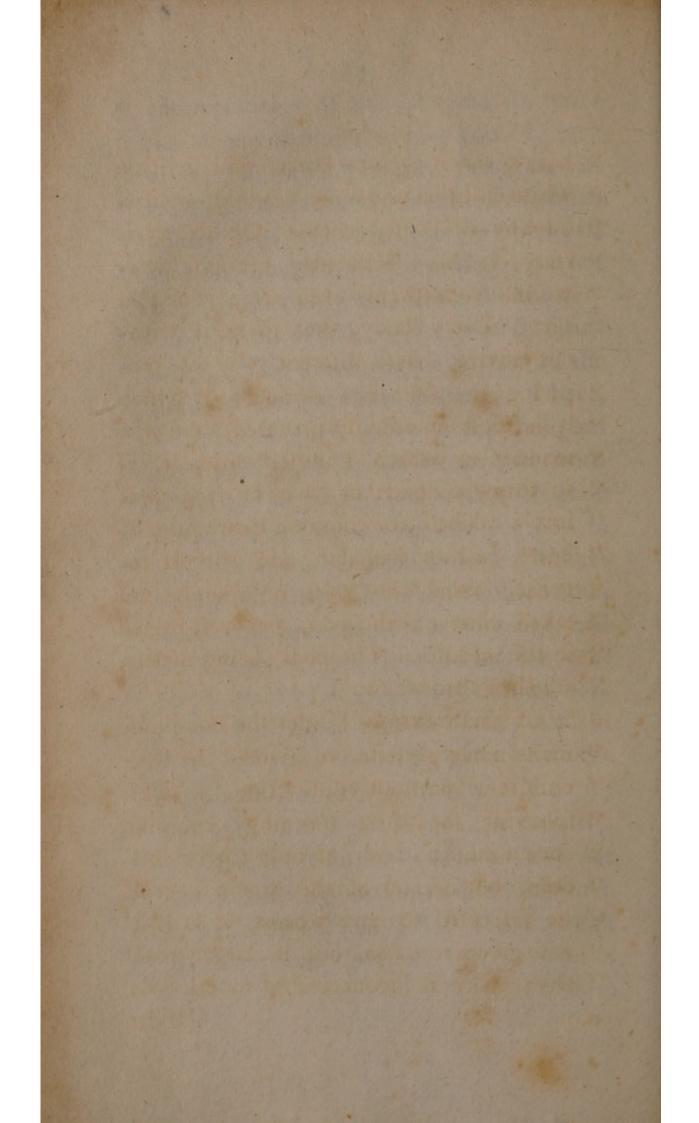
I shall here subjoin a letter which I received from Mr. Neil Stewart, surgeon, in Jamaica, relative to the success of the Cowhage in his practice, as a farther confirmation of its utility and safety.

- " Hope Estate, Liguanea, Aug. 9, 1782.
 - " My good Friend,
- "In compliance with your request, that "I would give you my fentiments, and re-

^{*} When we consider the nature of its operation, and that it is carried through the whole length of the intestinal canal, without suffering any alteration, I think there can be no fort of doubt of its being equally troublesome to every species of worm.

se commendation of the Cowitch, in writ-" ing, I now fit down to give you a history " of it; but must premise, that you can " expect no more than I have already so often " affured you of, vivá voce: - which is, " that the Cowitch, as a vermifuge, has not "its equal in the world, either for the cer-" tainty of its effects, or its perfect inno-"cence. Too much cannot be faid in the " praise of that excellent medicine. I have, " for my own part, given it for these ten " years past, in all forts of worm cases, both " to old and to young; and with fuch good " fuccess, that I have never had occasion to " look for any other anthelmintic. I have " totally discarded the useless æthiops miof neral: the uncertain crude mercury, and " the still more uncertain, and less innocent " preparations of it; fuch as calomel, cor-" rofive fublimate, and fo forth; and in " short, all other medicines given with the " fame intention, except cabbage-tree-bark; " and even that is not so great a favourite " of mine, as it formerly used to be; not " that I have any reason to find fault with " it, but only because I find the Cowitch " to answer every purpose I can want. I





" have given it even to tender and delicate " white children under one year old, -with-" out any ill consequences. On the con-" trary, it has frequently brought away " worms from them, even at fo young an " age. Every body, that gives it with-" out advice, has a diferent way of pre-" paring it; but the manner in which " it is most commonly prepared, and the " manner in which I myself order it, is " to throw a dozen or two of ripe pods " into a calabash, or common quart punch-" bowl, full of melaffes, and stir all to-" gether until the hairs or spiculæ are " taken clear off the pod, and well mixed " in the melasses. The pods, being useless, " are then thrown away.

"Of this mixture, I order the hot-house man on every estate, to give all the little children, without distinction, a table fpoonful for three mornings running, once a month; and not only to the children, but if any of the grown negroes are suspected to have worms, it is likewise given to them, but in larger quantity: and it is inconceivable to one who

" has not known the good effects of Cow-

" itch, what wonderful success it has in ex-

" pelling every species of worms; and I can

" fafely aver, I never faw any ill confe-

" quences, or had any complaints, from

" those for whom I have prescribed it,

" or recommended it to. However, I

" would not think it adviseable to be

" given where there might be any disorder

" tending towards inflammation in any part

" of the alimentary canal, or where the na-

"tural mucus is defective.

" I agree with you, in supposing, that the

"Cowitch acts only mechanically, in the

" fame manner as cut hair would do, and

" from no intrinsic virtue; because a de-

" coction of it is of no manner of use.

" I must desire you particularly to take

" notice, that it is, and always has been my

" practice, to premise an emetic, where it

" can be done with propriety, previous to

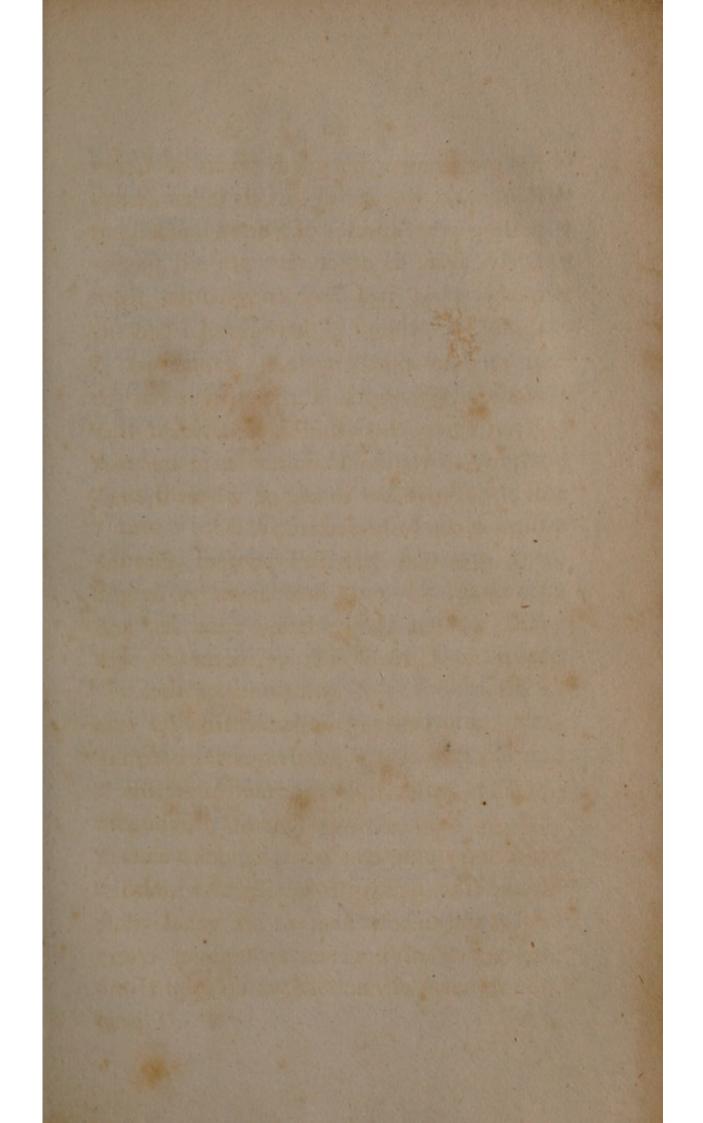
" entering upon the Cowitch. I have often

" found the good effects of it, which in-

" duces me to continue it. A gentle dose

" of ipecacuanha, or tartar emetic, clears

" the stomach of matters which might im-





[47]

" pede the action of the Cowitch; and to

" children, a little oxymel of fquills, will

" answer the purpose; but some of the

" Creoles, who feldom use an European

" medicine when they can find an apo-

" thecary's shop in the bushes, never use

" any emetic for themselves or their ne-

" groes, but the wild ipecacuanha, or red-

" head.

"I have received the thanks of several

" ladies in and about Liguanea, and the

" mountains-and in the town of Kingston

" also-who have used the Cowitch, from

" my recommendation-both for their own

" children, and for their negroes. They

" are all lavish in praise of its virtues.

" In short, I think it may be looked on as

" a more certain specific in worm com-

" plaints than the Peruvian bark in the

" cure of intermittents.

" I am, &c. &c.

"Your's affectionately,

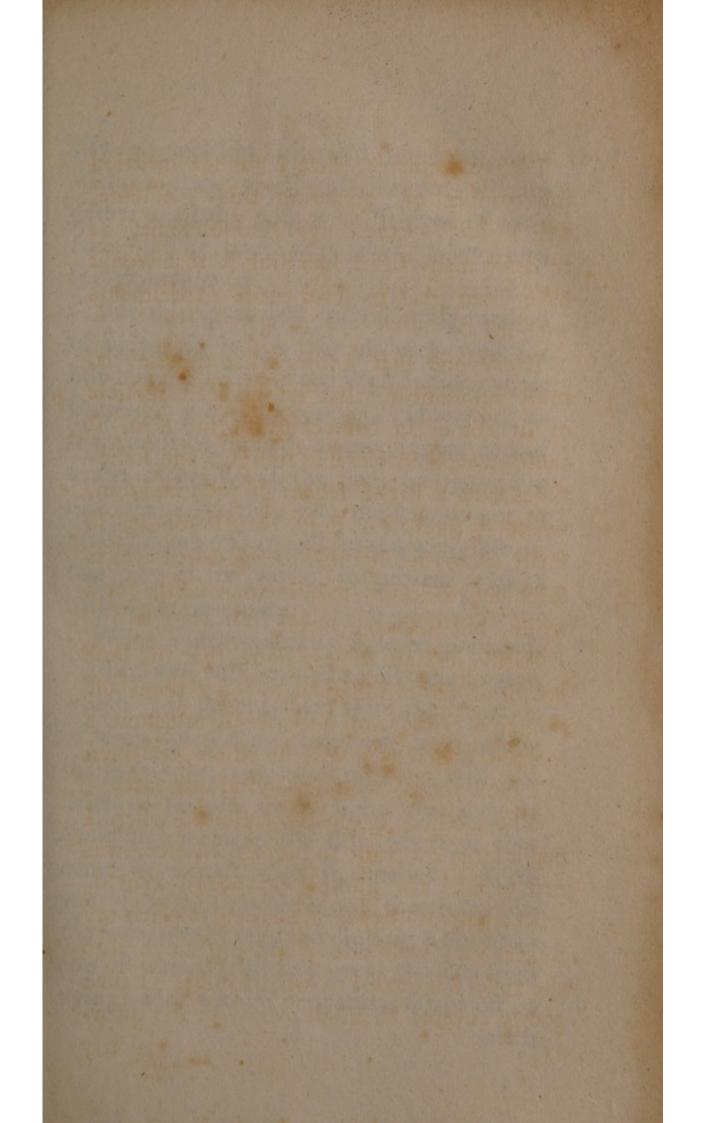
" NEIL STEWART."

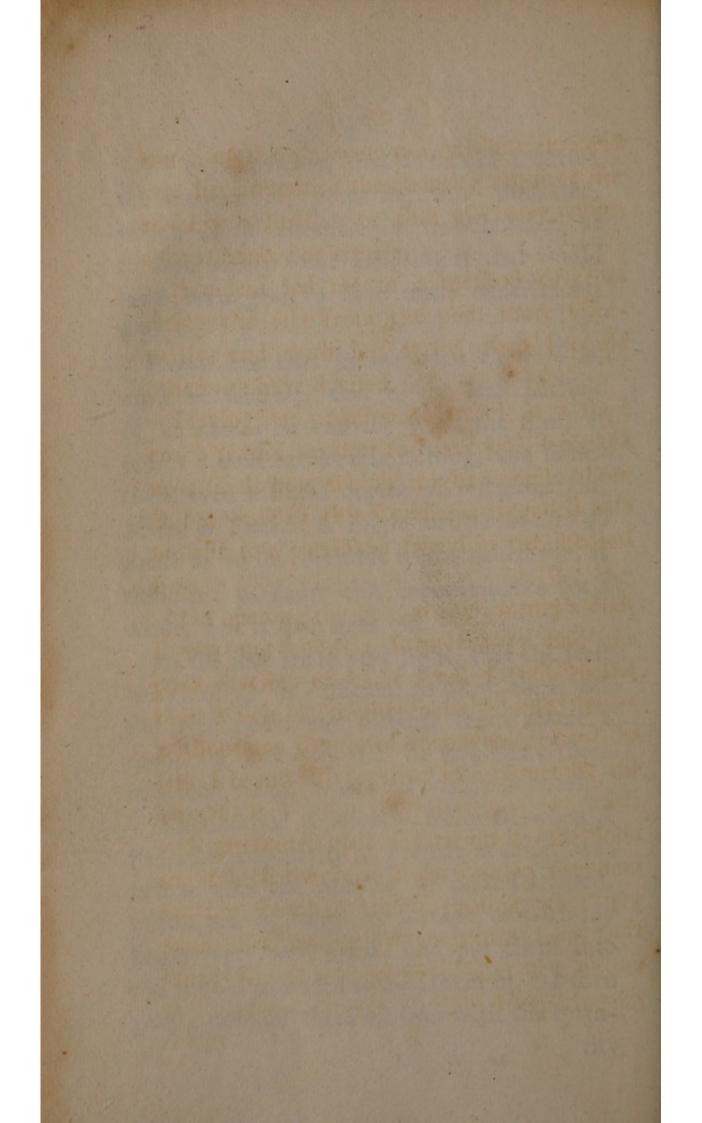
IT now remains, that I should mention the manner of preparing this medicine, which is so exceedingly troublesome, as to deter many from handling it that would have been glad to have made experiments with it.

Every one that knows what Cowitch is, must be sensible, that if the least particle of it comes in contact with the skin, it causes a most intolerable itching, and sometimes even a slight degree of inslammation, where it fixes. A single bristle of it, so small as to be invisible to the naked eye, is sufficient to cause this inconvenience for a while, but it soon goes off.

As the fetæ are so very light, that the least breath of air is sufficient to blow them off the ripe pods, and disperse them about a room, the best way will be to prepare them in a close room, where no wind can enter.

The method I usually followed when I had a large quantity to prepare at once, was first to take the number of pods I wanted, with a pair of tongs, or forceps, or with my fingers very well oiled; and put them into the vessel I intended to mix them in. I then gently covered them all over with the quan-





[49]

tity of melasses intended for them, and with a stick or spatula, stirred all together until the pods were stripped of their setæ. The pods were then taken out, and thrown away.

But this is at best but a clumsy method of preparing it. It may do very well for hot-house practice in the West Indies, where Cowhage grows in plenty. However, as there must be by such means, a great deal of waste, especially if the pods be not quite ripe (for unless they are, the setæ do not so readily come off) it will be more eligible, in this part of the world, to proceed with a little more economy.

When a small quantity is to be prepared, the best way will be, first to oil your singers, which will defend them from the irritation of such spiculæ as come off, in handling the pods—for, take what care you will, the hairs or spiculæ are so light, that they sly about and torment the skin wherever they come in contact with it, unoiled. With your singers, thus defended, therefore, take the pods, one by one, and dipping each into a cup of water, (still to prevent the setæ from slying) with a knife or spatula, scrape off as

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much

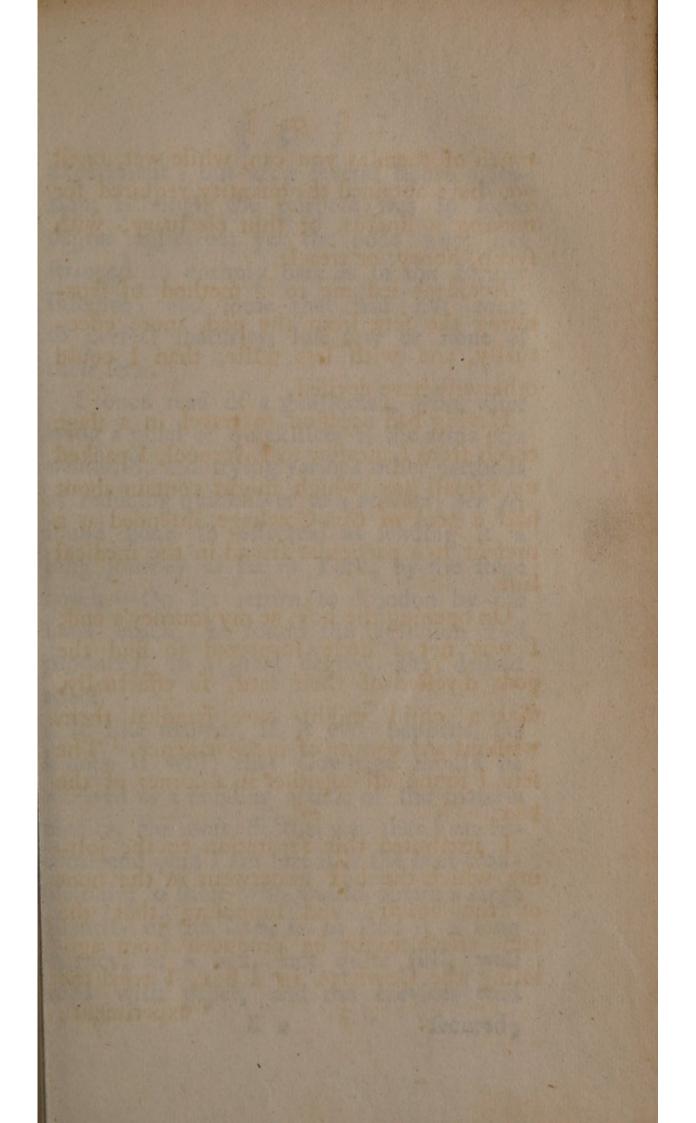
much of them as you can, while wet, until you have obtained the quantity required for making a linctus, or thin electuary, with fyrup, honey, or treacle.

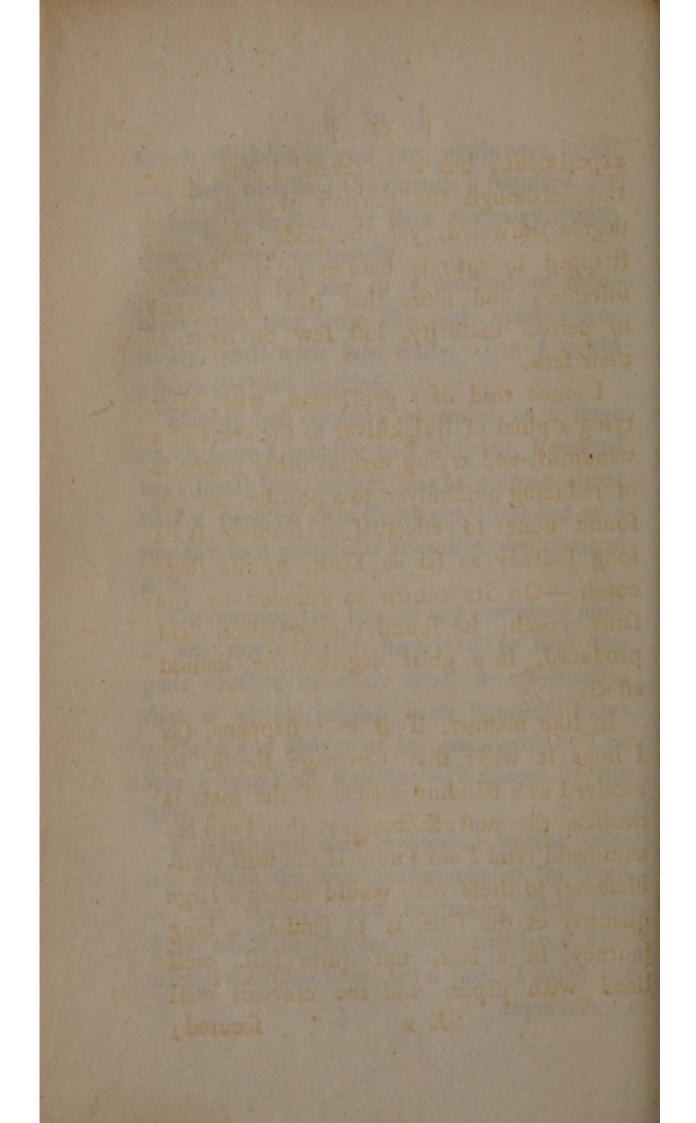
Accident led me to a method of separating the setæ from the pod, more effectually, and with less waste, than I could otherwise have devised.

Having had occasion to travel in a stage coach from Lancaster to Liverpool, I packed up a small box, which might contain about half a peck of this Cowhage, intended as a present to a particular friend in the medical line.

On opening the box, at my journey's end, I was not a little surprized to find the pods divested of their setæ, so effectually, that a child might have handled them without any danger of inconvenience. The setæ I found all together in a corner of the box.

I attributed this separation to the jolting which the box underwent in the boot
of the coach; and supposing that the
same effect might be produced from agitating the Cowhage in a box, I tried the
experiment;





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experiment; but after several hours agitation, although the purpose was in some degree answered, yet the pods were not stripped so entirely bare as in the former instance; and some that had not come to perfect maturity, lost few or none of their setæ.

I once read of a gentleman, who, after tying a phial of quickfilver to the arms of a windmill, and trying various other methods of reducing quickfilver to a powder, per fe, found none so effectual as sending it a long journey as far as York, by the stage coach.—On its return to London by the same coach, he found the agitation had produced, in a great degree, the desired effect.

In like manner, if it ever happens, (as I hope it will) that Cowhage should be received as a standing article of the materia medica, the most effectual way that I can recommend (and I am sure it is the least troublesome) to those who would obtain a large quantity of the setæ, is to send it a long journey, in a box, not quite sull, well lined with paper, and the crevices well fecured;

fecured; care being taken to place the box about some part of the carriage; for instance near the fore, or hind wheels, where it may undergo the greatest degree of agitation.

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I once read of a gentleman, who, after

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In like manner, if it over happens, (as

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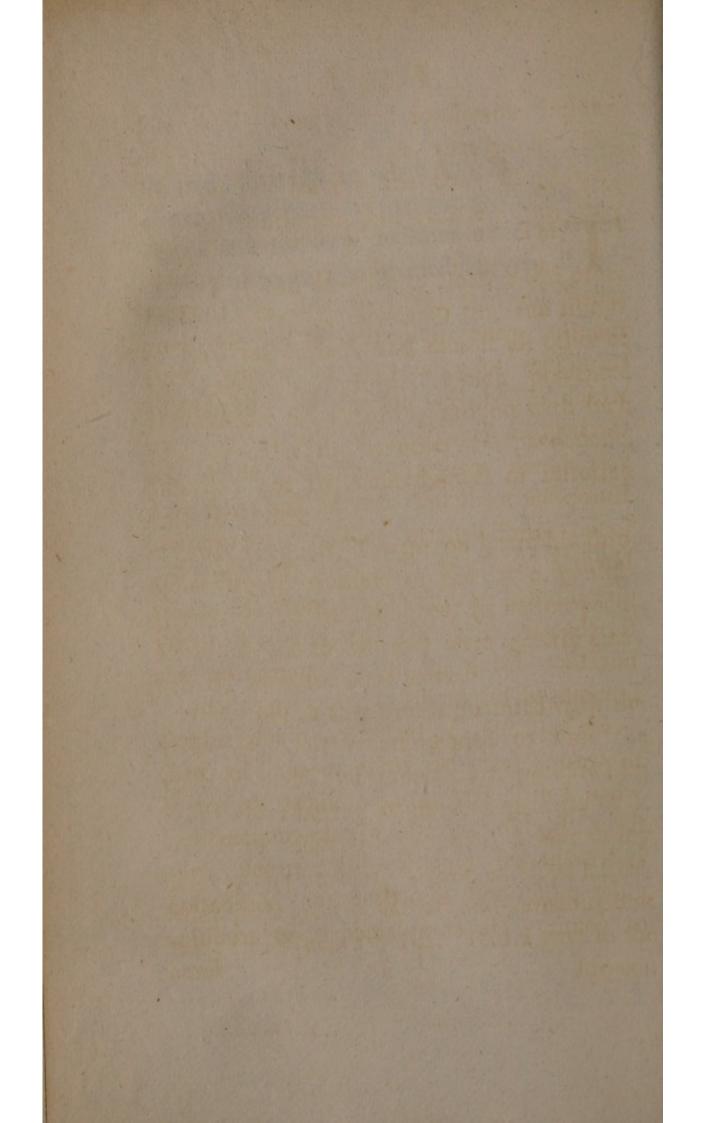
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CASEI.

HE Surgeon of a Guineaman, just arrived from the coast of Africa, where he had been upwards of thirteen months, made application to me, for some medicines for the cure of worms, with which he said, that not only he, but most of the negroes belonging to the cargo, were very much troubled, and for which the European medicines that he had tried were found insufficient to answer his purposes. He had heard, he said, that the West Indies afforded medicines, far more efficacious for the cure of worms, than any in Europe; but that, being totally a stranger, he was ignorant of the means of procuring them.

He told me, he had been much subject to worms from his infancy—and he had, when I first saw him, a slight degree of fever, stinking breath, a pale countenance, and want of appetite—low, quick, irregular pulse, and sometimes an inclination to vomit. He complained of a trouble-

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fome husky cough, and intolerable itching of the nose. A diarrhoea, that had attacked him on his leaving the coast of Africa, and still continued, had reduced him very much.

He had had recourse to aloetics and other bitter purgatives, powdered tin, and filings of tin; mercurials, and almost all other of the known vermifuges, which prevented the disorder from gaining ground with such rapidity as it might otherwise have done, but had not the desired effect of restoring him to health.

At his request, I went on board his ship, where a great number of the cargo, consisting chiefly of Mundingoes, (a nation peculiarly subject to worms) were greatly emaciated, from the same cause.

I was not at that time acquainted with the Cowhage, but recommended to him the cabbage-bark, and undertook to procure him fome. Not having a fufficient quantity of it by me to answer his purposes, I sent to my friend, Mr. Stewart, surgeon at Hope Estate, who with great politeness and humanity sent me a large quantity of it. This I gave to the surgeon

CONTRACTOR OF THE RESIDENCE OF THE PARTY OF THE REPORT OF THE PARTY OF THE PARTY OF THE PARTY. THE ASSESSMENT OF THE PROPERTY OF THE PARTY THE RESIDENCE OF REAL PROPERTY OF THE PARTY - which is not also between their property of the second furgeon of the Guineaman, with directions.

What good effects it might have had on the greater part of the negroes to whom he gave it, he could not tell, as the cargo was fold off in two or three days after he began to use it; but for himself, he found his health better in every respect, after taking two or three doses of the decoction. His way of taking it was, by a teacupfull in the morning, at his breakfast, instead of tea or coffee, adding a little milk and fugar to make it palatable. He did not perceive any immediate effects from it, unless, that on his taking a double dose one morning, it operated very powerfully as a diuretic. The feverish complaint, however, still continued, but in a flighter degree, and began to put on the appearance of a regular intermittent. I recommended to him a gentle emetic, which, with proper evacuants, and a few doses of the cort. Peruv. afterwards-and the use of vervain tea, (a gentle aperient, and vermifuge,) to the quantity of one or two quarts a day, reestablished his health before he returned to Europe.

I met

I met with him about a year ago in Liverpool, and he told me he had, fince I first
knew him, given the cabbage-tree-bark to
feveral children, and also been obliged again
to have recourse to it himself, with very good
success.

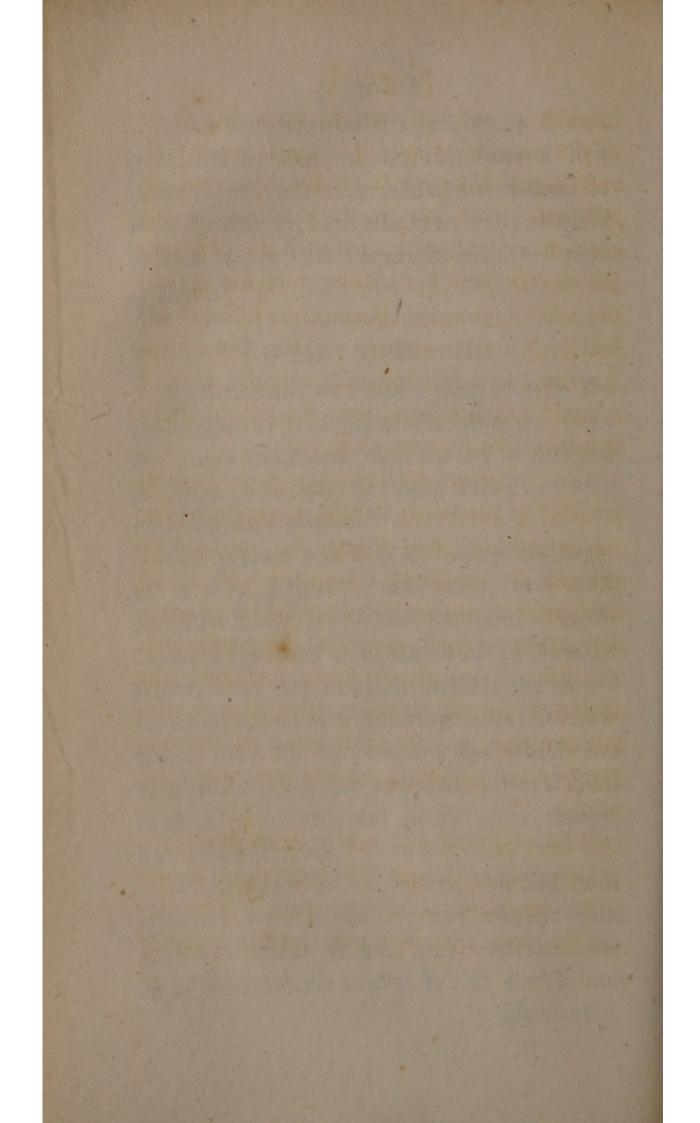
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to ofe it; but for himfelf, he found in

A gentleman, who had a plantation in the mountains at a confiderable distance from any other settlement, sent for me to visit one of his negroes, who had been seized in a very extraordinary manner.

The patient was a girl, about eighteen, of a very delicate constitution, and confumptive habit. She had, for about a month before I saw her, complained of an unusual sensation at her stomach, which she sometimes described as a gnawing pain; at other times, like the heart-burn, for which her master had given her magnesia, pulv. é chel. cancror. rhubarb, and many other things, but without effect.

When I was called to her, she had been attacked with a sudden and violent pain near the small of her back, towards the right side, which caused her to shriek out incessantly,



incessantly, and roll herself upon the sloor in the utmost agony. Her pulse was quick and high—her tongue clean; lips swelled, and pale; and her teeth grinding against each other. This I attributed to the pain she was in, but her master told me it was her usual custom. On enquiry, I found she had very regular returns of the catamenia. As she had been costive for some days, I ordered a clyster; and that she should afterwards be put in a warm bath.

From many of these symptoms, and others which had preceded, I made no doubt of her having worms; and I gave her, as soon as it could be prepared, about three ounces of decoction of cabbage-bark, with twenty-five drops of tinct. thebaica. In two hours, she seemed a little relieved, and had one stool. Towards evening, she slept a little, but was in very great pain all the ensuing night; and the next day, was bad as ever.

The clysters, and warm bath were repeated. From these she seemed to obtain some remission from her pain. The decoction was also repeated, in the quantity of four ounces in the morning, and again in the afternoon. She had no motion, except from her clysters. As her pains were not yet abated, I gave her an opiate at night, which made her sleep foundly. In the morning she took two ounces of Ol. Ricini, which gave her two stools, and she was something easier. I then left directions with the gentleman to whom she belonged, to be attentive in giving her the decoction of cabbage-bark, and requested he would send me word every day how she was.

Two days after, he wrote me a line, to inform me she was very well, and had voided a very long worm. However, in about a week, a messenger came to me, desiring that I would go to the mountain, to see the patient, who was worse than ever.

I suspected, that the medicines had been discontinued too soon; but was assured, that my directions had been adhered to very minutely.

On my arrival, I found she had been dead about two hours. I then requested permission of the gentleman to open the body, which he very readily granted. I found the lungs

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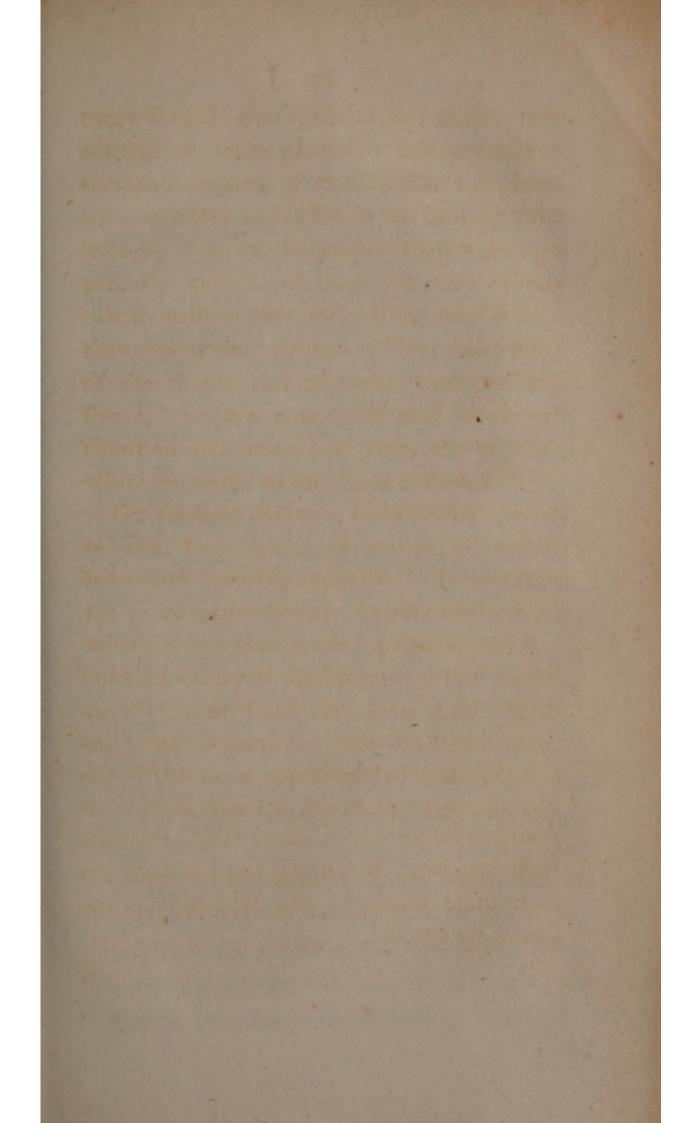
THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. more flaccid, and smaller than usual; they adhered in many places to the pleura, and though adhesions of the lungs to the pleura are sometimes to be found in healthy subjects, yet in this patient they were apparently morbid.—A small quantity of purulent matter was lodged in one of the branches of the trachea.—The other viscera of the thorax and abdomen were perfectly sound, except a portion of the duodenum, about an inch and a half from the pylorus, which appeared to be a little inflamed.

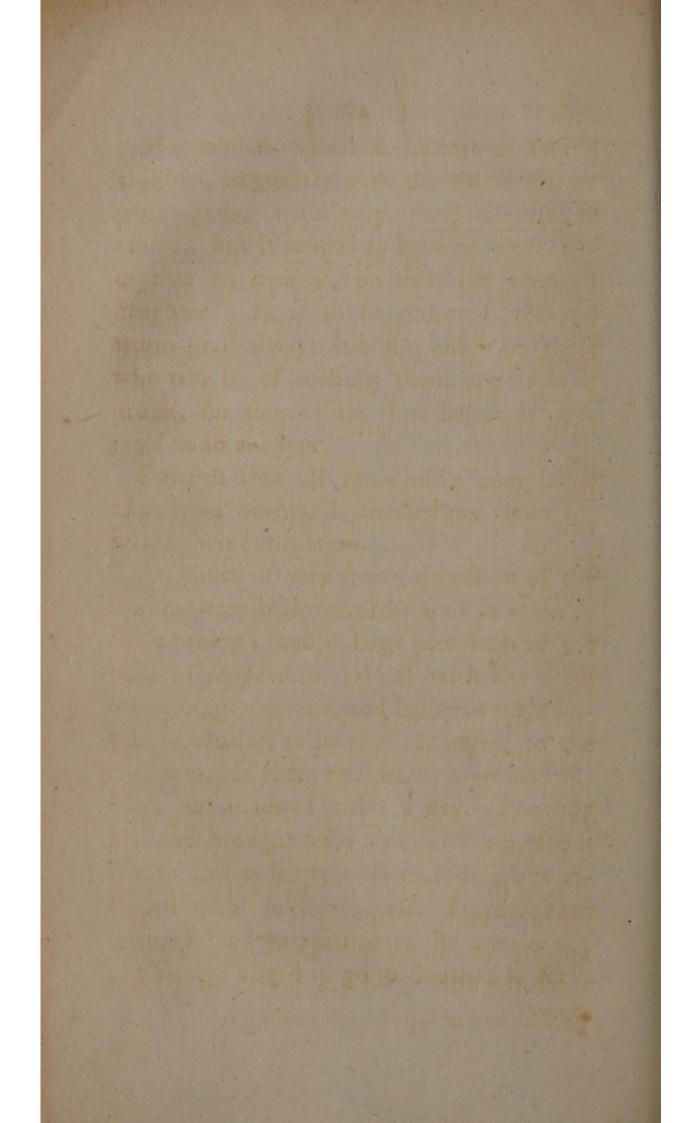
On opening different portions of the intestines, large knots of worms, of various sizes and lengths, appeared. I examined the parts very narrowly, in order to find out whether they had eaten their way through into the cavity of the abdomen, but no injury of that kind had been done; however, many parts of the intestines exhibited the same appearance of inslammation, as that which I first observed near the pylorus.

This girl had a husband, who went under strong suspicion of having once or twice attempted to poison her; nor was he altogether ther unsuspected of the same design on the present occasion; but I found no appearance that could serve to justify that suspecion, and am clearly of opinion, that worms were the occasion of this person's death.

I had heard of, but never, till after the time this case occurred, had experienced the effects of Cowbage. The cabbage-tree-bark had hitherto answered all my expectations; but on sinding its inefficacy in this instance, I was induced to make some farther enquiry concerning the Cowbage; nor was it long before I had an opportunity of being perfectly convinced of its superior essicacy. (See Case III.)

I have inferted the above case, as one of sew, wherein the cabbage-tree-bark sailed of its general effects, but not with a view to depreciate its virtues—for a medicine like this, whose general efficacy is incontrovertible, is no more to be rejected, because it sometimes has not the desired effect, than the Peruvian bark, because it does not always cure those disorders, for which it is accounted a specific.





children, fr.III at a Se A O beliain, or

S____, a child of five years of age, daughter of Mr. E-I-, a planter at the North Side of the Island, had been much afflicted with almost every symptom of worms, for upwards of half a year, without receiving the least relief from any of the numerous remedies, which she had taken. Scarce a week passed, that she was not attacked with a fever, attended with infatiable thirst, and difficulty of urine. The other fymptoms and appearances were, a pale, greenish complexion; grinding of her teeth, not only when afleep, but in the day time when awake; a quick, weak pulse; pain in the right fide, and about the navel; a foul tongue; difficulty of breathing --- a very stinking breath---laffitude, and inattention to every thing that passed .--- Her urine had a very bad fmell, was exceedingly turbid, and stained her linen of a greenish colour, which did not eafily disappear in washing. Her appetite was in general very good, but fometimes she loathed all manner of food. She picked her nose without ceasing.

Her mother, who had the care of several children, frequently gave the anthelmia, or worm-grass, with very good success to others; but it seemed to have no effect, except as an anodyne, on this, her youngest daughter. It is to be observed, that the worm-grass always has the effect on those who take it, of making them appear as if drunk, for some little time before it operated as an anodyne.

Satisfied that all the child's complaints arose from worms, I directed my views towards their extirpation.

An ounce of very strong decoction of the cabbage-tree-bark was ordered to be given in the morning; and a large cataplasm of the pulp of sempervive, (aloes) with the fresh leaves of garden-rue, and halbertweed, (santolina) bruised, to be applied, warm, to the abdomen, and there retained by a proper bandage, and renewed twice a day. The very first dose brought away a round worm, about twelve inches long; a second dose was attended with the like success. I ordered the medicine and cataplasms to be continued; and being obliged to go to South-side for a

AND THE REST ASSESSMENT TO PROPERTY AND PERSONS ASSESSMENT TO PROPERTY ASSESSMENT TO PROPER of respect to the second terms

THE ROLL OF STREET The same of the sa and the control of the said bearing and for any week, left proper directions for the management of the child, to be observed during my absence.

While at South-side, I happened to mention this case to a gentleman of the profession, who asked me if I had never tried the Cowbage. I told him, I had often heard of its good effects, and would be very glad to make trial of it, were I but sufficiently assured of its safety. He declared to me, that it was the only vermisuge he had made use of, in his practice, for several years; and on receiving from him the strongest assurances of its innocence, and certainty, which were confirmed by the attestations of several white people, who had seen and known its good effects, I took some of it home with me.

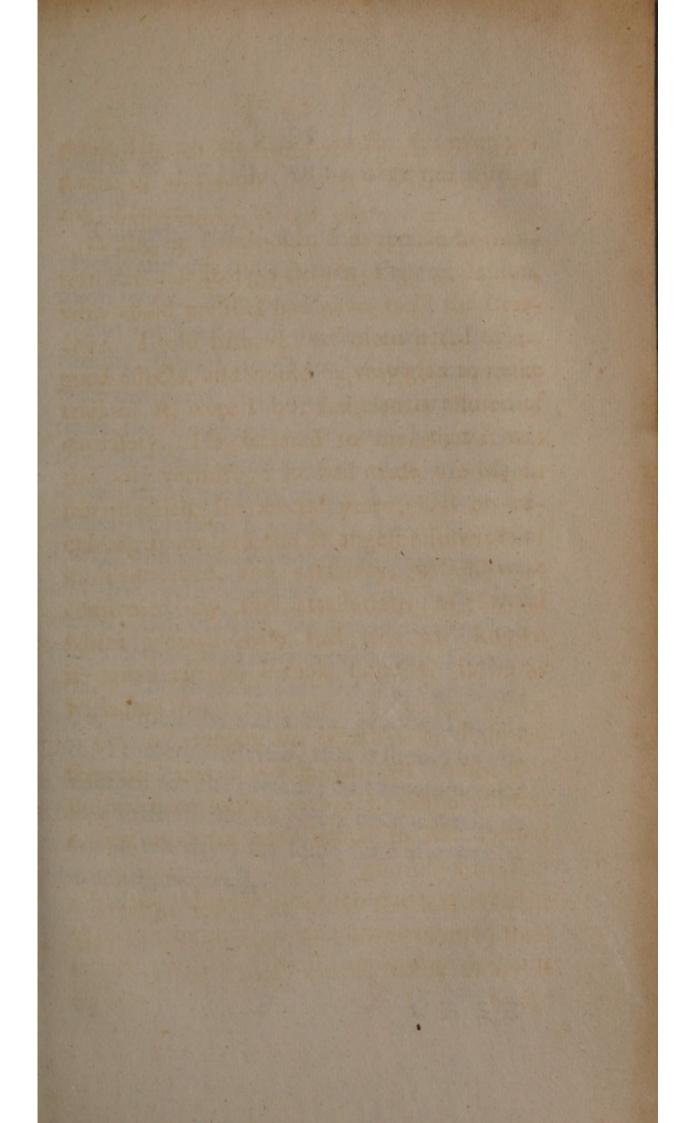
On my return to North-side, I found the child much worse, and was told, that she had been seized with sits. Besides these, a tenesmus was now added to her former complaints.

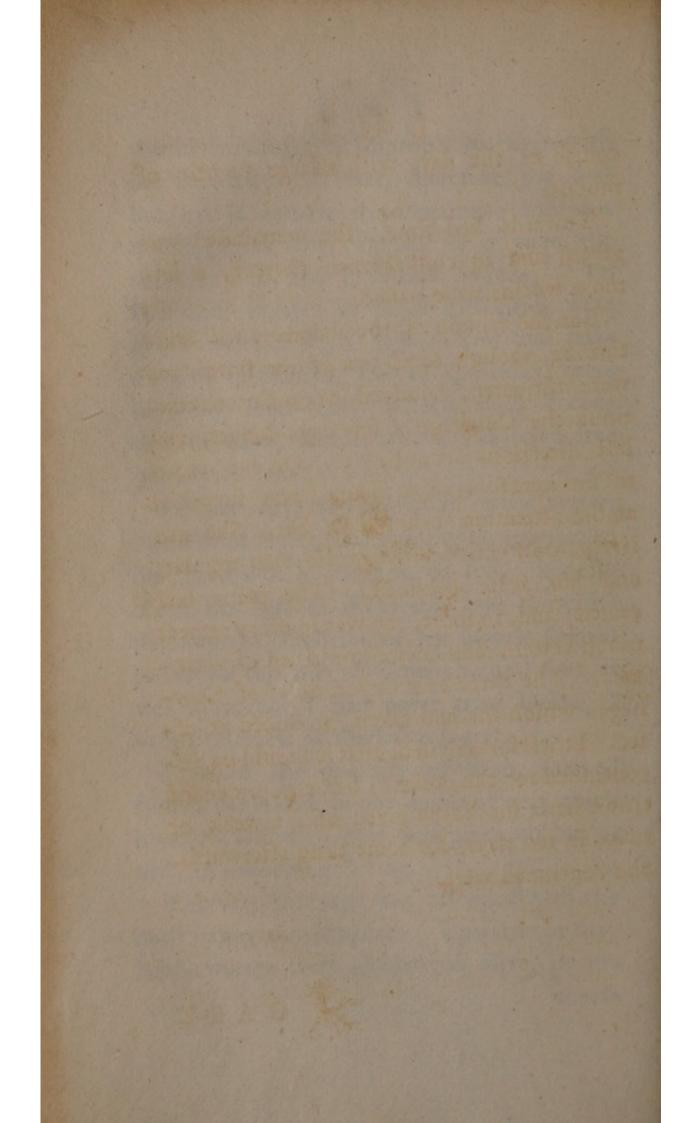
I considered, that while she had this last mentioned symptom, and while in every stool large quantities of mucus came away, it would would be altogether improper to begin with the Cowhage. It was, therefore, my first business to remove the tenesmus; and by a mucilaginous diet, supply, as it were, the deficiency of the intestinal mucus. To this end, opiates in small quantities were given twice a day; sago, okro, and farinaceous substances, free of acrimony, were her only food—and clysters, with decoction of okro, (hibiscus) were injected frequently.

In two days she appeared rather better, but a third convulsion coming on, persuaded me there was no time to be lost. I considered her case as desperate; and notwithstanding the condition of her bowels seemed to forbid the use of Cowitch, and that it was a remedy I had never tried before, I ventured on it, as the last resource.

I mixed the quantity of setæ, scraped from a single pod, in one ounce of very thick honey. Of this, half was given to her at first, in a morning fasting.

The very first dose was attended with the most happy consequences. Upwards of fifty small worms were discharged alive, in the course





course of the day, with a large quantity of mucus.

Towards bed-time, the remainder was given, and in consequence thereof, a few more worms were passed.

But the tension of the abdomen still continuing, though some few of the symptoms were mitigated, I judged it necessary to continue the Cowhage a few days longer, and left directions accordingly. On my return to see her four days after, I was surprised at the alteration I found in her. She was lively, and active --- her pulse was regular, and her belly subsided. The pains had ceased; and, in short, she was in every respect much better; and only complained of weakness. The three or four last doses of Cowhage, which she had taken, produced no effect; I therefore advised, that it should be difcontinued for the present; but recommended that a little should be given once a week, or twice in ten days, for some time afterwards. She continued well

C A S E IV.

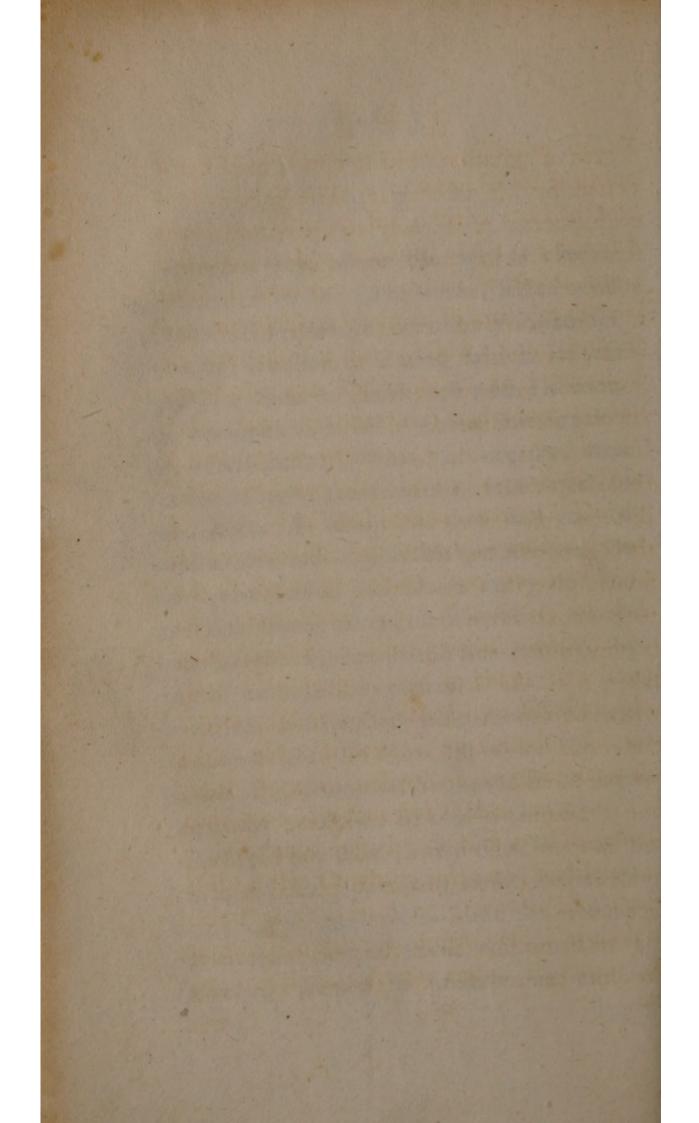
arte of the day, with a large quantity

A negro boy, about the age of eleven, was once in two or three weeks, seized with a kind of sit, which commonly lasted for four or sive hours, during which it was usual for him to shriek out with violence, and continue so to do without interruption for several hours. This, the negroes, who are excessively superstitious, attributed to the effects of obeah, as they call it—or witchcraft; and upon this supposition, the boy grew worse and worse every day, no methods being taken for his relief, except such as the negroes themselves applied, by way of exorcism, or charm.

At last, his fits becoming more frequent, the overseer of the estate, to which the boy belonged, ordered that he should be brought to me the next time he was so seized.

When I faw him, he lay stretched out on his back; his upper and lower extremities being quite motionless---but the abdominal muscles, and all those, concerned in respiration, seemed to undergo an unusual degree

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degree of agitation, and to appear as if convulsed by his efforts in shrieking. His eyes appeared as if ready to start from their sockets, and his pulse was quick, and irregular.

I first ordered a warin bath to be got ready, into which he was to be put, for an hour, and in the mean time, a common clyfter was administered. I also directed a saline draught, with twenty drops of tinctura thebaica, which I attempted to give him, but he spit the greatest part of it out. I then prepared another, but had no occafion to give it, for, after he had been in the bath about three quarters of an hour, he became quiet, and fell asleep. He was then taken out, and laid in a clean, warm bed, where he flept foundly fixteen hours, without once awaking; though in that time feveral attempts were made to rouse him, but to no purpose. His breathing was free and unoppressed, all the while, and his sleep, in all respects, like that of a person in perfect health.

I was at no loss, from the first, to guess at the chief cause of his complaint. His belly

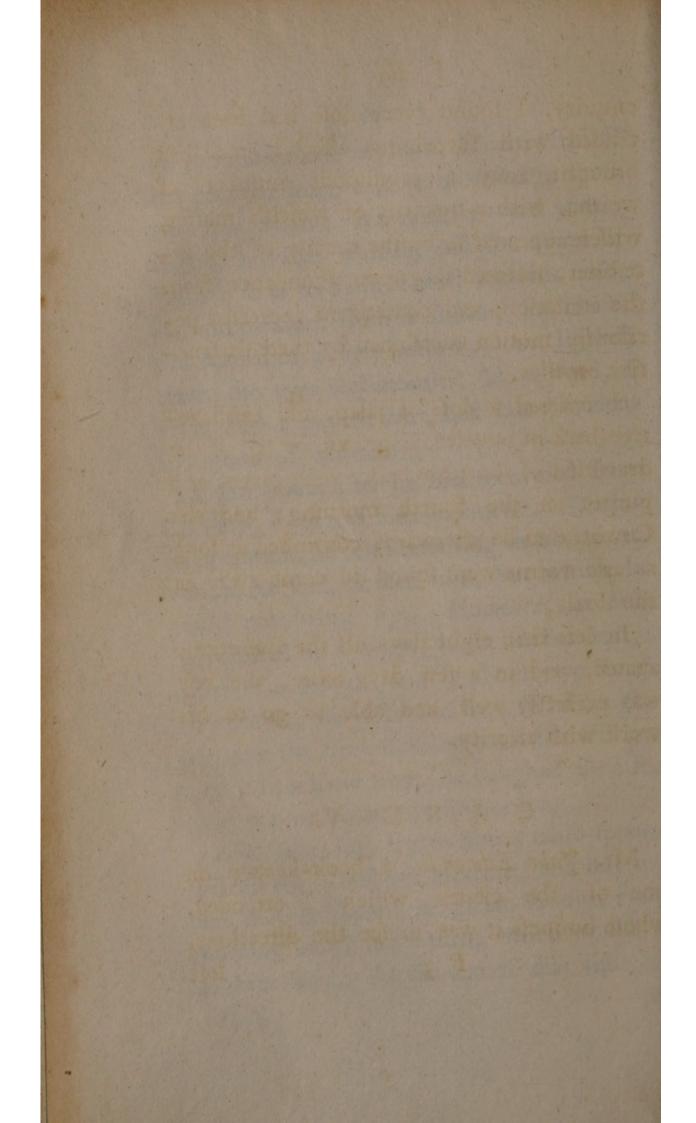
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was prominent and very hard. His eyes had all that peculiar languor to be observed in those who have worms; his nostrils were widely dilated, his lips whitish, and the upper lip swelled, so as to be in contact with his nose; his complexion, from a shining jet black, was turned of a dirty yellow colour, lightest about the eyes and mouth. In a word, I never saw a patient who had more evident symptoms of worms.

A few hours after he had recovered from his fleep, I ordered him an emetic. During its operation, he felt something in his throat, which, he said, tickled him, but which he could not bring up. However, at last, he vomited up a worm, eight inches and a quarter in length, and in about two hours afterwards, was disturbed by a fit of coughing, and the same tickling sensation felt before. In a little time, he coughed up a second worm, about five inches long.

Next morning, I gave him a table-spoonfull of the Cowhage mixture; and left orders that it should be given to him every morning until my return, which would be in three days. At the end of that time, on

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enquiry, I found every dose had been attended with surprizing effects, and had brought away a prodigious number of worms, with a quantity of whitish matter, which appeared to be the mucus of the intestines, secreted in greater abundance from the irritation, and consequent increased peristaltic motion occasioned by these destructive reptiles.

I ordered a dose of jalap, and cabbagetree-bark in powder, a gr. xv. in 3 ij. of the decoction of the same bark, to be given, as a purge, on the fourth morning; and the Cowhage to be afterwards continued as long as any worms were found to come away in the stools.

In less than eight days, all the symptoms abated, and in a few days more, the boy was perfectly well, and able to go to his work with alacrity.

CASE V.

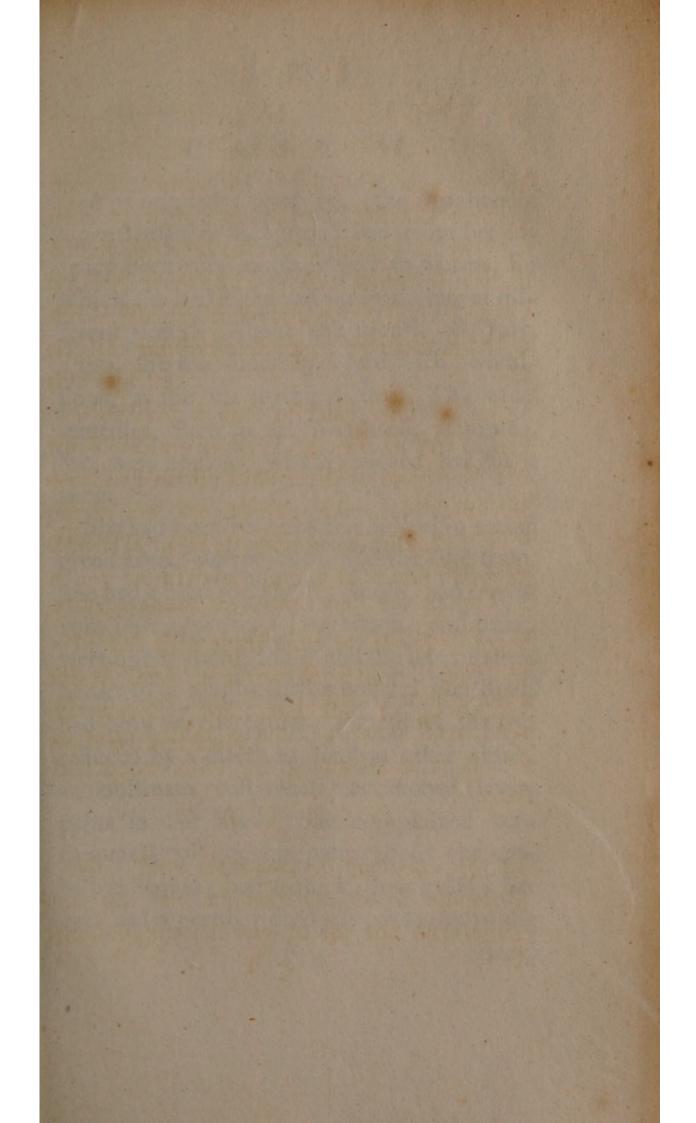
Mr. John Edmonds, a book-keeper on one of the estates which I attended, whose business it was to see the directions,

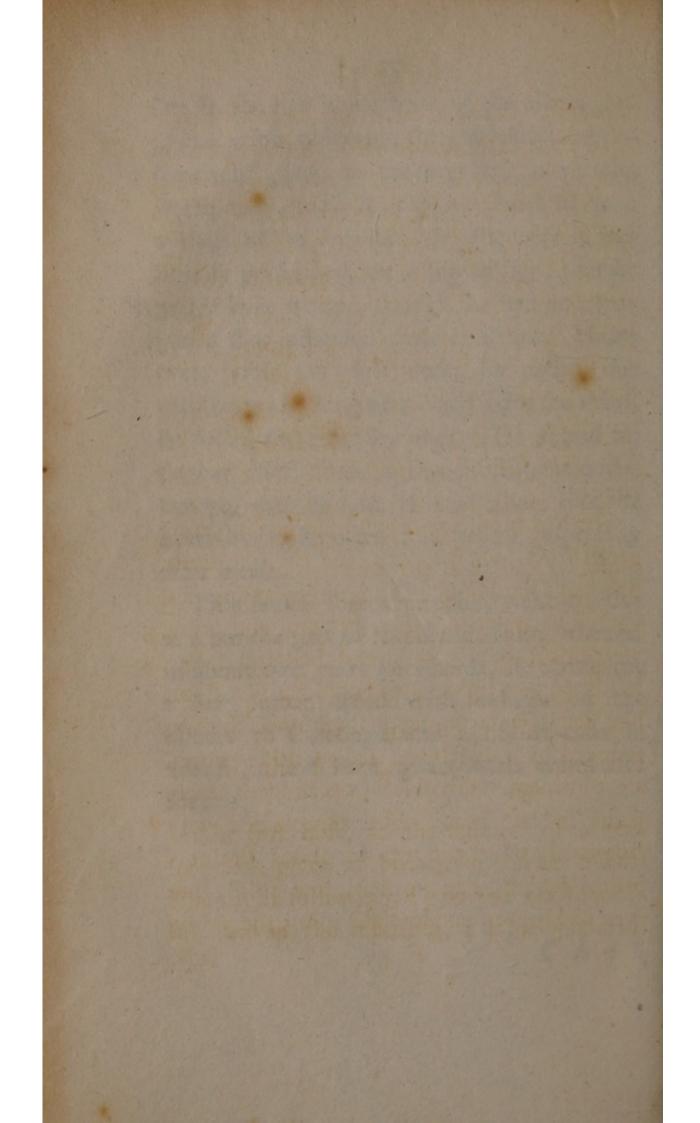
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left in the hot-house book of the estate, put in execution, observing the good essects of the Cowitch, given to the negroes, in various worm cases, took it into his head to take a little of it himself, in the way it was usually prescribed, on a supposition, that he might have worms, though he had no complaint that indicated their existence. However, after the first dose, he passed one very large and long one——and after the third, he passed three smaller ones. He found no farther essect from a few subsequent doses, except, that he said, it eased a pain like the heart-burn, he often selt before, especially after meals.

This person sometime after, went to live at a remote part of the island, from whence, in about two years afterwards, he wrote me a long letter, filled with eulogia on the virtues of Cowhage, and a list of cases in which it had been given with wonderful success.

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C A S E VI.

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A young lady, aged 13, (the daughter of a gentleman in Kingston) had from her infancy been very much subject to worms, for which she had taken various medicines at different times. About the month of July, 1779, she was suddenly seized with convulsions, as she was sitting at tea. The usual remedies, such as sp. hartshorn, as afætida, &c. were applied, which relieved her for a time.

She had been very much indulged in eating green fruit, unripe corn, and the like trash. She had a hard tense belly, cough, and a most voracious appetite. Her breath, and urine, were uncommonly setid, and the latter stained her linen of a light saffron colour. Her stools had been very irregular; sometimes she was reduced by a diarrhea, and at other times, an obstinate costiveness occasioned severe pains in her head. She complained very frequently of griping pains about the umbilical region; had a quick, low pulse; her eyes had a peculiar deadness; but the young

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lady,

lady, instead of being, as is usually the case in complaints of this nature, oppressed with lassitude, and averse from all manner of exercise, was always very lively and alert.

From most of the symptoms, I had no doubt of her disorder proceeding from worms. This, though very plain, was laughed at by the young lady's relations, who declared, that it was impossible she could have worms, as the had for a long time been taking medicines on that account; and, that though subject to them formerly, she had not passed any for a long time. declarations, however, were by no means fufficient to convince me that they were not the cause of her complaints, and with much difficulty I prevailed on the father of the young lady to let her take Cowhage, which perhaps would not have been complied with fo foon, had not another convulfive fit, the following day, threatened her life.

The first dose, to the amount of a teaspoonful, given at bed-time, had no effect. The night following, I gave two tea-spoonsful, and in the morning, a table-spoonful.

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Towards evening, she passed two very large worms. On the morning of the third day, an ounce of castor oil was given, which brought away an incredible number; some alive, others dead. She had no return of her convulsions after the first dose; but I thought it proper to continue the use of the Cowhage a few days longer. In less than a week, its good effects were manifest. Her eyes regained their natural vivacity; her pulse became regular; the hardness and swelling of the belly were lessened, and by degrees entirely disappeared, so that in a short time she regained a perfect state of health.

C A S E VII.

Charles Thompson, a cabin-boy belonging to a ship in the West-India trade, was, soon after her departure from England, for the West-Indies, attacked with violent griping pains in the bowels.——His face and lips were exceeding pale, and he was considerably emaciated; nothing could persuade him to stir out of his hammock, or take any kind

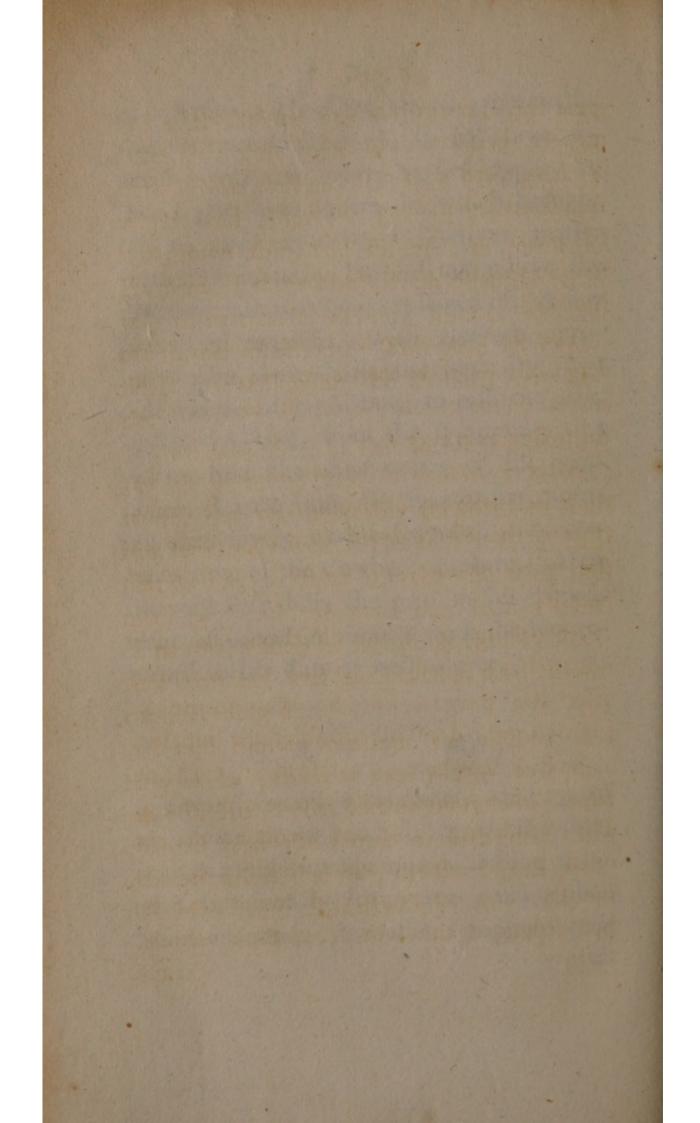
of exercise. He slept almost continually, and eat voraciously.——As he had some severish symptoms when he first applied to me, I gave him an emetic, which brought off a great quantity of bilious matter from his stomach, but did not relieve the gnawing pain that he complained of. A few grains of magnesia, with rhubarb, procured him some stools the next day, but did not at all contribute to ease the pain.

Not doubting, from the symptoms, that worms were the chief causes of his complaint, I gave him, for four or sive mornings successively, a table-spoonful, and sometimes two, of the Cowhage mixture. After the very first dose, the pain in his bowels went off---and in about a week the boy returned to his duty as well as ever.

C A S E VIII.

James Gilmour, a carpenter, aged 27, of an athletic make, and strong constitution, from an excessive and continual itching at his nose, imagined he had worms; and applied to me for relief. His other symptoms were great

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great thirst, feverish heat, and frequent slushings in the face. He had no appetite, and often vomited after eating. He was seldom free from a diarrhæa, and often complained of pains in his bowels and side; his tongue was foul, and he had a fixed pain in his head.

The first evening he came to me, I ordered him a gentle emetic, of vin. ipecacoan and an ounce of ol. ricini, to be taken the following morning.

After I had cleanfed the intestines by these evacuations, I gave him a small quantity of the electuary of Cowhage made in the usual manner, with directions how to take it.

According to these directions, he was not to have taken any, until the morning after the purge; but he was so impatient to get rid of his troublesome inmates, as he said, that he took a dose of it, the same night, and a second, early the next morning. He complained, that the medicine occasioned a very disagreeable tickling in his mouth; and on enquiry, I found that he had separated the setæ from their vehicle,

and after sucking and swallowing the melasses, had spit most part of the Cowhage out.—This electuary had been kept a good while; and from the heat of the weather was grown thin, and disposed to ferment. However, I made him a fresh quantity with very thick treacle, desiring him to observe the former directions. This gave no uneasiness in swallowing, or at least, very little.

I would go to see him. I was afraid he was worse, but was agreeably surprised to find him extremely well. He told me, he had sent to me, to shew me the effects of the medicine, and produced near half a pint of worms, which he had discharged by stool that morning, and had passed as many more the preceding day.

I told him to continue the electuary as long as he perceived any worms to come away in his stools, but no more being discharged after the fourth or fifth dose, he discontinued it, and was, in a short time, perfectly free from all his complaints.

The following Cases, as a farther illustration of the utility and success of the Cowhage, are selected from among a very great number, which have occurred, or been communicated to, the author, since the publication of the first edition of the Treatise.

June 28, 1784. MR.R. watchmaker, No.—, Turnagain-lane, Snowhill, had, for upwards of two years, been much diftressed by an uneasiness and intolerable itching, accompanied frequently with a disagreeable tickling sensation along the course of the rectum, and about the anus. He had also a troublesome itching in his nose, which first gave him a suspicion of his having worms; this was confirmed by his observing great numbers of very small white worms of the ascarides kind, that were discharged from time to time by stool.—His complaints in general were of the class usually denominated NERVOUS; but he had with these, most of the symptoms that indicated worms; such as irregular appetite, cough, sectid breath, grinding of the teeth, gnawing pains in the bowels, &c.

In consequence of his having perused the pamphlet on Cowhage, on its first appearance in the world, he applied to Mr. Murray (bookseller), for my address, and called on me

the next day.

On looking over feveral prescriptions which he had brought with him to shew me, I found he had taken some of the most powerful anthelmintics which either our own, or foreign Pharmacopæias could boast of, by the advice of several

physicians, both in London and on the Continent.

I gave him four ounces of the electuary of Cowhage, prepared in the common way; of which I directed him to take a tea-spoonfull every morning, and every third day half a drachm of rhubarb.—In a few days he had a copious discharge of very small white worms, like ends of white thread, which continued to come away for some days. As he sound so much benefit from the medicine, he requested I would permit him to continue it a sew days longer; I therefore gave him sour ounces more, to be taken as the first: this had no sensible effect;

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nor did the three or four last doses he took, bring away any worms. From every symptom of his complaint ceasing, it may be concluded therefore that there were no more left. As his stomach however was rather weak, I recommended him a course of stomachic bitters in a watery or vinous mentruum; and he shortly afterwards set out for Bath in persect health, having made me a handsome present, as a compensation for the benefit he received from my advice and medicines. *

* This was the first case in which I had an opportunity of ascertaining, to my own satisfaction, the efficacy of the Cowhage, against that species of worm whose seat is in the rectum, viz. the ascarides. Many hundreds of trials have since proved it most unequivocally.

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December 1, 1784. ANNE GREEN, at No. 46, Compton Street, Clerkenwell, aged 30, pale conflitution, and delicate habit, had been, fince the month of August preceding, subject to pains in her limbs, arising from excess of fatigue, having lived as servant in a place, where among other laborious employments, she was obliged to carry two pails of water, several times a day, from a long distance, up an hundred stone stairs—after this labour she was always much spent, and often fainted away. Her sickness began with nausea and want of appetite: to this succeeded entire loss of strength, and numbness down her thighs and legs.

At the time I saw her first, which was on the 6th of November, 1784, she laboured under these complaints—with others, not enumerated: urine very high coloured and turbid, no sediment, but an appearance of grease swimming at the top. Stools regular, face pale and thin, eyes heavy and languid, no sever; pains about the navel, which seemed to get gradually lower towards morning. Twitching pains suddenly coming on at different times of the night, and day, sometimes so acute as to cause her to throw herself across the bed in great agonies, and with violent gestures, which always ended in a fainting sit. Sometimes she felt a painful sensation about the navel, similar, (to use her own expression) "to that of a rat or a mouse gnawing or tearing her."

When the first applied to me, she so misrepresented her case — (probably through ignorance) that I did not treat it as a worm case — Extr. melampodii, with vin. chalybeat. and other powerful deobstruents, proving of no use, I learned, on farther enquiry, that before her present bad state of health she had had a diarrhæa; during the continuance of which she frequently discharged bits of membranes, and particularly several white silaments or substances, which she explained to

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to be and the control of the control The section of the se And any of the Person of the last of the party of Indian story THE THE PARTY OF T be, some like sine cambric threads, all tangled and knotted, and others like melon seeds. I made no doubt of her having worms. This led me to a more accurate enquiry; in the course of which I became gradually acquainted with all the symptoms enumerated in the former part of this history: among the rest she said she often felt a sensation, like a ball in her stomach, which moved as she turned from side to side, or leaned her body forwards or sideways. As I knew this to be one of the symptoms indicating the presence of a tape-worm, I immediately gave her four ounces of the electar. è Stizolobio, to be taken in the usual manner.

In a week her appearance was altered furprizingly for the better; and in another week she was so perfectly well, as to be able to go to the country to service. She was of a very indolent disposition; and I could never prevail on her to examine

whether she passed any worms or not.

Here, therefore, we are certainly at a loss for the only incontestible proof, that this was really a worm case: nevertheless, from the very sudden removal of the symptoms, and rapid recovery, I think there can hardly be a doubt of its being so: nor is it unsair to conjecture, that the Cowhage had the greatest, I may say, the only share (for nothing else was prescribed along with it), in removing the complicated miseries of this woman.

-C-D-C-D-C-D-C-D-

December 27, 1784. Mrs. C. the wife of J. C. gardener at Islington, aged 23, during the last fix months of her second pregnancy, had very bad health; and though not remarkably big-bellied, was prepossessed with an idea that she had twins, from a sensation which she explained to be like that of two distinct bodies, each having a different motion from the other. My first acquaintance with this patient was not until about a week before she was brought to bed, when she came to engage me to attend her: she had a good natural labour; but after I had delivered her she was very importunate that I would not leave her until I should deliver the other child: " she was sure there were two, for she selt the other move:" nor was she freed from her doubts by my declaring, that, after the most careful examination, I could positively assure her there was not another child.

On my way home I endeavoured to account for this extraoradinary fensation. Nothing was ever more clear to me than that there was not another child, and that all relating to the uterus was perfectly safe. From the softness and uniformity of the abdomen after delivery, I could not bring myself to entertain the most distant idea of its being an extra-uterine setus. In short, I could not think of any moving body but a Tape-worm

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that could in this instance be likely to exist. She was assespenden I made my next visit, which was in the evening. The following morning, she said she felt the child (as she called it) very strong: but, on very particular enquiry, I was able to convince her, even from her own description, that these motions which she felt were not like the motions of a child.

I asked her whether she had ever been subject to worms, and the nurse, whether she ground her teeth the last night during sleep; to which the nurse answered, that she never heard any one make so disagreeable, or loud a "gritting" of the teeth in her life before; the patient said she had been subject to worms when a child; satisfied with this account, I told her I would soon ease her of her second child very sately—and sent her sour ounces of the electuary of Cowhage: the third morning after taking it, she discharged a piece of Tape-worm several yards in length, which the nurse kept for me, and which is now in my possession: she continued to discharge pieces of different lengths for a fortnight after; and continued the Cowhage for another fortnight, after the fragments had ceased to come away.

The success of the Cowhage in this instance gave me peculiar pleasure on two accounts; First, it was the FIRST case of TAPE-WORM, in which I had an opportunity of ascertaining its effects from ocular demonstration; Secondly, a proof was afforded, of its safety, though administered in large quan-

tity, even to women in the earliest stages of lying-in.

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March 31, 1785. ELIZ. DOGGETT, No. 2, Unioncourt, Holborn, aged 19, about the latter end of December, 1784, was feized with violent pains in the flomach, with attempts to vomit, and a fensation (to use her own words) as if some live thing wanted to come up. Her complaints were attended also with cough, loss of appetite, and a frequent spitting of black frothy faliva, faintings and cold fweats, coffiveness, swelling and hardness of the belly, and universal lassitude; insomuch that she was obliged to quit her service. From that time her complaints increased, and new ones were added. Sometimes she had no appetite, sometimes would eat greedily .- Her sleep was difturbed with startings and frightful dreams. Her pulse was always quick and feverish, her cough daily grew worse, a troublesome tenesmus, and frequent copious discharges of mucus, and also of a dark yellowish slime, like a heavy solid jelly, reduced her much.

When she lay on her left side, she could hear (as she expressed it) a noise like water pouring out of a bottle, and selt as if something was leaping within her: she described gnawing

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pains in different parts of the intestinal canal, sometimes so violent as to occasion her shrieking out, at other times she en-

joyed eafe for feveral hours.

This was the history of her case at the time she was recommended to me, for a trial of the Cowhage, by Dr. Willan, of Ely-place, Holborn, who did me the honour to inform me, that having no doubt of its being a worm case, he had exhibited freely the pulv. stanni, and several very powerful vermifuges, but without any success, except that, after taking the first dose of calomel, she discharged a piece of a large worm; however she did not pass any more, although the calomel was continued until it slightly affected her mouth. — I found her much emaciated; and unable to leave her bed on account of the very great pain she suffered whenever she sat up, or even attempted to move. Her pulse was regular, but inclined to be quick: the smell of her breath was not disagreeable: in other respects, her symptoms were nearly the same as those which have been described.

I gave her two ounces of the electuary of Cowhage, directing her to take a tea-spoonfull of it at night and in the morning; and also to take a little rhubarb and jalap once in three or four days; the first dose she took at night, March 31st; after which I made the following report:—

April 5th. The patient finds herfelf much better; the pains in her bowels are almost gone, except a slight twitching now and then; sleeps comfortably, and is easier in every respect; but has not passed any worms. Is able to sit up, out of bed.

about the house; says that she finds herself so much better that

the intends looking out for a place next week,

Her mother informs me that on the 7th she had a discharge by stool, of mucus, in which were inveloped innumerable white membranous bodies, which she described to be like narrow ribband, in bits from half an inch to three inches in length — and also, a large solid, knotted mass, that looked as if it was made up of the same materials as the small white bodies. After the girl had discharged this lump, or ball, as she called it, she found instantaneous ease from the switching pain, which until that time had never entirely left her: and she had afterwards not the least return of it. Has not taken the purging powder, as the electuary keeps her body sufficiently open.

I had defired that if any worms were passed, in the stools,

I am happy in having this opportunity of acknowledging my obligations to Dr. Willan, who has recommended the Cowhage in a great variety of worm cases—with the most pleasing consequences.

they might be taken out, washed in water, and kept in falt and water for my inspection: but the good woman not suspecting that these ribband-like appearances could be worms, neglected to preserve them; so that when I came to visit the patient on the 11th, I was disappointed of seeing what had been really discharged.

April 18th. Is perfectly free from any complaint what-

ever: looks rofy and fat, and is gone to fervice.

-C-D-C-D-C-D-

June 29, 1785. ELIZ. BIRCH, No. 2, Little Suttonfreet, Goswell-street, aged three years .- At the time I first saw this child, she appeared in the last stage of a deep consumption, and miserably emaciated. She had some time before that taken much bark, rhubarb, and other medicines, which the parents faid had done her more harm than good; -and finding that the child obtained no relief from any of the medicines which had been prescribed by an eminent, and justly respected physician, they had at length discontinued them, and waited patiently for the diffolution of their child. But happening to read my Treatife on Cowhage, which they met with by accident, they conceived that she had many of the symptoms therein mentioned as indicating worms, and applied to me the next day for my opinion and advice. On hearing the particulars of her complaint, I told the parents very candidly that I had very little hope of their daughter; that though it were true she had many, indeed most, of the symptoms attending worm complaints, fuch as fœtid breath, difficulty of respiration, swelled belly, cough, itching at the nofe, &c. yet that in her case these symptoms were very equivocal, and might all be symptoms of some other That however her complaint might have originally proceeded from worms, I feared in her present situation that she was too far gone to receive much benefit from any medicine, To fay the truth, I spoke as I thought; and imagined her difease to be a tabes mesenterica, rather than a worm-case. However, the parents were fo fanguine in their hopes of the Cowhage, from the account they had read of it, that they earnestly intreated I would try it, if not absolutely improper. I assured them that though I had no great hopes of its doing any good, they might rest satisfied that it would certainly do no harm. gave them one ounce of the electuary prepared as usual, defiring them not to proceed exactly according to the printed directions given with the medicine, as on account of the extreme weakness of the child, I judged an emetic even of the gentlest kind would be more than she was able to bear. The electuary I defired them to give only in the morning; as a purgative, I gave

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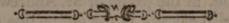
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As foon as the patient had taken the first ounce, her mother came to me for a repetition of the like quantity; as she said she thought the child had received benefit from the first being, if any thing, rather better than worse"; but that she

had not discharged any worms.

I gave her two ounces more of the electuary; and I heard from that time no more of the child, therefore concluded she was dead; until about two or three months after, she accidentally came with her sister on some errand to my house: she was at this time such a sine ruddy healthy looking child, that from mere curiosity I asked whose child she was; —and could hardly believe it, when I was told she was Elizabeth Birch, who was brought to me some months ago, so emaciated and deseased; but who was perfectly recoveren merely by the use of the Cowhage, which had at last brought away very slimy stools; in which, on close inspection, were sound great numbers of white worms, which, from the description, must have been the real ascarides, with sharp heads and tails; some sew alive; but mostly dead—besides these, there came away several small, and one very long worm of the teres kind, and some of the same kind in fragments.



From the JAMAICA GAZETTE.

"THE superior esticacy of the Stizolobium, or Cowhage, over all the other anthelmintics of the shops, proves it to be one of the greatest acquisitions which practical pharmacy has received for many years, and will greatly tend to preserve our infant race from the cruel ravages of intestinal worms, whose destructive action on the human body have so frequently been found productive of the very worst consequences. The safe and esticacious method of administering this inestimable medicine, is more clearly laid down, and the subject more fully discussed, in a pamphlet lately published in London, by Mr. William Chamberlaine, surgeon, late of this island, than by any author who ever went before him. As a proof of its fuperiority, the following well authenticated relation of a case is laid before the public:—

"A white child about two years of age was regularly at"tacked every day about twelve o'clock by a strong fever: its
"visage became of a greenish hue, and frequent prickings at
"the nose and navel, added to a voracious appetite indicated
"the disease to arise from worms: the common methods of the
strong were prescribed in vain. The child grew worse, when

the Cowhage was given, and repeated on the following day;
and on the third, the castor oil, which in a sew hours had the
desired essect, bringing away with it upwards of three thoufand worms of the ascarides kind. These destructive reptiles
continued to be voided in large clusters until within these sew
days, when one of the teres kind, of a most enormous size,
came away, and the child now is perfectly recovered.

JAMAICA GAZETTE, Kingston, Jan. 13, 1787.

"Two Tape-worms of an incredible length were voided from a child of fifteen months old a few days ago, one per anum, the other through the mouth in consequence of the ex- hibition of that powerful remedy the Cowhage. The child was so emaciated as to exhibit the appearance of a skeleton, more than a living subject: and what is most remarkable, those destructive enemies to the human race had eluded the other anthelmintics commonly used in the shops, which had been administered for a length of time, and produced little of no effect."

JAMAICA GAZETTE, April 1816, 1787.

"The Stizolobium, or Cowhage, has lately been admini"ftered with the most happy success at the mountain of William
"Shackerley, Esq. in the parish of St. Andrew; and, as a proof
of its unparalleled efficacy in the destruction of worms, and at
the same time its innocence, it was given in very large doses
to several negro children who were known to have worms,
with the usual good consequences, bringing away variety of
worms from each; and though made very free with, not the
least inconvenience occurred to any who had taken it. It
was also given to several negro children who were not sufpected to have worms; but to whom, though in perfect health,
the common vermifuge medicines of the shops had been frequently given, by way of preventive. From most of these it
brought away worms; and of the invalids, many who were
extremely ill are now restored to perfect health—thro' it."

JAMAICA GAZETTE, May 26, 1787.

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May 7, 1787. I was favoured with a line from Dr. Hamilton, of Old Broad-street, Physician to the London hospital and Surrey dispensary, requesting that I would supply with the preparation of Cowhage, Mrs. G—, of twenty-five years of age, who had symptoms of a Tape-worm. She had by his prescription taken small doses of calomel for some time, and purges of jalap, which last produced such uneasiness in her bowels as made Dr. Hamilton wish to try whether the Cowhage might not prove more efficacious, and less irritating: this proved completely

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completely to be the case; for, not long after, she informed Dr. Hamilton that she had not continued the use of the medicine many days, when she passed several portions of a Tape-worm. and lastly, the remainder, all at once, which she represented to have been sufficient to fill a half-pint mug.

Copy of a letter from Mr. PHILIP WERNER, late Surgeon of his Majesty's Ship Brilliant, and now Surgeon to the British factory at Algiers.

" To Mr. CHAMBERLAINE.

Algiers, September 3d, 1789.

" DEAR SIR,

"IT was late in August, 1788, when I returned to Algiers " with your truly valuable present of the Cowhage, which you " favoured me with before my departure from London. Opportunities for trying the excellence of this medicine offered themselves soon, as worm complaints are very frequent in " this part of the world, principally owing to the half baked " bread and other stiff, heavy, unfermented indigestible fari-" nacea, under the names of cuscusu, pilau, &c. which consti-" tute the greatest part of the diet of the Moors, together with of great quantities of prickly pears, musk and water-melons, " cucumbers, unripe apples, pears, and variety of other fruits.

" Soon after my arrival, I was fent for to fee Mimon Ben " Bron, who, in the superstitious language of the place, was " faid to be possessed by the devil. He was about 25 years of " age; much emaciated, of a pale earth-coloured countenance, " a big tense belly, fore when touched. Pulse quick, irregular. " contracted. Grinds his teeth much, and starts frequently in " his fleep; which is feldom quiet or refreshing; appetite irre-" gular, fometimes voracious; and at other times having a total " difgust to solids: but always thirsty. Stools irregular, being " fometimes costive; at other times having a diarrhoea; with " constant tenesmus in either case.

" I found him in a violent paroxylm attended with a con-" flant and ineffectual reaching.—By means of some affishance " I, with great difficulty, obtained an opportunity of looking " into the patient's mouth, when I perceived the head of a " lumbricus winding and twisting himself about. I laid hold of " it with a pair of forceps, guarded with a bit of rag to pre-" vent the worm from flipping from me, and pulled it out " whole. The fit went off foon after: I was told, on enquiry, that the patient had been subject to these paroxysms at irre-

gular times for upwards of twelve months.

"As he had been costive for 3 days, I ordered that he should take a common purging mixture, and an opiate at night.

"On the following morning I directed him to take a tablefpoonfull of the Cowhage mixture, or electuary, prepared in
the manner you have directed it; and as no effects were produced, nor any stools on that day, another table-spoonfull was
taken at bed-time. The patient had passed the day, and
fore-part of the night very quiet, but towards morning was
tormented very much with pinchings and excruciating pains
in different parts of the abdomen, from which he was relieved
by a copious stool, with a great many worms of the lumbricus
kind. I ordered the Cowhage to be continued in the quantity of a table-spoonfull every morning as long as any worms
were perceived coming away; interposing every fourth day
a dose of jalap with calomel. From that time he had not any
more sits, and was mending in health and strength daily."

" Sidi Mohammet Ben Haffanagee complained to me that he had been subject to worms many years: that he had fuf-" fered much in confequence of his complaint; and that during 46 all that time he had taken many remedies for it, some of 66 which had expelled a worm or two, now and then, which es gave him temporary, but no permanent relief. But that for the last fix months he had not passed any worms in spite of "mercurials and every other remedy, and of course was now. worse than ever. He is now frequently troubled with violent gnawing pains in different parts of his belly, has almost always a difagreeable taste in his mouth, little or no appetite, reftleffness, and starting in his fleep; and is subject to me-" lancholy. I ordered him an emetic, and afterwards a purgative of jalap and calomel (which operated well, but brought off no worms) in order to clear the way for the Cowhage; of the mixture of which I ordered him to take a large table-" fpoonful every morning. After the 3d dofe I repeated the " jalap and calomel, and he passed several lumbrici of the largest kind I ever had feen. I defired the Cowhage electuary to be continued, and he passed some worms with every stool for feveral days more. Corroborants were afterwards administered, and he foon recovered his health and spirits.

"Seeing the good effects of that medicine upon himself, he asked my advice whether he might give some of the same to his children, who were also great sufferers from worms, and laboured under the usual complaints of tumid abdomen, pale face, irregular appetite, &c. &c. I accordingly gave him a pot of the electuary for his children, to be taken as usual, and they passed a great many worms after it; and by perseverance in it for a very sew days, all their bad symptoms went off; the same there expressed himself quite enchanted at the excellence of that miraculous medicine, as he called it." "Hagdi

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Hadgi Haffan came to me to alk for a remedy to cure the cough of a child of his (a daughter between five and fix vears of age) to which she had been subject more or less for " upwards of a year and a half, attended fometimes with vomiting. By his defire I accompanied him to his house, and found the girl picking her nose, which was quite sore; the " upper lip swelled, the face of a livid colour, the eyes funk, a " flinking breath the belly big and tense, and fore to the touch. " I was also told that she was subject to frequent starting and " grinding her teeth, as also frequent fits of laughing and crying, during her fleep. To my enquiries whether she had " ever passed any worms, I could obtain no satisfactory answer. " I ordered, without hefitation, a pot of the Cowhage electuary of which a tea-spoonfull was to be taken in the morning, and " also at bed time; on the third day from the day she began " the medicine she passed a great many ascarides; and con-" tinued fo to do for feveral days; I ordered the medicine to " be continued as long as there wereany worms passed, and for " fome few days afterwards, interposing a gentle purge occa-" fionally, with tonics towards the conclusion. The cough left " her, and she recovered completely in a month's time, to the " furprize of all the family."

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Extract of another letter from Mr. WERNER, Surgeon at Algiers. to Mr. CHAMBERLAINE.

Algiers, November 7th, 1789.

London was mentioning to me the case of Mr. F—, of Bedford-row, aged 28, who, after every worm remedy in his
knowledge had been tried in vain during the space of three
years, was rapidly hastening to the grave. I mentioned to
him the Cowhage, and, at his request, gave him a direction
to your house: he afterwards informed me by letter, that
before his patient had taken a four-ounce pot of the electuary,
prepared by you, he voided, at different times, pieces of a
Tape-worm from five to seven yards in length; and in a very
fhort time recovered his health completely.

"Mr. Wollin, in the fame letter, mentions his having given the Cowhage to Mr. ———, of St. James's-market, aged 30, who had suffered in a severe manner for a long time, and had had the advice of several of the most eminent physicians in and about London, and had persevered with uncommon diligence in the medicines prescribed for him by each, but without any benefit whatsoever. Mr. Wollin gave

him a four-ounce pot of your preparation, which brought away several short pieces of a Tape-worm, which Mr. Wolling saw. His patient told him that one morning he had passed a longer piece of about sifteen yards, which the maid had inadvertently thrown away."*

* Mr. Wollin was fo obliging as to call on me fome time ago, and confirmed the particulars mentioned in Mr. Werner's letter. W. C.

A case communicated in a letter from Mrs. ALICIA SHEPPARD, No. 1, Mount Lodge, Broad Stone, Dublin.

" To Mr. CHAMBERLAINE.

July 12, 1791. " * * * I HAD, in the course of a year and a half, often met with a Mr. Faulkner, whose wife I repeatedly heard was in a bad state of health; at length, there were no hopes of her life. In February last I was surprized by a visit from 4 Mr. Faulkner, who, after apologizing for his intrusion, told " me the purport of his vifit was, that having read your trea-"tife on Cowhage and being very defirous of trying it with his wife, he had taken the liberty of waiting on me, in hopes of hearing where it might be had; he supposing, from my be-44 ing acquainted with the author, it was possible I might be able to inform him: that before he ventured to trouble me " he had fought it in every druggist's and apothecary's shop 44 in Dublin, but in vain. I had a little by me, the remainder of some that you gave me: I told him I would divide with him the small remainder I had left; we mixed the Cowhage in some honey, and he went away quite happy. I heard no more of Mrs. Faulkner for a long time, and concluded the was dead, as she had been in a deep consumption for a year and a half. I imagined too, fometimes, that perhaps the "Cowhage might have been improper, and accelerated her 46 death; so feared to ask-but this surmise I kept to myself. "One evening, the latter end of April, Mr. Faulkner " entered, leading in a very beautiful young lady, and addressed me thus: ' Madam, I have brought this lady to re-" turn you her thanks for restoring her to good health.'-" Indeed, Madam (rejoined the lady) I am under the highest " obligations to you; for I have been for near two years in " the most deplorable state; but I am now in the most perfect " health, for which I am indebted folely to the Cowhage." "In the course of conversation she told me she had taken it but three times when she began to mend faster than she " thought it possible - she passed numerous worms and great 66 abundance

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abundance of the skins of others: I saw her yesterday; she still continues in good health. She told me at our last interview, that she gave a little of the Cowhage to a poor woman's child that was reduced to a skeleton, and confined to its bed; that the boy got well almost immediately, and is now in good health, and playing about the street."

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Communicated by Mr. JAMES CREW, my Affiftant.

"IN June 1791, a young man, aged about nineteen, ap-66 plied to me in your absence for some medicine, as a palliative (a cure he faid he did not expect) for a very difagreeable 46 complaint, which he was constantly troubled with. He comof plained of, at times, a very disagreeable sensation, as if some . extraneous body was moving about in his throat; at others 66 of a flight titillation, as if tickled by a feather, with a con-66 stant and almost incessant hacking cough, which had troubled " him for near nine years, which fymptoms were always in-66 creafed by exercise; so that at that time he made applica-"tion, he faid he was obliged when walking, especially if fast, " or if running, to stop every 20 or 30 yards to remove 66 fomething in his throat by feveral times hacking or attempting to cough, when he would find himself for a little time " easy. He told me he had been subject to worms from his 66 infancy, and had taken all the noted worm-cakes, &c. of 46 any repute with little relief; his appetite was always good, 66 body regular, and, in other respects, in very good health. " Not doubting but his complaints proceeded from worms, I " gave him a four ounce pot of the Cowhage electuary, which he took very regularly; but not finding much relief, I gave " him a second, and also a third. At the expiration of three " or four days, after taking the third pot, he found his com-66 plaints, he faid, almost suddenly leave him, and could then " jump and run about with pleasure, without the fear of being " attacked with any of his usual symptoms. I recommended " him a cathartic after taking his last dose, but he seeming ra-"ther to decline, I did not urge it, as he was freed from all 66 his complaints, and, at that time, perfectly well."

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Copy of a letter from the Rev. P. B. BRODIE, rector of Winterflow, near Salifbury.

"To Mr. CHAMBERLAINE.

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"A YOUNG gentleman in the county of Wilts, at the age of ten years, had manifest and violent symptoms of worms.

worms. We tried several remedies, but had the missoriume to see his body debilitated, his sight very much injured, and the vital functions in general much impaired. His case was communicated to Dr. Squire,* who prescribed, and was kind enough to take the trouble of sending to us your medicine; we administered it according to your directions, with a pre-

"After some days, he evacuated one worm about three er inches long; and after repeated doses, five more; but besides of the emetic, we had given him some physic. After this, we " paufed a while, and foon after the re-commencement of our operations, he produced in one day no less than fixty worms (teretes), of different lengths, from three to fixteen or eighteen inches, all alive, and without any flime. We continued our or mode of proceeding, but by some circumstances we were led. to imagine that the action of digging affifted our endeavours; " we gave the experiment a fair trial, and found that we were or more successful when he used that exercise, than when he " omitted it. Upon the whole, in the course of taking three or four pots of your medicine he evacuated one hundred and fixtyfive worms, between the fizes above mentioned, but most of them above the average fize, and those all alive, and the or greater part of them with the spiculæ of the Cowhage sticking. in them; besides a great many dead ones.

"We flattered ourselves he was quite relieved; but found it requisite within the year to have recourse to you again; he evacuated twenty worms, and has been perfectly well ever fince. This is, as far as I recollect, an exact and true account, and if it can serve the public or you to insert it in the next edition of your book, you are welcome to it for that

" purpose, and to the name also of

"Your most humble fervant,
"P. B. BRODIE,

July 23, 1792.

" Rector of Winterflow, near Salifbury."

The young gentleman whose case has been communicated, in the foregoing letter, lately did me the honour to call at my house, and gave me a more particular account of the symptoms. He was first, he said, attacked with a weakness in his eyes and a spasmodic affection similar to chorea viti, in the right arm, which was also much swelled. To these succeeded epileptic

paroxyims,

I take this opportunity of acknowledging the many obligations I owe to Dr. Squire, of Nassau-street, Soho, as well for his much-valued friendship, manifested on all occasions, as for his good offices, by means of which I have been favoured with the particulars of the case here related: This gentleman has contributed greatly to raise the reputation of the Cowhage, by his recommendations of it in several instances, where the success attending its exhibition, has, in almost every one, assorbed the highest satisfaction both to the prescriber and the patients.

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paroxysms, attacking irregularly, and increasing, in violence and frequency, for upwards of a year and a half. In these sits, of whose approach he had no warning, he would suddenly sall down, and continue, berest of sense, in strong convulsions, for upwards of an hour. The belly was sometimes contracted or drawn in towards the spine: at other times much swelled, with great tension;—irregular indurations or lumps appeared on the surface of the abdomen; and a most excruciating pain in the stomach accompanied the other symptoms, throughout the whole of this tedious disorder.

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July 28, 1792. HANNAH BESTON, Pool's-buildings, Gray's inn-lane, aged 25, had been from the violence of feveral bad fymptoms caused by ascarides, and the tænia cucurbitina (the presence of both which were ascertained by her discharging at different times several of the former, alive, and portions of the latter), reduced to fo debilitated a state as rendered her at last totally incapable of following her occupation (that of a laundrefs.) She had applied, at various times, to three different medical gentlemen, and afterwards to a difpenfary, where every powerful anthelmintic had for a long time been tried under the direction of a very judicious and humane physician, without producing any good effect, or the least diminution of her torments. Difappointed of finding the wished-for relief, she determined to feek it elsewhere, and applied foon afterwards to my friend Dr. Willan, who, on enquiring into, and hearing the particulars of her case, gave her a direction to my house, with a line, requesting I would try the Cowhage with her. She perfevered in taking it for near a fortnight before any material alteration was perceived: I defired her to take double her usual quantity. Ten days afterwards the called to inform me, that the had paffed a most incredible number of both forts; and one day in particular, they came away fo fast, almost every quarter of an hour, without stools, as to oblige her to defist from any fort of bufiness whatever, and prevented her even from walking out of her apartment.

August 6th. She came to my house with expressions of joy and gratitude, in order to shew me a Tape-worm which she had discharged that morning: it was true Tania Cucurbitina, measuring between three and sour yards, and was alive. She said it was but a very small part of what she had passed the same morning: that the rest came away mostly in a lump, and that her reason for bringing no more, was because she thought a

small piece of it would be sufficient for me to look at.

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From that time all her fymptoms very much decreased, and, after a few gende purges, her complaints entirely left her:

The last time I saw her, she said her health was perfectly re-established; she had resumed her usual occupation, and was strong and hearty.

AMONG the many derangements which take place in the human frame from a superabundance of worms, affections of the eyes are not unfrequent. Very obstinate ophthalmias often arise from this cause alone. To that justly eminent and respectable Surgeon, Mr. Wathen, of Walbrook, I am indebted

for much information on that subject.

A young lady of Cambridgeshire was under that gentleman's care, on account of an ophthalmia, which having obstinately resisted every mode of treatment, Mr. Wathen conceived that the complaint might originate from worms, and recommended to the father of the young lady a trial of my preparation of Cowhage, for his daughter. It was attended with such happy success, that he recommended it very strongly to be tried in the case of

Miss H——, daughter of J. H. esq. who was some time afterwards under Mr. Wathen's care for a similar complaint.—
In a very short time after the young lady had began a course of the medicine, I had the pleasure of receiving a line from Mrs. H——, informing me, that "her daughter's eyes were much better, and that the Cowhage had brought away a great number of ascarides, all alive."

The fanction and patronage given to this medicine by general elemen of known and acknowledged eminence in the medical world, have been the means of introducing it much into practice.—To Mr. Wathen I am highly obliged for his recommendations of its use in many cases. To enumerate but a sew of them would exceed the bounds I have prescribed to myself; suffice it to say, the result of most of the trials have proved favourable to the reputation of the Medicine, satisfactory to the recommender; and, to myself productive not only of much mental gratification, but several very genteel presents—in a word, both PLEASURE and PROFIT.

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