

An address to the public, on a subject of the utmost importance to health : highly necessary to be read by all those who are, or may be afflicted with a certain disease. To which is subjoined, An essay on the heat of the blood, and the motions of animals and vegetables / By J. Elliot.

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A N
A D D R E S S
T O T H E
P U B L I C,

On a Subject of the utmost Importance to

H E A L T H ;

Highly necessary to be read by all those who are, or may be afflicted

W I T H

A certain D I S E A S E :

To which is subjoined,

A N E S S A Y

On the H E A T of the B L O O D,

A N D T H E M O T I O N S O F

A N I M A L S A N D V E G E T A B L E S,

By J. ELLIOT, APOTHECARY,

AUTHOR of the *Philosophical Observations, &c.*

L O N D O N :

Printed for, and Sold by Messrs. FIELDING and WALKER,
Bookellers, in Paternoster-Row ; and may be had of
the AUTHOR, No. 7, the East-side of Carnaby-Market.

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P R E F A C E.

MY design in the following little Essay, is not to offer a treatise on the disorder, which is the subject of it, but to warn the unwary and inexperienced, from the dangers to which they are liable to be exposed, from the knavery of empyric's; and, to which I am induced by several melancholly cases which have lately fallen under my observation. The discerning reader will perceive that
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an attempt of this kind will be more useful than even a dissertation on the disease itself; since those who are incapable of judging of the merits of a professional work, may yet be made sensible of the dangerous consequences of indiscriminate quackery. I do not pretend even to offer any thing new; for the subject has frequently been treated by others, in a more ample manner than I have either done, or designed, which probably is the reason that their well intended labours have never been generally known. It appeared to me that a very short address, urged in an earnest manner, setting the matter in a strong light,

light, and sold at an easy price, would be the most likely to be attended to by the class of readers to whom it is addressed, and therefore bid fairest to answer the end proposed. If it has that effect I shall think myself happy, as I shall have been the means of saving many from some of the greatest miseries which the human frame is subject to, as well as from untimely death.

J. ELLIOT,

No. 7, *Carnaby-Market* ;
March 25, 1780.

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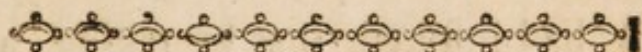


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T O T H E

P U B L I C;



S E C T I O N 1st.

HERE are laws in force sufficient
T to prevent persons not quali-
fied, from vending *quack medi-*
cines; but as those whose province
it is, do not think proper to suppress that alarm-
ing evil, it becomes the duty of every individual,
who wishes well to mankind, to check the mis-
chiefs arising from it as much as in his power.

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The ill consequences of this practice, especially in the instances alluded to in the title page, are not sufficiently known. And it is particularly to be lamented, that circumstances concur to render patients in this line the victims of empyrical knavery and ignorance, beyond any others.

When a person is unhappily infected with this disease, especially for the first time, bashfulness, and a false shame, prevents him from applying to any gentleman of his acquaintance, or even to any other practitioner in form. Being inexperienced in these matters, and a stranger to the dreadful consequences of improper treatment in this destructive disease, he flatters himself with the delusive hope, which some empyrical hand bill had inspired, that by taking a bottle or two of such a medicine, he shall be cured, without exposing his weakness to any one. He takes the medicine.—His disorder instead of being cured, increases; his constitution is impaired; his emaciated appearance at length betrays him to his acquaintance, he is obliged to apply to some regular practitioner, and the cure, which at first might have been effected in a few weeks, cannot now be wrought in as many months, perhaps not perfectly, at all. The consequences are still more dreadful with respect

respect to the other, and more amiable sex, whose modesty, tho' they may have been seduced and injured by the villainous arts of insidious lovers, frequently rather suffers them to fall silent victims to the evil, than expose themselves to the still greater distress of applying for a cure.

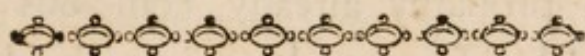
The baits by which the unwary are chiefly taken, are the cures advertised to have been performed by the medicines proposed as infallible remedies in these complaints. But we shall find on examination, that even in the advertisements for those medicines which have the greatest sale, a new cure does not occur three times in a whole year; and yet a cure seldom escapes the industry of the proprietors, and those agents whose business and interest it is, by bribes, or otherwise, to obtain an account of them. These cures are published with every possible exaggeration. Most of the real ones we find happened under the immediate inspection and treatment of the proprietors; and in the performance of which a variety of other means besides the advertised remedy were doubtless employed. But this is viewing the case on the most favourable side; for it is well known to individuals, tho' unhappily, not to the public at large, that by far the greatest part of these cures never happened; but are

inserted as mere puffs, the truth or falshood of which the inventors are morally certain will never be enquired into ; or if they are, the departure of the supposed patient from his former place of abode, or other similar evasion, generally satisfies the enquirer ; if these excuses fail, there are not wanting abandoned persons in their pay to pass for the pretended subjects of some of these fictitious cures, who are properly instructed to answer the questions of the most scrupulous enquirer.

But supposing all the cures advertised to be real, which yet seldom *equals*, much less *exceeds* the small number above-mentioned, we are to reflect that in the course of a year, the time in which those cures are supposed to have happened, many thousands of the medicine had been taken. The cases in which it does no good we are not informed of; and *shame* will, on a double account, prevent the unhappy deluded patients from communicating to the public the numerous instances wherein it does harm. We may fairly conclude therefore, that it is at least *a thousand to one* whether the medicine will perform a cure. From the cases which have happened under my own inspection, I conclude that it is almost as great an odds whether it will not do harm. It is well known

known that if a medicine of any considerable efficacy does not do good, it must be hurtful.

For this single reason therefore one would imagine that no person of common sense would risk the taking a medicine where the chance of receiving benefit is so small, and the hazard of injury so great ; or if through want of reflection, they were deluded into this idea before, yet now that the case is fairly stated to them they would be inexcusable if they persisted in the fatal deceit, and may blame themselves, rather than the proprietors of the medicines, for the ill-consequences that may follow.



SECTION 2d.

Those who have any acquaintance with the art of physic know that it is impossible for any one medicine to be contrived that shall suit every constitution even in the same stage of this disorder,* and none but an illiterate empiric will pretend to it. But in different stages, even in the same patient, not only a different, but even a

* This may be equally applied to quack remedies for all other complaints.

direct

direct contrary treatment is sometimes required. The remedies must be varied according to the symptoms that arise.

A medicine, for example, that would be very proper for a relaxation of the parts would greatly aggravate the symptoms of an inflammation. Yet in the news papers, and hand bills, medicines are daily offered to the public, which the authors have the shameless, I should rather say *wicked* effrontery to dare to assure us are absolute *specifics* in every stage of the disorder, and in every constitution. To attempt to reason with such men would be vain. For if we could even convince them of their error, (which however some of them are probably already conscious of,) yet that would be of no avail, as not the *health* but the *money* of the credulous purchasers of their nostrums is their object. If therefore we acquit them of ignorance, we must convict them of what is much worse, *direct and pre-meditated villainy*. To the patient himself however I would beg to submit, “*whether he would attempt to increase and diminish a FIRE by the same means?*” *Would he not employ Fuel in one case, and Water in the other?* To attempt to diminish a flame by means of oil, or to encrease it by pouring on water, would be just as absurd as to treat the different

different symptoms of the disease in question with the same remedy.

The deplorable, and even shocking cases of some unhappy patients who have applied to me after taking the Friars, and Jesuits Drops, and other similar remedies, in the first stage of the disease, first induced me to publish an address of this nature; and I should have considered myself as having been guilty of neglecting a very important duty to the public, had I remained silent on that point. Were it consistent either with decency, or honour, to publish the accounts of those cases, and the names of the parties, the relation would excite as great a degree of horror in the breast of the reader as the cases themselves did in mine. And at the melancholly recollection of them I cannot but again express my astonishment at the remissness of those whose proper business it is, in not putting a stop to so alarming an evil as that before-mentioned, by means of which the constitutions of the flower of our youths are ruined even before their prime. I am wholly unknown to the proprietors of the medicines alluded to, and therefore cannot be supposed to write from motives of personal resentment. Were they even my brothers, justice would oblige me to treat them in the same manner. And it is
 necessary

necessary for the public to be informed, that having procured a sufficient quantity of each of the medicines above spoken of, I examined them myself, and obtained the favour of several of the faculty to examine them likewise. We do the proprietors the justice to acknowledge that for gleans, ulcers, and mere relaxations, or weakneſſes *remaining after the diſorder*, thoſe medicines would, in moſt caſes, be very proper. *But if, on the contrary, they are taken BEFORE THE INFECTION IS PERFECTLY SUBDUED, they will infallibly do miſchief.*

The patients of whom I ſpoke above had all of them taken thoſe medicines in recent caſes. As they are powerful ſtrengtheners they preſently ſtopt the diſcharge, and the patients thought themſelves cured. But inſtead of a cure, the infection, which ought to have been drained off by the diſcharge, was thrown back into the blood ; and thus what was at firſt but a *ſimple Gonorrhœa*, broke out ſoon after with all the dreadful ſymptoms of a *confirmed Lues*. And here I cannot but remark, that thoſe who are unacquainted with the nature of this diſeaſe, and of impatient tempers, think much if a cure is not performed in a few days, ſince every quack bill promiſes as much, and even ſpeaks of it as a thing very eaſy to be accomplished,

accomplished, *and surely, (say they) a regular practitioner ought to be able to do it at least as soon as an empiric.* They very unhappily imagine that if the discharge be stopped, the disorder is cured. And I am sorry to observe that there are not wanting those who villainously take advantage of this prejudice; and by means of powerful astringents and corroborants, suddenly check the Gonorrhæa, so that the deluded and inexperienced patient thinks himself well. As the bad consequences of this treatment do not immediately appear, nineteen young men in twenty will have had some fresh connexion before that event takes place: so that when it at length happens, they do not suspect it to be the effect of the rascally treatment of the doctor, but conclude that it is the consequence of the recent connexion. The doctor's reputation is saved; and the credulous patient, confirmed in the opinion of his skill, applies to him to compleat the ruin of his constitution, already so fatally begun.

It appears by the concurrent testimony of all judicious practitioners who have written upon the subject, that the running ought not by any means to be check'd while any signs of infection remain, as a confirmed *Lues* will most certainly be the consequence. For this reason, not only

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the medicines before spoken of, but all others of a similar kind, whether they are to be taken internally, or used as injections, in this state of the disease, should be studiously avoided. It may probably be asked, "what medicines should be given?" My answer is, that it was not my intention to write on the treatment of the disease, but to caution the unwary against the use of *improper remedies*.—That directions for treating this malady, however clearly laid down, would be more likely to be productive of bad consequences than otherwise, in the hands of those to whom this paper is addressed; as, for want of experience, it would scarce be possible for such to make the proper use of them. For the disorder in its different stages, and in different constitutions even in the same stage, appears under so great a variety of forms, and require such different methods of treatment, that those only who have long made it their study and practice, can be proper judges of it. Were I therefore to write directions for the cure of the disease, it would be addressed, not to the *patient*, but to the *practitioner*; and perhaps it may not be deemed presumption if I mention that I have such a work in view.

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The best and most friendly advice that can be given to the patient, is not to think of curing himself, whether by following the directions given in medical treatises, or otherwise ; but least of all by *quack medicines*. On the contrary let him nobly endeavour to surmount a false shame, which would be of the most fatal consequence to him, and immediately reveal his case, in person, or at least by letter, to some regular practitioner of known integrity and skill in his profession. His constitution, and health will then be preserved ; his failing remain a secret ; and his complaint, be cured at perhaps a less expence than even a single packet of some of those medicines which he could only take to his destruction.



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By the same Author.

A N



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E S S A Y

ON THE

HEAT OF THE BLOOD,

AND THE MOTIONS OF

ANIMALS AND VEGETABLES.

 N a book which I lately published,
I intitled *Philosophical Observations*,
&c. I advanced a proposition. "that
the vital motions of the system de-
pend on the communication of phlogiston to the
blood,"

blood," and endeavoured to make it appear that " for a nerve to cause the action of a moving fibre, it is necessary that the nerve should impart phlogiston, either immediately, or mediately, to the blood flowing through, or by, that fibre."

I applied this principle to the *voluntary*, as well as to the *vital* or *involuntary* motions of the body.

The nerves may be divided into three classes, 1, those which serve for sensation. 2. Those which minister to voluntary motion. And 3, Those on which the vital or involuntary motions depend.

During the time of sleep, the heat of the body is as great or very nearly so, as in waking; tho' the nerves serving for sensation, and voluntary motion, are then inactive. The like may be observed of an hysteric, or apoplectic fit, &c. and yet the heat of the body also depends on the communicating of phlogiston to the blood, as I have endeavoured to make appear, and as the ingenious Mr. Crawford, has more fully shewn.

The heat of the blood therefore depends on those nerves, or on the action of those fibres which
serve

serve for the *vital* or *involuntary* motions of the body.

In violent exercise however when the voluntary muscles act powerfully, the heat of the blood is encreased. The reason of which is, that its motion being quicken'd, its stimulus on, or action against the involuntary parts is greater; so that more blood is phlogistified by these fibres than usual, their action being encreased, and therefore more heat is generated.

We have no reason for supposing but that the motions of the voluntary and involuntary muscles depend on the same principle; and the like may be observed of the muscles of hot and cold animals.

But there is a great variety with respect to *heat*, which seem to proceed from the following causes.

Case 1. When phlogiston is communicated to the blood by means of nerves serving for *vital* or *involuntary* motion the fire extricated from the blood is absorbed by the parts, furnishing the phlogiston *only in part*.

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Case 2. When phlogiston is communicated to the blood by means of the nerves serving for *voluntary* motion, the fire extricated is either *wholly*, or *very nearly* absorbed by the parts furnishing the phlogiston. They may even have a power of absorbing *more fire* than is extricated from the blood. But the former seems to be the truth.

Heat therefore must be produced in the *first* case. In the *second*, either *no heat*, *very little*, or even *cold*, may be occasioned according to circumstances, tho' probably neither heat nor cold.

In cold animals the *second* case may obtain both with respect to the *voluntary* and *involuntary* parts. Or it may obtain in the *voluntary parts only*, and in the *involuntary parts* the first case may take place, tho' in a less degree than in hot animals; for even fishes, &c. are of an higher temperature than the substances surrounding them. And in different animals this may obtain in a greater or less degree; hence their various temperatures.

These cases were suggested to me by the consideration that the cause of muscular motion

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must be the same in all the instances above specified, and the following experiments seem to confirm the opinion.

Experiment 1. By comparing the absolute heats of the flesh of a *bird*, and of a *fish*, that of the *fish* seemed to be rather the greatest.

Experiment 2. By comparing the absolute heat of the flesh of an ox's heart, with that of the muscles of the leg, that of the heart seemed to be the *least*.

The flesh in both these trials was separated from the tendinous, and other matters, but for want of good thermometers, and other conveniences, they were rather *crude essays* than *decisive* experiments, and require confirmation by more accurate trials.

In the second experiment it must be remembered that the *heart* serves chiefly for *involuntary motion*. That its sensible heat, during life, is greater than that of the voluntary muscles (in hot animals) further appears by its fat, which for this reason, is made to congeal sooner, or in a greater degree of heat, than that of other muscles; and this is also another argument that the absolute heat
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of the heart is less than that of the voluntary muscles.

It must be remembered too that the muscles serving for *voluntary motion* are likewise continually exerting involuntary action.

The above may perhaps be considered as a farther illustration of the proposition advanced in my book before mentioned, "that there is a connection between the action of the moving fibres, and the phlogification of the blood."

The *manner* in which the action of the fibre is effected whether by means of æther extricated from the phlogiston, encreasing the attraction of the particles of the fibre, or as suggested in the 12th section of that book, remains a question. But the fact alone would be sufficient for the purposes of physic. And this may perhaps be farther illustrated by the consideration that on opening a vein, the blood looseth of its dark colour as the patient becomes more faint: as well as by other circumstances mentioned in the 10th and 11th sections of my book.

Also, I advanced that only an earthy matter is secreted by the brain into the nerve, the phlogis-

ton being absorbed from the chyle. For this purpose a *vapoury* state may be necessary. The decomposed vapor may be the *lymph* in the *body*, and the *perspirable matter* at the *skin*; it not being, perhaps, convenient to place a sufficient number of lymphatics there to absorb it.

Around the fibres is a pulpy or mucous substance (the *putrescent* part of the system) which may be the compound formed of these, spoken of at the end of the book. Or do the involuntary parts only, communicate phlogiston to the blood? for in syncope's, when the involuntary parts act less, the venous blood is more florid than in health; tho' I have not yet had occasion to observe that the blood is more florid in sleep, or an apoplectic fit, &c. than in waking. If this be the case then the blood is phlogisticated only by the involuntary parts: or perhaps not directly by either. The nerves may contain a matter the basis of nutrition, secreted into them by the brain; and may have, besides, the property of retaining the æther, (or some very subtle elastic fluid,) extricated from the phlogiston, or some how generated in the act of phlogisticating the blood, which then may serve for the purpose of motion, to be occasionally driven into the muscles

muscles by the will, by stimuli, &c. It may be repelled by the particles composing the fibres, which therefore will be brought nearer together. Hence their contraction. But as it will instantly be driven away, there must be a continual derivation of it into the fibres as long as they are required to be kept contracted. This æther then may not phlogisticate the blood, but may, on the contrary, be produced by that process, as above suggested. The ganglions, and brain, may be repositories, for the purpose of retaining a greater quantity of it. This may be the vital principle in the body, (I do not mean the Soul;) and that this vital principle is neither fire, nor phlogiston, seems to appear from several considerations. Sir Isaac Newton, at the end of his optics has suggested that this ætherial medium is the cause of muscular motion: and I have started an idea, that this medium is attracted by, and makes a constituent part of phlogiston in its pure state. But I wave the consideration of these matters, as being of no consequence to the proposition. I only mean to advance that *there is a connexion, or dependence, between the phlogistification of the blood, and the action of the fibres*, the particulars, future enquiries must illustrate.

If

If this doctrine be true, a capital use may be made of it in physic. Many disorders may arise from the too violent, or too weak, attraction of the blood for phlogiston, and the action of the fibres in consequence thereof, and the intention of the physician, will be directed accordingly. Differences of constitution may also depend, in part at least, on this principle. Inflammatory disorders, fevers, hasty or passionate tempers, and the like may proceed from too strong, and their opposites from too languid an attraction of the blood for phlogiston. Some poisons too may kill by destroying or weakening this attraction.

The motions of the fibres of *vegetables* may depend on the same principle as that of animals, (see case 2 above) and, as fishes purify the phlogisticated air by agitation with water in their gills? So light has the same effect on that phlogisticated by vegetables?—Thereby not only making the air serve again for the same purposes, but turning the phlogiston separated therefrom to their nourishment and perfection?—Of these things however, I may have occasion to speak more at large

large in a future edition of my book, which will
also contain other additions and amendments.

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contain other additions and amendments.

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