An essay on the changes produced in the body by operations of the mind / [William Corp].

#### Contributors

Corp, William, -1790.

#### **Publication/Creation**

London : J. Ridgway, M.DCC.PCI. [i. e., 1791]

#### **Persistent URL**

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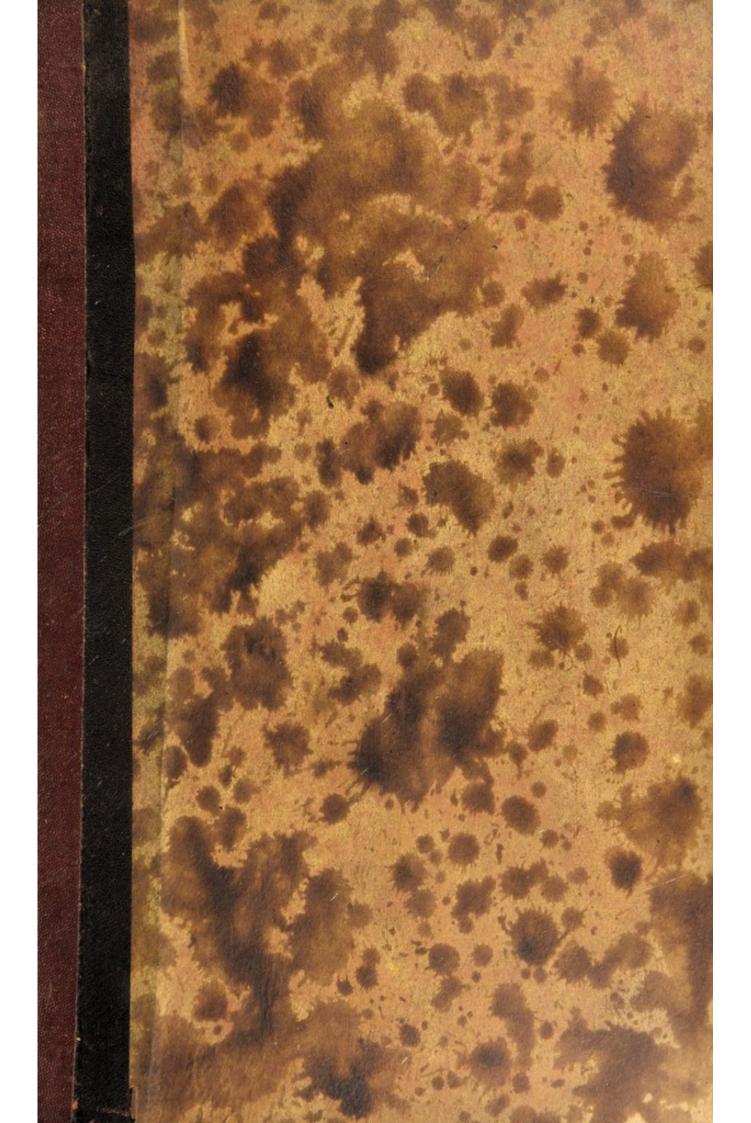
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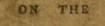
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# PREFACE.

THE difcuffion of fubjects which relate to the operation's of the Mind muft be ever difficult, from the obfcurity in which they are involved. Thofe which are comprehended in the prefent Effay, afford no certain data; the Author, therefore, may be allowed to affume fuch as his imagination fuggefts, provided their confequences do not lead to mifchief in their application. On this prefumption he ventures to publifh what hath been the amufement of his leifure hours, hoping, that if ufelefs, it will be at the fame time harmlefs..

In difcourfing on emotions and paffions, it is not his intention to fpeak of the whole

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or all the modifications of them, which are enumerated by the pneumatologift; but to confine himfelf to the confideration of those which may be deemed *purely mental*, as originating in the Mind, and not excited by, or blended with, corporeal fensation. Of this description are Hope, Joy, Anger, Fear, Grief, Anxiety.

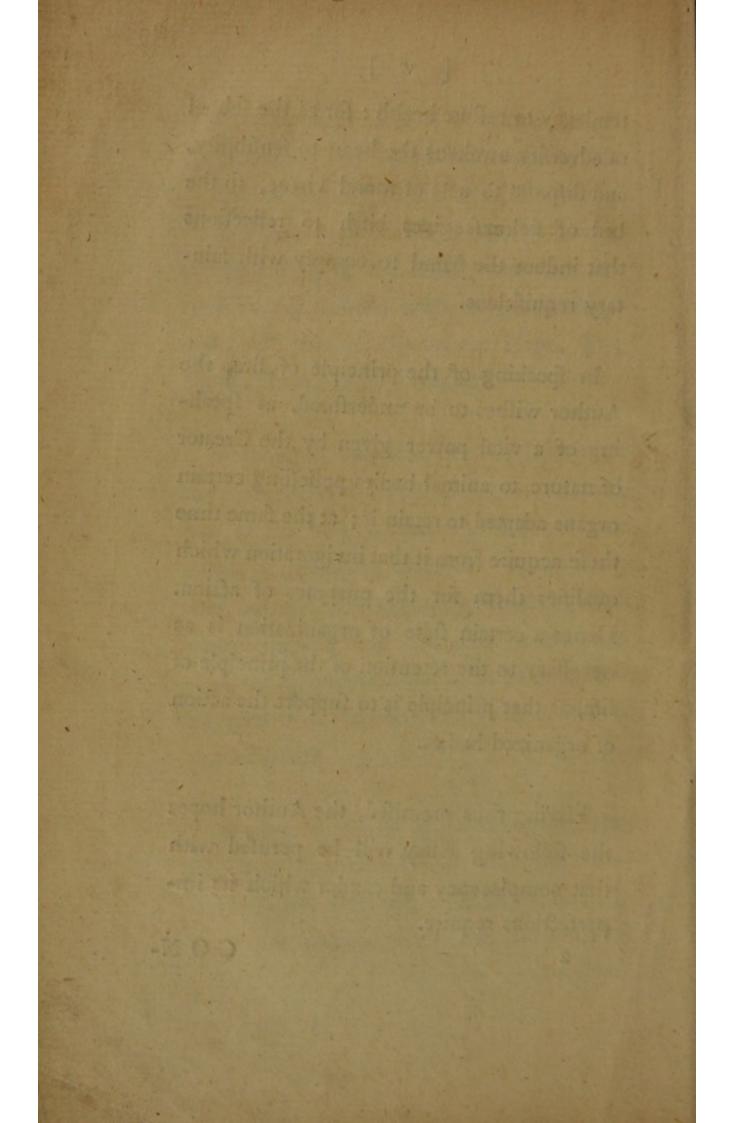
As thefe are found to act confiderably on the bodies of men, he is lead to treat of them; but as the beft fyftems of Ethics have failed in producing thofe effects in fociety their authors have anxioufly hoped for; we cannot fuppofe that what may be advanced concerning the operations of the Mind will be attended to in the mere temporary prefervation of health.

However this may be, it is not improbable, that those who labour under the *immediate pressure of disease*, will readily listen to every admonition which has the remotest tendency tendency to reftore health : for as the fchool of adverfity awakens the heart to fenfibility, and difpofes to acts of moral virtue, fo the bed of ficknefs gives birth to reflections that induce the Mind to comply with falutary requifitions.

In fpeaking of the principle of life, the Author wifhes to be underftood, as fpeaking of a vital power given by the Creator of nature to animal bodies poffeffing certain organs adapted to retain it; at the fame time thefe acquire from it that invigoration which qualifies them for the purpofes of action. Hence a certain flate of organization is as neceffary to the retention of the principle of life, as that principle is to fupport the action of organized bodies.

Having thus premifed, the Author hopes the following Effay will be perufed with that complacency and candor which its imperfections require.

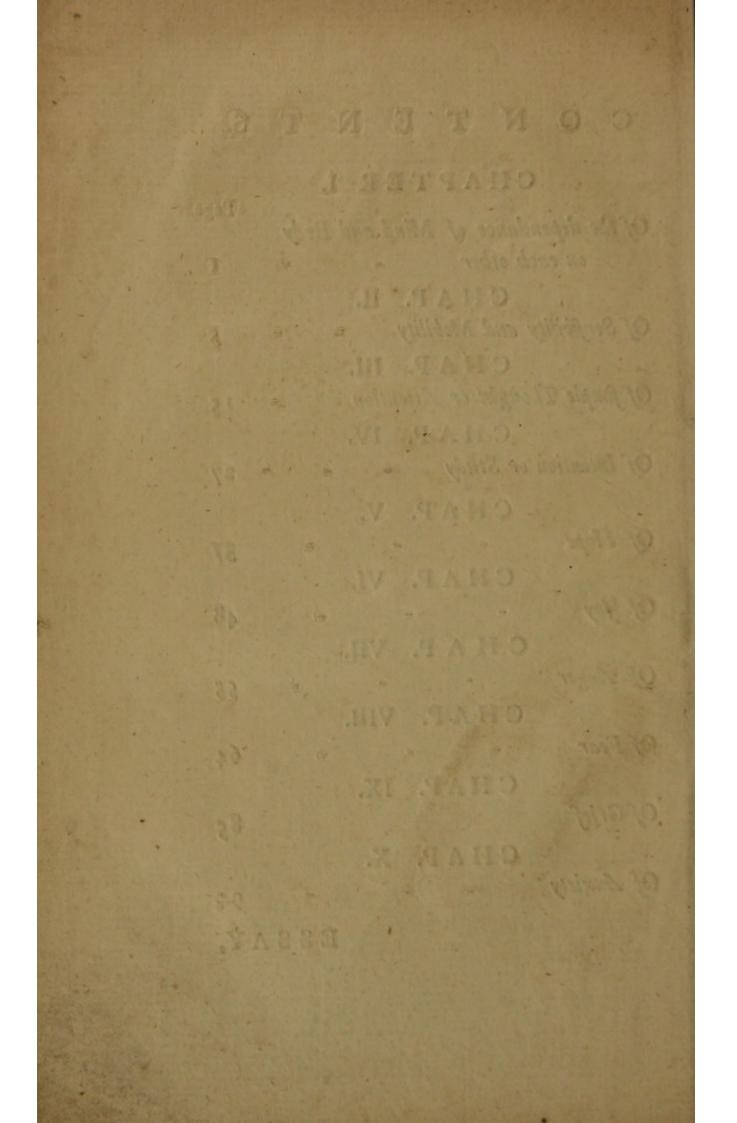
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#### CHAP. I.

# Of the Dependance of Mind and Body on each other.

THE clofe connection which fubfifts between the Mind and Body, renders the welfare of either, of confiderable importance to each. For as health on the one hand materially contributes to fupport a vigorous ftate of Mind, fo on the other, animating or pleafing ideas effentially tend to preferve a vigorous ftate of Body.

By difease the mental faculties are in general more or lefs impaired, and by the operation of any diffreffing or unpleafant reflection the corporeal functions are liable to be interrupted, or oppreffed. This influence of the Mind on the Body is not, however, univerfally prevalent, or equally apparent in every country; for among the hardy tribes of men whom the refinements of civilization have not reached, the Mind itfelf being of an auftere disposition, and infensible to the more tender and fympathetic emotions, is unable to affect the functions of bodies which are equally infenfible : but in those parts of the world where the Mind is humanized by the culture of focial and benign virtues, and the bodies of men are foftened by the operation of climate, every interesting thought may occasion fome change in the animal economy. The truth of this observation will, I doubt not, be confirmed by the testimony of most perfons who call to remembrance particular occurrences; and were we acquainted with the private hiftory of individuals, we should, I apprehend, be enabled to adduce many examples in fupport

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of it. In my professional capacity, I have often feen patients, where bodily complaints originated purely from a discomposed state of Mind, in consequence of the frequent interference, or perpetual operation, of some interesting reflection.

If we carry our obfervations farther, and confider the ftrong emotions and paffions which fometimes arife in the Mind, and the conftant agitations of Body, we muft conclude, that by *their* operation the more delicate organs of the human fyftem will be affected. Who, for example, can look on a man who is agitated by a violent paroxyfm of anger and refentment ? or on one who totters under the apprehension of fome dreadful calamity, without readily conceiving that by mental perturbations, health may be interrupted or totally deftroyed ?

Sanctorius, who by ftatical experiments endeavoured to afcertain how far certain conditions of the Mind were able to affect the Body, obferved, that the latter, even in a ftate of quiet, perfpired more, and became B 2 lighter, lighter, when the former was much difturbed, than when it underwent the most rapid movements, provided the Mind were at the fame time difengaged and free.\*

The Body, however, is not only liable to be affected by interefting thoughts, and by those more especially which raise commotions and passions in the Mind; but also by the exercise of the mental faculties, on subjects which have no particular reference to our happiness or misery. This position we hope prefently to illustrate by some reflections on the changes induced in the system, by a simple attention of the Mind to what is passing, as well as by a close and steadfast application of it, in the hours of study. For this purpose it will be necessary to treat of those peculiar properties of the human body, on which its functions chiefly depend.

\* Corpus quiescens magis perspirat et minoris ponderis fit, si animo vehementer agitentur, quam si celerrime corpus moveatur, animo permanente otioso.

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### CHAP. II.

### Of Senfibility and Mobility.

IT is well known that the functions of the human machine depends chiefly on those parts of it, which are endowed with Sensibilty, and Mobility, or Power of motion.

The word Senfibility is in general underftood to express a property of the body, by which applications to it excite fenfations in the Mind. I fhall, however, employ the word to fignify also the faculty of fimple fenfation, or a certain capacity of feeling, which living animal matter poffeffes, unattended by consciousness. It is this faculty of simple sensation that difposes the involuntary organs to be affected by their natural ftimuli, and the existence of it appears to be absolutely neceffary to render moveable parts irritable, or capable of being excited to action by caufes applied. This opinion has, I think, been very ably maintained by Dr. Whytt, in his

his controverfy with the celebrated Haller, who, in delivering an oppofite doctrine, feems to contradict himfelf, when he fpeaks of parts which are not irritable, as not feeling or perceiving the acrid matter, or other ftimuli applied to them. We never, as Dr. Whytt obferves, talk of irritating a ftone or a piece of wood, a tree, or indeed any thing that is defitute of feeling. Irritability, therefore, in the common acceptation of the word, muft imply fome kind of feeling.

Gaubius obferves, that we may conceive two faculties to exift in the living folid; the one a faculty as it were of *Senfe*, by which it perceives in fome peculiar manner, the action of a ftimulus, the other a faculty of motion.\* It is therefore evident, that this Profeffor alfo thought that moveable parts fhould poffefs *fome fhare* of Senfibility, to qualify them to receive those impressions which are neceffary to excite their action.

\* Duas in folido vivo concipere facultates licet; alteram quafi fentiendi qua ftimuli actionem fuo quodam modo percipit; alteram movendi qua fefe contrahendo vim vi opponit ac repellit veluti quod quietis fuæ ftatum turbat. It is very certain that those moveable parts which are *most fensible* are *most irritable*; fo that if at any time the fensibility of a mufcular organ be increased, its action is oftener and more readily excited than usual. When, for example, a part is inflamed, the fensibility of its arteries is fo increased, that the stimulating influence of the blood occafions in them the most accelerated motion.

When the fenfibility of the ftomach is increafed by inflammation, it becomes fo irritable, that not only the ftimulus of common food acts violently upon it, but even the mildest kind of liquids throw it into the most convulsive diforder. Those stimulating powers which are defigned by nature to act on other muscular organs, do also, when the fenfibility of thefe is increafed, excite their action too frequently. This is the cafe when the fenfibility of the inteftines, or bladder, is increased; the evacuations of the former become immoderate, and the efforts of the latter to empty itfelf, too frequent and exceffive. On the other hand, if the Senfibility of moveable organs be diminished, those stimuli which are appointed 2

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to excite their proper action, will be infufficient, and the fyftem thereby exposed to all the evils of stagnation. We therefore conclude, that the healthy ftate of an organ may be primarily deftroyed, by any caufe which increases, or diminishes to a certain extent, its Senfibility. This, however, must only be confidered as one way in which the healthy condition of an organ may be changed; for although its Senfibility be neither increased nor diminished, its health may be destroyed by an increase, or diminution, in the force of those causes to which it hath been accustomed, or by the application of others, to which it hath never been exposed.

That portion of Senfibility which is fufficient for *fimple fenfation*, as well as that degree of it which renders us confcious of impreffions, is dependant on the brain; for although parts capable of *fimple feeling* may retain it fome little time after they have been feparated from the body; yet their nerves, which are emanations or appendages of the brain, require a conftant communication with that organ to fupport this faculty.

The fame observation also holds good with respect to the power of motion. The muscles, it is true, are so constructed as to be peculiarly fitted for motion; but were their communication with the brain through the nerves cut off, their construction would be of no avail. Physiologists, therefore have, I think, too haftily concluded, that muscular organs posses a vis insita, or inherent power of motion, totally independent of the brain. A muscle, by contracting after it hath been feparated from the body, feems, indeed, to favour fuch a conclusion : but why may not the contraction happen merely from a retention of that motive principle which the muscle derived from the body, whilft it was connected with the brain ? I cannot indeed avoid entertaining an opinion favourable to this idea; for the more I reflect on the different conditions of the body, when the brain is either afflicted with difeafe, difturbed by paffion, or is in a state of health and tranquillity, the more am I induced to confider that organ as the fource of all motion, as well as fense. I shall therefore offer the fubsequent reasons for the fentiment I adopt :

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Ift. I confider the brain as the fource of motion, becaufe no organ, after its nerves are comprefied or deftroyed, continues to act as it did before. In either cafe the action of it becomes weaker, and in a very fhort time it fails to be excited by the ftrongeft applications.

2dly. Becaufe the action of a muscle may be produced by applying the exciting caufe to the nerve only, which *leads* to it.

3dly. Becaufe when there is a diminution or lofs of motion, whether it be in a voluntary or involuntary organ, we find that it is proportionate to the compression or injury the brain or nerves labour under. Hence, if the brain be *univerfally* compressed, or its power *wholly* destroyed, all motion ceases.

4thly. Becaufe the nervous matter is fo clotely interwoven with the mufcular fibre, that it cannot be feparated or even diftinguifhed from it. Every application therefore to a mufcle muft neceffarily affect the nervous matter. This being the cafe, we may, I think, I think, rationally infer, that the nerves which enter the composition of a muscle difpose it to contract, fince we know by experiment, that a ftimulus applied to nerves at a diftance from the organ with which they are connected, will excite motion in it.

5thly. Becaufe the brain feems to be the organ first endowed with life, that first evolves and arrives at full growth, earlier than any other part of the human machine. We may therefore, I think, be allowed to confider it as the receptable of life, poffeffing at the fame time, a power to transmit the vital principle, the efficient caufe of motion, to the other organs of the body.

This opinion I am difposed to confider as founded on fact, although I can neither explain the nature of the vital principle, nor the manner in which the brain acts in the transmission of it. It would feem, however, that according to the degree of excitement or increased action of the brain, the vigour of the whole fystem is either proportionably augmented or diminished. Health, therefore, may not only be interrupted, but life C 2

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itself be destroyed by either too weak or too strong an action of that organ.

The excefs of vigour occasioned by too great an excitement of the brain, is, in general, only productive of difease when it is either partial, or confined to the involuntary organs. This happens in what is termed the synocha, or inflammatory fever.

The vigour of the heart is in that difeafe fo increafed as to difturb the order of fecretion and excretion, and by propelling the blood with too much violence, it hath fometimes produced rupture in a part of the vafcular fyftem. Hence hæmorrhages of various kinds often happen when the inflammatory diathefis is prefent.

On the contrary; when the action or power of the brain is diminifhed, or wholly deftroyed, the body is either partially or univerfally deprived of that fupply of *vital principle* which gives it motion, or preferves its vigour. Hence debility, languor, palfey, or death enfues. It hath accordingly been remarked, that the caufes of death are, in general, neral, fuch as act directly or indirectly on the brain. Of the firft kind are those which directly attack and deftroy the vital principle, as lodged in the nervous fystem, or deftroy the organs immediately connected with it. Of the fecond kind are those which interrupt fuch functions as are neceffary to the circulation of the blood, and thereby neceffary to the due continuance and fupport of the vital principle.

From what has been faid we may infer, that in a perfect flate of health there is a *certain balance of firength or vigour* maintained between the feveral organs of the body, by the peculiar operation of the Brain : whatever, therefore, deftroys this balance, may be deemed a remote caufe of difeafe.

As there are, I apprehend, few caufes which more immediately affect the brain or nervous fystem, than the feveral conditions of the mind, fo there are but few which more *directly* interrupt or destroy that equilibrium of action and vigour which

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are neceffary to health. I am confequently led to confider those effects which the mind produces on the body when it is occupied by thought, or under the influence of emotiou and paffion.

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#### CHAP. III.

## Of Simple Thought, or Attention.

THAT application of the mind which is unattended by any fenfible exertion of it, I confider as conftituting the leaft, or moft fimple degree of thought. I therefore call fuch a trivial engagement of the mental faculty, *Simple Thought*, as it ferves only to amufe, or keep the mind in a ftate of tranquillity.

This fimple degree of thought, or attention of the mind, is both natural and ufeful: I fhall therefore attempt to point out its beneficial tendency on the healthy, and morbid body.

Since the human machine is continually exposed to the action of powers we cannot avoid, and which are for the most part *ftimulant* in their *fir ft* operation, Nature feems 1 chiefly

chiefly concerned in diminishing the general fenfibility of the body, as the most obvious or only method to prevent too violent effects from them. It accordingly happens in the revolution of a few hours, that a degree of infenfibility is regularly induced, conflituting a state of sleep; by which the system is relieved from the influence of caufes, whofe perpetual action would foon deftroy it. Even whilft we are awake it may, I think, be obferved, that our fenfibility is often diminifhed. However numerous the means may be by which this is effected, I am inclined to believe that Simple Thought is one, not the leaft confiderable : for the general fensibility of the body appears to be leffened in proportion to the degree of attention which occupies the mind ; that is, by an attention to any thing, except the imprefiions actually made on the body. This I shall attempt to illustrate by a few familiar examples.

Among the variety of ftimulating caufes which affect the body, exercise is one of the strongest; and the stronger any general stimulus is, the moving powers are the sooner weakened by it. Hence the ultimate effects of of exercife would perhaps fooner take place than they generally do, were they not counteracted by fome engagement of the mind. I am led, therefore, to imagine that Simple Thought, or Attention, often prevents that degree of fatigue which might otherwise happen during even the common exercife of the body .---- There are few perfons, I believe, who cannot fay, that they have been much lefs tired in walking with a friend or an agreeable companion, than by themfelves; and it is not uncommon to notice on fuch occafions, that we have walked to a certain distance without being sensible of its length; or (in other words) of that wearinefs which we ufually felt when alone. This diminution or prevention of fatigue feems to be induced by that attention which neceffarily occupies the mind when we are engaged in conversation : for, if when we are alone the mind be equally engaged, as is fometimes the cafe whilft we are musing (as it is termed) or enjoying our own thoughts, or contemplating the prospect around us, the fame effect takes place. It accordingly happens, that without a companion we fometimes walk to that diftance which usually tires us, with-

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out fuffering the leaft fatigue. This circumftance may be faid to arife from an occafional increase of bodily ftrength. I apprehend, however, that if a man be in health, his ftrength to-day and to-morrow will be entirely, or very nearly, the fame; fo that we may be allowed to confider this variation in the effects of exercise as dependent on mental attention, which must ever vary according as the objects which arise are more or less engaging.

The fports of the field, as they employ the mind, have certainly a tendency to obviate, or lessen, in some measure fatigue in their pursuit. Hence a sportsman will feel lefs tired under an equal exercife of the body, when he beats through a country that affords plenty of game, than over one which furnishes but little. -With me, indeed, it is a queftion, whether the laborious claffes of mankind would be able to execute fo much work as they commonly do, were not their minds at the fame time engaged by fimple Thought. The machine during this employment ufually fings or converfes, and thereby amufing

fing his mind, he alleviates the burthen of the day. The peafant whiftling over his labour, often retires to reft much lefs fatigued than a perfon who lounges through the day with a mind lefs occupied, and a body lefs employed. It is not uncommon therefore fometimes to remark in an evening, that we feel ourfelves much fatigued, and to wonder at it, becaufe we had *done nothing the whole day* ! In this cafe, the fatigue complained of arifes from a too weak, or non-engagement of the mind.

By an attention of the mind, those flimuli which affect the fystem through the feveral organs of fense, are prevented in fome measure from over-acting or producing effects which might too foon exhaust the energy of the brain, or nervous power. Hence, the too flrong impressions of light and found, and the too frequent folicitations of hunger and thirst, and of the appetites in general, are in some measure obviated. I am therefore led to believe, that simple thought tends to preferve the healthy exercise of the moving powers : for although it diminish fensibility to a certain extent, it

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never fo far depraves the nervous fystem as to render it infensible to those exciting causes which are requisite to the well-being of the animal economy.

the day with a mind lots occupied, and a

This degree of thought or attention of the mind, as it ferves merely to amufe, is often of confiderable use in the cure and prevention of particular difeases. Those for example which are attended with convulfive or spasmodic affections, may be often removed by it, and their recurrence frequently prevented. Dr. Whytt tells us, that he had often been cured of a flight hiccup by looking fleadfaftly for two or three minutes on the impreffion upon a fhilling, or any other coin; and that he knew a lady, who, though very liable to hysteric fits, was never affected with them or with flighter complaints, when any of her children happened to be dangeroufly ill. These are examples which unqueftionably prove, that fenfibility of body is diminished by an attention of the Mind. therefore led to believe, that Smith

In confequence of a diminution of fenfibility by mental engagement, even pain itfelf

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Invalid forgets his pain, (as he expressed himfelf) whilft he is amused by the company of his friend, or the conversation of those who visit him. From the fame cause alfo, namely, a full engagement of the Mind, it is I apprehend, that Philosophy has been found sometimes to mitigate pain or uneafinefs of body. Hence those principles of virtue, fuch as Fortitude, and the love of Glory, which were inculcated by the Philosophers of former ages, being calculated fully to engage the Mind, may on fome occafions have prevented that acuteness of bodily feeling which might otherwife have prevailed. It accordingly not unfrequently happens, that a Soldier during the heat of battle, is wounded without being fenfible of the circumstance, until faintness through lofs of blood give him the alarm.\*

\* Non fentiunt viri *fortes* in acie vulnera; vel fentiunt, fed mori malunt, quam tantillùm modò de dignitatis gradu dimoveri. Fulgentes gladios hoftium videbant Decii, cùm in aciem eorum irruebant : his levabat omnem vulnerum metum *nobilitas* mortis et gloria.——Hæc funt folatia, hæc fomenta fummorum dolorum. Cic. queft. Tufcul. The nervous fyftem is fometimes to irritable, that fleep cannot be procured by opium or other medicines ufually employed for the purpofe of inducing it : in fuch cafes therefore we fhould have recourfe to means adapted to engage, or amufe the Mind.

The uniform fucceffion of founds, as the hum of bees, the murmur of a rivulet, the whiftling of the wind, the gentle fall of a cafcade, the bleating of lambs, the cooing of doves, the ringing of bells at a diftance, and the graver tones of mufic, as they invite our attention without producing any confiderable emotion, contribute to induce fleep.\*

\* Fortunate fenex ! hic inter flumina nota, Et fortes facros, frigus captabis opacum. Hinc tibi, quæ femper vicino ablimite fepes, Hyblæis apibus florem depafta faliati, Sæpe levi fomnum fuadebit inire fufurro.

VIRG. Eclog.

Labuntur altis interim rivis aquæ;

Quæruntur in fylvis aves; Fontefque lymphis obstrepunt manantibus, Somnos quod invitet leves.

Hor. Epod. The The effect of these therefore point out to us the propriety of employing fimilar means, when rest is wanted by the fick.

Boerhaave on some occasions, in order to procure fleep for his patient, directed water to be placed in a fituation fo as continually to drop on a brafs pan. Others have used the Æolian harp; and I have been told, that for the fame purpose, in some parts of a neighbouring Island, nurses are at this day employed to fing to the fick, or tell them fome long flory in a monotony of voice. This indeed has ever been more or lefs the cuftom of those who have had the care of young children. Another method alfo hath been fuccessfully made use of to procure fleep, namely, the enumeration of figures or the repetition of fome heavy verfe. This can no otherwife produce fleep than by engaging the Attention.

A confirmation of what hath been advanced will, perhaps, appear when we reflect, that the very opposite effects are produced by the Mind, when it is wholly attentive to the imimprefiions which are made on the Body. In this cafe, their force and the diffinct perception of each are increafed; hence those imprefiions which would otherwise only create a trifling uneafines, will, under such a circumstance, produce it in a considerable degree.

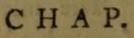
It is upon this principle of Attention to impreffions made on the body, that the feveral organs of fenfe are improved, as the eye and ear, &c.; the former in the accurate diffinction of objects, and the latter of founds.

Hippocrates hath obferved, that when two painful fenfations arife, and each of them in a diffinct part of the body, the one which is most violent takes from, or diminishes our perception of the other.

This is certainly effected by the fuperior force with which the greater pain attracts the notice of the mind. From a fimilar caufe, I apprehend, impressions on the Mind fometimes leften the effects of those which are made on the body; for, except an impression

preffion made directly upon the former be ftrong enough to engage its attention more than one made immediately on the latter, no fuch confequences will follow; we accordingly find, that if a perfon fuffer violent pain, his Mind can never or very feldom be engaged fo as to render his feeling lefs; because the impression on the part affected is much stronger than any we can in general make, by an immediate application to the Mind. In fuch a cafe, therefore, the Mind, inftead of being diverted from the impreffion, is on the contrary, irrefiftibly compelled to attend to it only. It has however fome-. times happened in perfons of timid minds, that the tooth-ach, a very common and fevere pain, hath been removed by the fight only of the Dentift's inftruments. On this occasion the Mind is awefully and confequently very closely engaged.

The inferences which neceffarily arife from what hath been faid, are in my apprehenfion fufficient to direct our conduct both in the management of health and difeafe. They point out to us the propriety of *amufing* the Mind when we are in pofferfion of E the the higheft health, or under the influence of particular difeafes, or in that convalefcent ftate which renders every impression on the body, doubly important.



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# CHAP. IV.

## Of Intention or Study.

Having in the former chapter treated of a paffive kind or condition of Mind, I proceed under the prefent title to fpeak of that which is of a more active nature, and which hath confequently a more confiderable influence on the animal œconomy. For the truth, however, of my obfervations on the prefent fubject, I must chiefly appeal to those who are acquainted with the tasks of literature and science. I shall, therefore, under distinct heads, endeavour to point out the feveral changes which a laborious employment of the Mind may produce in the body.

1ft. The first, and I apprehend the most apparent change, is, in its Sensibility.

Those who have been engaged in literary purfuits will, I believe, easily recollect inci-E 2 dents

dents which have arisen during Study, fufficiently to convince them, that their Senfibility must have been at that time confiderably diminished : for example, it not unfrequently happens, that a studious man continues in his room many hours in purfuing a train of thought, without knowing that his fire has gone out, or feeling the least inconvenience from fuch a circumftance. At another time, his Mind not being fo fully engaged in a fimilar fituation, he is very fenfibly affected by the chilling power of cold. The fenses, indeed, are fometimes fo impaired by a clofe and elaborate attention, that even confiderable noifes pafs unnoticed, and those objects which we feem particularly to observe, make no impreffion on us. This the eye fometimes during fludy is directed to, and fixed on objects, which, to fpeak in common language, we do not fee, or to the impreffions of which we are totally infenfible. This wholly depends on the intenfity of our application; for as foon as that is diminished, we become more fenfible, and when the Mind withdraws from those objects which fo fully engaged

gaged it, our perception of every impression is as distinct and perfect as usual.

To what has been faid, it may be objected that even during Study our fenfes are affected by very trivial caufes, a finall noife a cooler air, or a ftronger light than ufual being fufficient to difcompofe us. This appears however to happen only, when the Mind is *imperfetly* engaged, which is generally, if not always the cafe, at our firft fetting down for the purpofe of Study. Our ideas at this time are in general too fugitive, or at leaft not fufficiently affociated to acquire that power which is neceffary to force the Mind to a fteadfaft application. Such an objection, therefore, does not, I conceive, invalidate the propofition advanced.

By long and frequent Study the fenfibility of those organs which ferve to the natural functions, becomes so impaired, that stimuli adapted to their proper or original state of feeling, fail to produce the necessary and usual effects. Hence the stomach during Study losing some portion of its sensibility, is not so readily affected by the liquor it fecretes, fo that our appetite does not *then* fo often arife. Perfons in fuch a fituation are accordingly known to faft many hours, without feeling the folicitations of hunger; at the fame time alfo, a like failure of fenfibility prevails through the inteftines, fo that a coffive habit is induced.

The effects enumerated, therefore, of clofe mental application, conjoined with a fedentary life, give rife to obftructions in the abdominal vifcera, and form the bafis of those diforders to which men of letters are particularly liable.

2dly. When the Mind is employed on any work of Study, the general fenfibility of the body is not only confiderably diminished, but the brain is fo actuated, that the motion of the blood is quickened, and more than usually determined to that organ.

The more increased motion of the blood may have no injurious tendency in a healthy perfon, or in one who is not predifposed to particular difeases. To those however who are, or who actually labour under any diforder

order in which the circulation is already too quick, especially if it be attended with occafional delirium, the leaft degree of thought beyond what conftitutes simple attention, may prove injurious. A prudential caution, therefore, is often neceffary to be observed, in transacting any business with the fick, which requires the exercise of much thought. But although the mere circumstance of an accelerated circulation may not be of any great importance; yet, as intenfe thinking determines at the fame time a confiderable afflux of blood to the head, a long occupation of the Mind in Study should be avoided by perfons who from their constitution, or time of life, are disposed to apoplexy, or other affections of the brain. In this place I may, I think, venture to relate one instance of temporary Apoplexy, which . feems to have been occafioned by a clofe application of the Mind. An old gentleman of my acquaintance, the late Archdeacon of Bath, whilft intently engaged in the perufal of a new publication, fell fuddenly from his chair. His fpectacles were broken by the fall, and cut his face fo as to produce a con-

fiderable flow of blood. By this accident it

is probable that a *fatal Apoplexy* was prevented, the furcharged veffels of the head being immediately relieved by the bleeding.

I have known more than one inftance of perfons liable to epilepfy, who were generally feized with a fit if they read too long at a time, efpecially if the fubject were in the leaft abftrufe. One unhappy man of this defcription I much pitied, as his chief amufement arofe from the newfpapers ; he was very fond of politics, but could feldom read through a long Parliamentary debate without being affected by an epileptic paroxyfm, or obliged fuddenly to throw afide the paper he was reading, by fome fymptoms of its approach.

To the unmedical reader, I do not know how to illuftrate my affertion, that a clofe application of the Mind determines the blood to flow more particularly to the head, otherwife, than by directing him to obferve the countenances of those who play at cards for high stakes, or for such as are of sufficient importance to merit a full attention to the game they are upon. In one who has been forme tome time engaged in play, a greater glow of the face and fullnefs of the blood veffels of the eyes may be perceived, than before he fat down for that purpofe. Hence on fuch occafions a complexion naturally pale will fometimes affume a ruddy appearance. The effects of fuch attention are very confpicuous in perfons of a full and fanguine habit; and thefe will be often fenfible of this determination to the head, by the increafed heat they feel in the face when the fhort intervals of play permit the Mind to attend in fome meafure to the flate of the Body.

3dly. By a long and frequent employment of the Mind in Study, the general vigour of the Body is impaired.

The alteration or change in the ftate of the brain induced by Study, cannot be afcertained, nor fatisfactorily explained upon any principle of theory; it may be therefore allowable to conjecture, that it is fuch a change as retards, or prevents, that full transifion of the vital principle to the feveral organs of the body which we deem

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neceffary to the ftrength of the whole, and which I have already mentioned as dependent on a proper action of the brain.

A more than ordinary accumulation or retention of the vital principle in that organ is, perhaps, required under the arduous exercife of Thought; or this principle may be very confiderably expended during that period, by the peculiar exertions of the brain. Be this as it may, it is certain that long and frequent fludy weakens the general fystem independently of other concurring caufes. Hence studious persons are often afflicted with tremors, which are most conspicuous when they attempt to write, or do any thing that requires a steadiness of hand; and as the action of the heart and arteries is lefs vigoroufly performed, they become alfo liable to various obstructions, and to a diminution of that natural heat and perspiration, which are effentially requifite to the fupport of health.

From these causes, the fluids accumulate, and from some interruption or weakness in the lymphatic system, their more watery parts parts are left in the cavities of the body, fo as to occasion dropfy, and finally death.

4thly. Laftly. By long and frequent intention, the brain itfelf becomes impaired; hence the dimnefs of fight, dullnefs of hearing, lofs of memory, fatuity, and palfy, are afflictions which have befallen many an indefatigable genius in this and in other countries.

Convalescents, therefore, and persons of weakly habits, should particularly avoid much Study, and if they study at all, should often change their subject, as a mode of diminishing in some degree the fatigue which might otherwise ensue.\*

Exceffus tamen cum varietate fludiorum tolerabilior eft: et vehemens cogitationum in eandem rem intentio, non interrupta, rari funt, quibus non magnopere noceat. Etenim pars illa fenforii communis, quæ fola tum in actione eft, et in quam tota veluti mens omni fua vi incumbit, violentiam patitur haud minorem, quam mufculi fingulares fortiter diuque contracti. GAUB. Inft. Patt. But although long and frequent Study independently of other caufes, very confiderably tend to impair the vigour of the body, and induce those difeases to which literary men are particularly liable; yet the fedentary life it imposes must be confidered, as in no fmall degree contributary. Nothing, therefore, can tend to preferve the health of fludious perfons fo much, as an habitual or regular exercise of the body during the feveral intervals of Study; fince it opposes the injurious tendency of their fedentary hours, and by deranging the order of thought, prevents a too quick renewal of the fludious flate.

CHAP.

#### CHAP. V.

#### Of Hope.

HOPE is an emotion of the Mind, defigned, as it would feem, for the fupport of Man under the gloomy viciffitudes of human deftiny. It enables us not only fully to enjoy the good we are in pofferfion of, but to furthin more eafily the common evils of life by reprefenting to us the animating profpect of better days.

> ----Hope prolongs our happier hour Or deepeft fhades, that dimly lower And blacken round our weary way, Gilds with a gleam of diftant day.

> > GRAY.

The animal œconomy, therefore, derives no inconfiderable benefit from the exhilarating influence of this emotion, as will appear more clearly when its effects are contrasted with those which are produced by an oppofite state of Mind.

By the influence of Hope on the nervous fystem, the action of the heart, fo far as it depends on the energy of the brain, is in some measure affisted. Hence it contributes to invigorate the circulation, thereby maintaining that tenfion of the blood veffels which is neceffary to fupport the general ftrength of the body : as it has this tendency, it may be justly deemed a prefervative power, a prophylactic, which oppofes in no finall' degree the attack of particular difeafes. It has accordingly been remarked, that when the Minds of perfons have been fortified by Hope, they either escape contagion from a prevailing epidemic, or are infected by it in a milder manner than those who give way to unfavourable apprehentions.

The utility of Hope, in the prevention and cure even of the plague, is attefted by the writings of those who had fufficient opportunities of observing it. We should, fays a late celebrated Professior, fortify as well as 3 possible poffible the *Minds* of those who are exposed to the contagion of plague, by giving them a favourable idea of the power of prefervative means, by destroying the opinion of the incurable nature of the disease, and by preventing all those objects which tend to deject the spirits, such as funerals, passing bells, and the knowledge of the death of friends.

The ingenious and humane Howard is, pethaps, not far from the truth in fuppofing that the jail-fever depends in a great meafure on the flate or condition of the Minds of those who are exposed to it. If it were afked, fays he, what is the caufe of the jailfever ? it would in general be readily replied, the want of fresh air and cleanlines. But as I have found in a few prifons abroad, cells and dungeons as offenfive and dirty as any I have observed in this country, where, however, this diftemper was unknown, I am obliged to look out for fome additional cause of its production. I am of opinion that the fudden change of diet and lodging fo affects the spirits of new convicts, that the general causes of putrid fevers exert an immeimmediate effect upon them. Hence it is common to fee them ficken and die in a fhort time, with very little apparent illnefs.

To the above opinion, it may perhaps be oppofed, that the change of diet and lodging would *alone* be fufficient, by weakening the fyftem, to difpofe it to receive infection. It is however certain, that as depreffion of Mind tends very confiderably to diminifh vigour of body, the latter is in confequence difpofed the more readily to be affected by putrid effluvia. I am inclined, therefore, to believe, that were an accurate obfervation made, those criminals who are of the most obdurate dispositions of Mind would be found the least fusceptible of contagion.

But the falutary influence of Hope will, perhaps, be more obvious, when we confider its effects on the *morbid* body. In those diforders which are attended with debility and languor, every humane and attentive physician must have noticed the exhilirating power of this emotion. Hope, fays the late late Dr. Fothergill, is of vaft moment, in the cure of many difeafes; and it is not perhaps inconfiftent with the duty we owe to our patients to promote it, whilft we ourfelves retain a hope of their recovery.

Here it may not be amifs to oppose that cenfure which is occafionally caft on the phyfician who endeavours to cherifh Hope in his patient to the laft. Such conduct has been deemed improper in a religious view, but how far it is reasonable to expect that the repentance of a past life will avail at fo late a period, it is not for me to give an opinion. I am, however, convinced that by depriving the Mind of Hope, we may hasten the exit of the fick, and render their last moments truly miserable : for the awe of dying is fufficiently diffreffing to the Mind, and depreffive to the body, whether men are well, or ill, prepared for the event. A more rational plea for informing a patient of his danger might be given by those of his family or connections, whose protection and welfare, after his decease, depend on the condition in which he leaves

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his temporal concerns. If, therefore, it fhould be intimated to a phyfician, that the affairs of his patient are unfettled, and he fhould be folicited to acquaint him of the dangerous tendency of his diforder, he ought, perhaps, to acquiefce; but even in this cafe he fhould avoid it, until he had tried every other method to induce him to adjuft what he had omitted: for it fometimes happens, that the moft experienced and fagacious phyfician is miftaken in his prognoftic, and perfons recover from the brink of the grave, who, probably, would not have efcaped, had they been informed of their real danger. To proceed:

Sanctorius obferves, that nothing occafions a more liberal perfpiration than confolation of mind; and, among other emotions, Boerhaave mentions Hope, as acting a curative part in the languid ftages of fever. \*\* If, indeed, the proximate caufe of a continued fever be in part owing to a confiric-

\* Lætitia moderata, Spes futuræ fanationis, defiderium præcipua hic funt et tutiffima; cum motum humorum leniter augeant.

> Van Swiet. Comment. in Boer. tion

tion of the extreme veffels of the body, (as is the modern doctrine) the confolatory power of Hope may be useful, by contributing to reftore that energy of the Brain which is neceffary to overcome it.

It is well known that, in the rude times of medical fcience, the cure of diforders was often attempted by amulets, incantations or charms, to which cuftom Horace, in one of his Epiftles, feems to allude, on fubjects of mental difquietude :

Sunt verba et voces, quibus hunc lenire dolorem Possis, et magnam morbi deponere partem.

I can indeed readily imagine, that as the minds of the fick were imprefied with a firm hope or confidence in fuch remedies, a falutary change in the animal economy was fometimes effected. If, therefore, in the prefent enlightened age we find perfons who believe in the efficacy of charms, or modes of cure, equally ridiculous, it will, I think, be proper to make ufe of fuch remedies; being of opinion that any attempt to remove the credulity of perfons fo infa-G 2 tuated,

tuated, would be as unphilosophical, as to recommend the observance of similar means to those who have no faith in them : at the fame time, however, it will be highly neceffary to administer such medicines as are most likely to effect a cure, taking care that the patient confider them merely as *auxiliaries*, otherwise *real remedies* may be wholly rejected : for when the human Mind is infatuated by any particular opinion, it will never adopt maxims which such fuperfede, however it may be disposed to acquies in fuch as tend to confirm it.

Hope ought, perhaps, to be more efpecially encouraged in perfons who labour under chronic difeafes, as it will induce them ftrenuoufly to purfue the neceffary means of cure, which, to be effectual, require to be long continued. Although in fuch cafes we may have only a very weak expectation of being able to reftore health, we fhould endeavour by every method to prolong life, even if it be attended with much fuffering : for as the human body progreffively undergoes fome change, the diforders it labours under at one period, often ceafe at another. Hence Hence those which accompany childhood may retire at puberty, and fuch as occur in youth cease at middle age, and those of middle age give way in more advanced life.

Notwithstanding many diseases of the body confiderably deprefs the Mind, there are but few in which a man totally throws afide his Hope. Some inftances, indeed, occur where this benign emotion feems to increase with the exigencies of nature. In the extreme stage of confumption, for example, as well as through the whole progress of that diforder, the fick are apt to entertain the most favourable opinion of their complaints; they are confequently cheerful, and often pleafe themfelves by conversing on the different amusements they expect foon to partake of, or on the return of feafons which they think will reftore them to perfect health. If difappointed, they very readily fuggest reasons for it, and immediately difcover other pleafing views equally delufive. I particularly remember a confumptive patient who, with-

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in a few hours of his death, detained me a confiderable time, in defcribing a certain fpot of land, the nature of its culture, &c. &c. and in anticipating the enjoyment of a ride to it the next day. He was then perfectly collected, and in fpirits, but before the fucceeding noon he died.

If it be true, as from observation I have no doubt in believing, that confolation of Mind, or the Hope of relief, contributes to the cure of difeafes, and the prolongation of life, we may, I apprehend, conclude, that fick perfons reap no inconfiderable benefit when they meet a friend in their physician; as this union tends, in the highest degree, to excite that Hope and confidence which are, perhaps, in no fmall degree requifite to the fuccefsful administration of medicine. Hence Pechlin, " Quotidianum est, nisi concepto ante gau-" dio et fiducià de medico ægrotantis " animus erigatur, lentas effe remediorum " vires."

Hope,

Hope, when confidered as a remedy, appears, in one refpect at leaft, to have the advantage of every other emotion; it acts without violence, and may of courfe, be fafely encouraged in every fpecies of difeafe.

CHAP.

48

CHAP. VI.

## Of Joy.

THIS emotion, if it be occafioned by any fudden or unexpected caufe, may not only produce very confiderable, but even fatal changes in the animal economy. When fuch happen, the vital principle is either at once expelled, as it were, by an over excitement of the brain, in confequence of fome great injury done to the blood-veffel fyftem, the welfare of which is abfolutely neceffary to fupport the tone of the brain, and confequently the continuance of life in the human body. \*

\* Organa quæ fanguinem movent tantum cum cerebro commercium habent, et fanguinis motus, ad excitandum, fuifque muneribus aptandum cerebrum adeo neceffarius eft, ut hæ binæ functiones fubfidium ferant et petant viciffim neque altera fine alterius ope perfici queat.

> Grægor. Confpect. Med. th. That

That the former circumstance fometimes occurs, it is very probable, fince in perfons cut off by the violent operation of this emotion, no marks of organic injury have been discovered on diffection : but that the latter should often happen, it is more likely, from the phænomena which take place in the paroxysm of excessive Joy. In this, the action of the brain on the muscular fibres of the heart is fo increased, that the contraction of the latter is performed with more than ufual force : hence the blood is not only propelled with increased violence, but the return of it from the auricle is at the fame time retarded by the spaffic state of the ventricle. The countenance accordingly appears red and turgid, a fense of stricture is felt around the præcordia, and respiration is fhort and hurried. This contraction of the ventricle being followed by a proportional relaxation, the tenfion of the veffels of the head is removed, fo that palenefs and fyncope often fucceed.

On the fudden attack of Joy, therefore, fhould the texture of the heart or its contiguous vefiels, or those of the brain, be delicate.

licate, a rupture in either may happen. But the extinction of life is not fo dreadful an effect of fudden or violent Joy, as that perversion of intellect which conflitutes infanity, and that flate of annihilation termed fatuity, which fometimes fucceed its operation. When these happen, fome important change takes place in the brain, of what nature we know not.

On the other hand, when this emotion fprings from anticipation, that is, when it arifes from circumftances which firft produce Hope, or an expectation of future good, it is not only exempt from every injurious tendency, but productive of the moft ufeful and falutary purpofes in the animal economy. In fuch a cafe, the fyftem is as it were prepared by a gradual excitement of the brain, to fuftain the increafed action which, on this occafion, takes place in the feveral moving organs of the body.

Whenever, therefore, Joy is excited by the gradual operation of its caufe, the circulation is invigorated fo as to produce the fullest tension of the vafcular fystm, on which which the general ftrength of the body in a great measure depends. Hence, under fuch a ftate of Mind, the various excretions will be completely performed, the appetite and digeftive faculty preferved in full vigor, \* and visceral obstructions prevented.

Thofe, accordingly, who pafs cheerfully through life, have, in general, the moft healthy appearance : for by the invigorated action of the heart, the extreme veffels being completely filled, the countenance receives that glow and animation, which are fo characteriftic of good health. A joyous ftate of Mind, therefore, by thus contributing to fupport the general vigor of the body, may tend not only to preferve it from the attack of particular difeafes, but alfo to prolong life.

A late writer, in his comparative view of the flate and faculties of man, &c. obferves, that the gentlemen of France, in all periods of life, even in the most advanced

\* Videmus eos qui animo læto et hilari funt, cibum facilius et celerius concoquere.

Sennertus de viribus imag.

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age, never affociate with one another, but fpend all the hours they can fpare from bufinefs, or ftudy, with the ladies, with the young, the gay, and the happy; and that they live longer, and what is of much

greater confequence, live more happily, and enjoy their faculties of body and mind more entire in old age, than any people in Europe.

As exceffive or fudden Joy is fometimes injurious even to thole who are in health, the utmost circumspection should be obferved in communicating to the *fick*, any intelligence which may excite this emotion. The pleasing fcene must be gradually unveiled, and every fascinating circumstance cautiously made known : for it feems to be an established law of nature, that every change in the human body compatible with fasty, should *in general* be effected by a gradual though powerful operation.

When this caution is obferved, Joy may be of no inconfiderable ufe in the cure of many difeafes. In all chronic cafes, for example, efpecially in those which arise from obobstructions in the extreme veffels, or in those parts whose organization is delicate as the glands; and in fevers alfo, when the action of the heart is too languid, it may be of advantage to employ those means which produce cheerfulnefs of thought.\* Even in the gout, especially in the atonic species of that difease, where the system is too languid to excite an inflammation on any of the extremities; circumstances which exhilarate the Mind, have been found ferviceable. In fits of regular gout, indeed, cheerfulness of thought is of no small use, in enabling nature either to throw it off, or fupport it, with lefs injury to the conftitution. In arthridite, fays Pechlez, femper lætior animus et patientia instructus plurimum prodeffe et in partem fanationis venire folet, et reperti funt, qui ubi alia non profuerant, remiffo animo aut lætitia perfuso valetudinem recipêre. In diseases of the spafmodic kind, or such as occur perio-

\* Spes, Lætitia, perfpirationem promovent, pulfum adcelerant, fanguinis itinera liberant, adpetitum intendunt, morbos fanabiles reddunt.

> Haller. de fens. intern. dically,

dically, this emotion alfo has been found ufeful.

Under the reftrictions, therefore, abovementioned, Joy may be employed as a remedy on all occafions, except when a difeafe be attended by very violent inflammation, an affection of the brain, or particular hæmorrhagies, as bleeding at the lungs, &c. &c. in which latter cafes a very trivial impreffion on the Mind hath been fometimes productive of alarming confequences.

CHAP.

### [ 55 ]

### CHAP. VII.

## Of Anger.

F all the exciting paffions, this appears to affect the body most confiderably. The feveral circumftances which attend an excitement of the brain by the operation of excessive Joy, are greatly increased during the paroxyim of Anger. Those changes in the fystem, therefore, which we have already observed, as likely to take place under the operation of the former, will with more certainty supervene the action of the latter. The countenance is not only more turgid, but the fuffusion much deeper, approaching to purple, the eyes at the fame time appear ready to ftart from their orbits, and the refpiration extremely hurried. The circulation is fo much increased by it, that from feveral organs of the body, very profuse hæmorrhagies have been occasioned, fuch as bleedings from the nofe, ears, lungs, anus, and uterus. These effects of Anger - 2 are,

are, indeed, generally induced on perfons who are conftitutionally difpofed to fuch diforders, but more efpecially on those who have been once afflicted with them. By the violent operation of this passion, however, more important effects may be produced, such as palfy, apoplexy, and sudden death. These may happen in perfons of every age, but more particularly in those who are of a full and fanguine habit, or who are advanced in life.

The paffion of Anger has fo great an influence over the organs of refpiration, that it feldom fails to induce an afthmatic paroxyfm on those who are predisposed to, or have already fuffered from, affections in breathing. Its power also over the biliary fecretion is so confiderable, that its operation is often fucceeded by very profuse evacuations of bile. This latter effect is indeed fo common, in fome conflictutions, that a fuperabundance, or an ill condition of the bile, hath been confidered as the cause or promoter of the passion we now treat of. Hence the terms *passionate* and *choleric* are fynonymous, as implying irafcibility.

Put

## [ 57 ]

Put him to choler ftraight : he hath been used Ever to conquer, and to have his worth Of contradiction : being once chaf'd, he cannot Be rein'd again to temperance ;———

higher all and a give high

SHAKESPEAR.

Anger is not only capable of increasing the fecretions of particular organs, but of producing also some change in the fluids fecreted. In the milk, for example, fuch a change may be occafioned, as to render it pernicious to infants, or at least fufficiently to deftroy its nutritive quality. On this account, therefore, it may not be improper to obferve, that perfons who employ nurfes for their children, ought not merely to make choice of those who poffess an healthy and vigorous state of body, but fuch whose minds at the fame time are least liable to be difturbed by the influence of paffion. For although we do not fuppofe, as fome have, that an infant can imbibe the virtues or difposition of the perfon who fuckles it, yet we doubt not the nutritious property of the milk may be deftroyed by the operation of Anger, or any violent or exceffive emotion. Hence the child will be deprived of proper nutriment, and become in confequence weak

weak and fickly. Whilft, then, this reflection conveys a proper lefton to mothers, whofe delicate conftitutions oblige them to commit the office of fuckling to hirelings, it affords an ufeful hint to all who give fuck, of the neceffity and duty they are under to preferve a well regulated *temper*, as well as conduct.

From what has been faid of the effects produced on the fanguiferous fyftem in general, and on peculiar organs of the body by the force of Anger, it appears highly proper that females particularly, and more efpecially those who are breeding, refift every circumstance which tends to excite it; fince not only uterine hœmorrhages, but fatal miscarriages, may succeed its operation.

Having already mentioned, that profufe evacuations of bile are fometimes occafioned by this paffion, it may be unneceffary to obferve, that perfons who have been afflicted with cholera morbus, fhould carefully avoid every incentive to Anger. It will, however, be proper to recommend this caution caution to those who have been afflicted with jaundice, especially if it have arisen from gall-stones. These concretions, it is well known, may remain in the gall bladder many years, or during the whole life of a perfon, without occasioning jaundice ; should any caufe, however, change their polition fo as to obstruct the common channel of the bile into the intestines, this difease will be produced. The caufes which are most likely to occasion fuch an effect, are those which promote exertions of body; hence Anger, as it confiderably agitates the whole frame, hath fometimes induced jaundice.

Notwithstanding the pernicious tendency of this paffion in general, its operation having been thought useful in a few instances, it hath been recommended as a remedy : in cafes where the power of voluntary motion has been for fome time fufpended, or greatly diminished, it hath occasioned at least a temporary renovation. We have it recorded, for example, of one afflicted with palfy three years, who became fo incenfed on hearing the enemy was at hand, that he immediately leaped from his bed, and joined 12 his

his fellow citizens. I myfelf knew a paralytic of a very irafcible temper, who, notwithstanding he was obliged to fupport himfelf by a crutch, and his fpeech was much impaired by the difeafe, would, when roufed by Anger, fpring from his chair without affistance, and exert his limbs and voice for the time, as well to appearance as a perfon in health. I might here, perhaps, with equal propriety, mention another inftance of the force of Anger which has come to my knowledge, in the cafe of a perfon who is now living-A gentleman, who has a very great hefitation in his fpeech, whenever any circumstance excites his Anger or refentment, he articulates rapidly and perfectly.

By the operation of this paffion, fits of the gout are faid to have been fometimes removed; they have, however, I apprehend, been oftener brought on, and rendered more fevere by it.

VINC DECE TROUGHERS TO

Intermittent fevers alfo, or agues as they are commonly called, of a very obstinate nature, are faid to have been removed by the power power of Anger. If, indeed, juft before the acceffion of the febrile paroxyfm, we could excite an high degree of this paffion, it might perhaps fhorten the duration of the cold ftage, and by inducing the hot and fweating ftages, occafion a folution of the difeafe.

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The ancients feem to have confidered Anger as a remedy on the fame principle they supposed a fever to be falutary; viz. by caufing a concoction or refolution of vifcid humours, or by difperfing on the furface of the body those noxious matters which it had imbibed : hence it hath been imagined, that the employment of Anger would be useful, by enabling nature to expel the matter of small-pox, meafles, eryfipelas, and other eruptive difeases, from the internal and vital organs of the body. Experience, however, has taught us, that in those diforders, as they occur in this country, fuch treatment would be highly injurious-placidity and calmness of Mind being almost the first requifite to their happy termination.

Since all the examples hitherto recorded of the efficacy of Anger as a remedy, do not counterbalance the injurious tendency of it, we are, I think, by no means authorized to employ it: befides, it is extremely uncertain, that the falutary effects enumerated would be produced by its operation; and if they were,—their permanence would in general be but fhort. In most cafes, the difeafes fo fuddenly removed, return after the passion hath fubfided, attended oftentimes by a greater debility than before. This was always the confequence of Anger in the paralytic I have mentioned.

Hippocrates, who has been quoted by modern writers as an authority for employing this paffion in the removal of difeafes, gives us, I think, a fufficient *caution*, when he fays, that it is a remedy for perfons of *cold conflitutions*. In those, indeed, I apprehend its operation would be perfectly fase; but as their nervous fystem is not disposed to be much affected by passions of any kind, I fear we should lose this remedy, from our inablility to excite it in a fufficient degree. I must therefore conclude, that the employment of Anger in the cure of diseases will be either hazardous, or useles.

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#### Of Fear.

THIS paffion of the Mind is for the most part injurious to the animal œconomy, and the force of its impressions differ, according to the mode by which it is excited.

When the caufes of Fear gradually arife, the Mind having time to reflect, their operation is weakened, and timidity only is produced: but when those caufes are *fuddenly* presented, and especially, if they have a reference to *immediate perfonal fasety*, the Mind is usually actuated by terror. I shall, therefore, treat of the present subject under two heads—Timidity and Terror, confining my observations chiefly to the latter, as this degree of Fear hath occasionally been employed in the cure of particular difeases.

1st. Timidity. Although the human Mind, as hath already been observed, be difposed to cherish hope, yet Fearfulness also is a propenfity of nature, which fometimes interpofes, fo as either to take from our prefent enjoyments, or prevent our future, by repreffing those exertions which are neceffary to attainment. In fome perfons this propenfity is unhappily fo prevalent, that occurrences apparently of little or no importance are fufficient to derange the healthy operations of the body; hence they become difordered by caufes which make no impression on others, and are more confiderably affected by those, to which all are liable. In confequence, therefore, of this difpolition of Mind, not only morbid caufes with more certainty take effect, but difeafes themfelves are rendered dangerous. The truth of this latter polition, experience has more than once confirmed in patients who, on the attack of fever, entertained the most fearful apprehensions of danger. In fuch, when that Timidity could neither be removed, nor diminished, the difease hath terminated fatally, although in the first stages of

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it no fymptoms appeared, which could alarm.

I confider it, therefore, a very unfavourable circumftance, when a patient labouring under fever, or any other acute difeafe, entertains a ftrong apprehension of death : on these occasions, not only the usual remedies must be employed, but the ftrongest affurances of fafety.

It would be fuperfluous to extract from the works of medical writers, those teftimonies which might confirm what I have advanced, fince every practitioner of experience and obfervation must, I apprehend, be convinced of its truth. I cannot, however, refrain from mentioning a cafe, which, in the early part of my studies, very forcibly struck me, as an instance of mental influence on the body. A man about forty years of age, of an athletic make, and enjoying good general health, was taken into Guy's Hofpital for a fwelling in the middle of his left leg, near the tibia, which had come gradually on, and at length prevented his following bufinefs. He could not account

count for his complaint, but fuppofed that it must have arisen from some exertion in his occupation, which, I think, was that of a porter or coal-heaver. On examination, the fwelling was judged to proceed from an aneurism, and after some little time the operation for that difease was performed: the bone, however, being found carious, and ligatures on the veffels ufelefs, it was propofed to amputate immediately above the knee, to which the man readily confentedobserving at the same time, that he feared he should die, whether the limb were removed, or not. During the operation there was no uncommon effusion of blood; he was put to bed, flept well; his pulfe on the next day was good, the heat of his body not much increased, and every favourable fymptom appeared. He was of course told, that he would do well; to this he shook his head; expressed much thankfulness for the care that had been taken of him, and concluded by faying, that he was certain he should die. Every favourable circumstance of body appeared to continue for feveral days; he readily took the medicines prefcribed, and plentifully of nourifhment; the discharge from the thigh was moderate : but but the fame apprehension of death continued, and he gradually funk away.

The paffion of Fear, taken in the general fense, as comprehending both timidity and terror, feems to injure health by primarily weakening the energy of the brain; hence a debility of the body is induced, which gives a predifposition to many difeafes, and to none more readily than to those of an epidemic \* and contagious nature. It hath accordingly been remarked by ancient and modern writers, who were witneffes to the ravages of plague, that perfons awed by fear or dread of the difeafe, were the first who received the contagion, and fell victims to it. This effect was indeed fo obvious, that the occurrence of Fear hath been confidered as one of the most unpropitious omens in perfons exposed to, or affected by the contagion. Such a tendency of Fear, therefore, could not escape the notice of a philosopher and a poet, who in defcribing the plague at Athens, speaks of it very pathetically, in the following lines :

\* In morbis epidemicis cos eum primis offici videmus quos metus male habebat. Pechlin. obfervat. Illud

#### Illud in his rebus miferandum, et magnopere unum Ærumnabile erat, quod ubi fe quifque videbat Implicitum morbo, morti damnatus ut effet, Deficiens animo, mæfto cum corde jacebat Funera refpectans, animam et mittebat ibidem. Lucretius.

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When epidemic or contagious diforders prevail in this country, it is generally found, that those whose minds are depressed by the Fear of them, feldom escape their attack. The difease of the small pox may be cited as an inftance; perfons arrived at the age of puberty, who have escaped it, are apt to entertain the most depressive apprehensions of infection. Hence it has happened, that fuch accidentally entering an houfe where one lay ill of fmall pox, have immediately fickened, on being informed of the circumstance ; although they had oftentimes, without knowing it, been exposed to the fame contagion. When this occurs, the difeafe is generally of the confluent kind, and ufually terminates fatally.

2dly. Terror. As this term implies only an extreme or fuperlative degree of Fear, we naturally infer, that as Timidity weakens,

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or diminishes the action of the brain; Terror must neceflarily produce a fimilar, though greater effect. This, however, it would *feem*, is not always the cafe; for notwithstanding the more usual and final effects of Terror are debility and languor, yet it fometimes happens that the opposite take place, when the Mind *appears* to be under its influence. I am lead, therefore, to confider the more common operations of Terror, before I speak of those which are but rare, and which, perhaps, happen only in peculiar conflitutions.

On the first impulse of Terror, the heart feems to undergo a momentary sufpension of its action, to which succeeds palpitation, and an irregular and hurried respiration. These effects are accompanied by a trembling and coldness of the body, paleness of the face, hesitation, or a total loss of the power of speech, and oftentimes by an effustion of success.

- Ubi vehementi magis est percussa metu mens, Confentire animam totam per membra videmus; Sudores itaque, et pallorem existere toto

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Corpore, et infringi linguam, vocemque aboriri, Caligare oculos, fonere aures, fuccidere artus. Lucretius.

I was once present during a very powerful operation of Terror. A gentleman, having difmiffed a fervant of an implacable difpofition, was alarmed in the middle of the night by an attempt on his house. His wife, who had been always apprehensive of the villainous principles of this fervant, was fo terrified, that fhe started from bed, and, without speaking, laid hold of the curtain for fupport, being feized with a fhivering the most violent I had ever seen. Her appearance was lifelefs, her face and extremities cold and pale, and fcarcely any pulfe could be felt. These circumstances continued for fome time, after the had been placed in bed, and the fame effects enfued as ufually occur in the paroxyfm of an intermittent fever. A very confiderable degree of heat fucceeded the cold fit, and lasted for fome hours, attended by reftlessness, until a fweat arofe; foon after which she flept, and awoke in a state of calmness; but under a debility, of of which fhe did not recover for many days.

The natural functions are fometimes fo influenced by the power of Terror, that vomitings, diarrhœa, and a profuse discharge of urine, have been occasioned by it. These effects happen, not unfrequently, in armies and navies to recruits, or men inexperienced in the fervice, when the prospect of immediate action presents.

Similar operations are produced by Terror, even on the brute creation, and are noticed particularly in dogs, when they fee the impending whip.

A circumftance has lately occurred, which, perhaps, not only fhews the ftrong influence of Fear on the urinary organs, but alfo on the abforbent fyftem. A perfon about fifty-five years of age, who had been ill nearly two years, requefted my opinion on the nature of her diforder. I found it to be an afcites, or dropfy of the belly, and as the general ftate of the body appeared healthy, I gave my opinion, and at the fame time

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time my folicitations for her confent to the operation of tapping; after which fhe might expect advantage from medicines. This patient, who entertained very dreadful apprehenfions of the operation, confented to my propofal, with a refolution not often met with. On the next day Mr. Atwood, an eminent furgeon at Bath, went with me to know if the continued in the fame refotion, and to appoint a day for the fame. She was very glad to fee us, being in high fpisits, as she had made, soon after I left her the day before, and during the night, no inconfiderable quantity of pale urine; from which circumstance she supposed that her diforder would be removed without our affiftance. The diftance of two or three days, however, was appointed for the operation, as I confidered the difcharge of urine produced merely by the influence of Fear. Upon any other fupposition, I think, it cannot be accounted for, fince in the courfe of twenty-four hours not more than a large tea-cupful of water had feldom been evacuated for many weeks, and no medicine whatever had been taken feveral days previous to my vifit. The refult of this cafe can L

be of no confequence to the fubject we are upon, and I have introduced the circumftance only to fhew the power of Fear. It may not, however, be amifs to fay, that two gallons and five pints of water were drawn off by tapping, and that the patient, at this time, viz. three months from the operation, enjoys better health than for fome years before. This, indeed, I think neceffary to mention, as an encouragement to thofe who may labour under the fame malady.

Having thus much advanced on the general proposition, that debility is induced by Terror, I proceed to confider the oppofite effects which are faid to be occasioned by it.

It hath fometimes happened that perfons whofe lives or property were in imminent danger, have fhewn moft furprifing exertions, as in alarms of fire, by burfting doors, or carrying heavy pieces of furniture, which their common ftrength could never accomplifh. Such inftances have, therefore, fore, been adduced, as examples of the invigorating power of Terror.

Those exertions, however, I cannot fuppose to arise from the *immediate* effect of Terror; I shall confequently attempt to explain, why debility in some, and strength in others, are *apparently* occasioned by it.

There is certainly a diverfity in the mental, as well as in the corporeal conftitution; for the impreffion of an idea made with equal, or even *lefs* force on the Mind of one perfon, than on that of another, may be retained longer by the former, than by the latter, and thereby retard, or prevent the occurrence of a new one. Hence the idea of danger, which excites Terror, fo forcibly feizes the minds of many, as to prevent the intrufion of an idea of fafety; fo that the *defire of efcaping* is either totally fuppreffed, or confiderably weakened: fuch perfons, therefore, neceffarily fink under the operation of Fear.

On the contrary, an idea of danger, though fufficient to produce the utmost L2 alarm, for a moment, giving way to the hope of fafety, whereby the ftrongest defire to escape will be excited, and confequently those corporeal exertions occasioned, which seem to arise from the immediate influence of Terror. I am lead, therefore, to imagine that the increase of strength observed sometimes to supervene its operation, is produced in most cases by a strong desire to escape the evil which impends. It is in this way, I apprehend, diseases of debility are removed apparently by Terror: for the passion of defire, whatever may be its object, is most certainly a very powerful stimulant and tonic.

The real operation of Fear, therefore, taken in the general fenfe already mentioned, I confider as fedative and depreffing; from which alone we may account for the intrufion of those diforders that are known to fucceed it.

Notwithstanding the many examples of the injurious tendency of Fear, it has more than any other affection been recommended

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as a remedy in particular difeases. Before the use of bark it was employed in the cure of intermittent fevers, by means of those devices which are most likely to excite it; as by hanging toads round the neck, or exposing the patient to other objects of dread, which, though perhaps harmless in themselves, were deemed highly pernicious. The cure of epilepfy alfo has been attempted by the excitement of Fear, and hath been particularly noticed as a remedy in preventing the return of epileptic paroxyfms; a memorable example of its effect having occurred in the Orphan-houfe at Harlem, under the eye of the celebrated Boerhaave. As the circumstance alluded to, is, perhaps, unknown to fome who may peruse this Effay, the medical reader will overlook the infertion of it.

A child in the Orphan-houfe at Harlem was, from fome unknown caufe, feized with epilepfy, and on the frequent repetition of its paroxyfm, other children fympathifed, fo that at length almost the whole ward were rendered epileptic. The attendant physicians being difappointed in all their

their attempts to ftop the difeafe, it became fo alarming, that Boerhaave was fent for. Finding that the usual remedies had been employed, he proposed to have recourse to the operation of Fear: for this purpose the children were ordered to be affembled in a room, where burning cauldrons, with a number of cauterizing irons, had been placed. With much folemnity, of course, he then addressed them; and concluded by faying, that the only remedy for their complaint was a red bot iron. He accordingly proposed to his brethren who were prefent on the occasion, that the first patient feized with a fit, fhould inftantly be burnt to the bone with one of the irons preparing in the fire. This proceeding had fuch an effect, that the difease was immediately checked, and its progrefs prevented.

Not many years fince, an epileptic boy in the Infirmary of Edinburgh was cured, I have been informed, by the fight of one of the foldiers upon guard, prefented as an object of Fear. Other convulfive diforders have fometimes been removed by this paffion, as the hiccup and hooping-cough. For For the cure of the latter, Dr. Willis, who wrote De Anima Brutorum, used to put young children into a mill-hopper, which, in his day, was a common, and fometimes a fuccefsful remedy. \*

By the operation alfo of Fear, paroxyfms of gout are faid to have been removed, which, we can readily fuppofe, if the difeafe be admitted as an affection of the nervous fyftem. That this is the cafe, Dr. Cullen hath maintained, fince almost all the occasional or exciting causes of the gout act directly upon that fyftem.

These and similar instances related of the removal or prevention of diforders by the operation of that Fear which constitutes Terror, lead some to attribute its effects to a tonic power : but as Terror is only a very high degree of Fear, I cannot assert to

\* Cum medicamenta minus efficiunt, apud vulgus in praxi familiari eft, ut pro torriculamento, dum molendinum ingens cum ftridore, et rotarum afpectu horribili circum agitur, affectus grani five frumenti receptaculo imponatur, indeque morbi hujus fubito curatio nonnunquam contingit.

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fuch an opinion; fince it is repugnant to philofophy to fuppofe, that the increafed force of an agent can occafion any other than an increafe of its effect. Upon other principles, therefore, I fhall endeavour to account for the fuccefs which hath fometimes been derived from the influence of Fear.

It is well known, that intermittent fevers will recur periodically for many months after the exciting caufe hath been removed, and without the interpofition of any other with which we are acquainted. The epilepfy alfo, and other convulfive diforders, and affections of the nervous fyftem, frequently return without any apparent caufe. Hence one would infer, that the renewal of their feveral paroxyfms is often induced by the force of habit, independently of other caufes. Whatever, therefore, just before the recurrence of these diseases, affect in any confiderable degree the brain or nervous fystem, whether it be of a debilitating or ftrengthening nature, may equally interrupt this babit, and thereby prevent their attack. But, it is farther

ther probable, that the return of fuch diforders is prevented by that attention of the Mind, which Terror inforces. In this, as well as in every other ftrong emotion or paffion, the Mind is wholly engaged by the object which excites it. Could Boerhaave, therefore, in the inftance recited, have fo fully engaged the attention of his young patients, by other means than those he employed, I can readily fuppofe that the fame good effect would have enfued : for as attention of the mind diminishes sensibility of body, it is probable that the exciting caufes of epilepfy, and of other diforders alfo, may in confequence fail in their operation. However this may be, there are, I apprehend, few difeases in which extreme Fear, or Terror, can be employed with advantage or fafety.

In cafes of infanity, this paffion is obvioufly ufeful, as by its influence the moft furious maniacs are often quieted. Hence phyficians who attend fuch patients, derive their confequence and afcendency, in proportion as they are able to excite dread. We accordingly obferve the rage and obfti-

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nacy ufually prevalent with mad people, generally fubfide on the appearance of their phyfician or keeper, fo that from thefe they readily take medicines, which they would not from the hands of others. In mania, therefore, Fear may always be employed with fafety, and often with at leaft temporary advantage.

There is, perhaps, another cafe in which it might be ufeful; in fuppreffion of urine, when occafioned by fpafm in those organs which fecrete or transmit it. As, however, this particular cause of the complaint cannot be afcertained, its application must be either equivocal or hazardous. The operation of Fear in the cure of diseases is, indeed, in all cases, fo uncertain, that it ought, perhaps, to be laid as a remedy, unless it could be employed with an address and caution, which require a very great exertion of the human intellect.

In the prefent day, medical refources are fufficiently numerous to preclude the adventitious aid of terrific caufes; and as the general tendency of Fear is injurious, I should fhould think it prudent to exclude it entirely from the clafs of remedies, fince we can neither direct nor reftrain its operation.

As, however, in particular difeafes, and under some peculiar circumstances, Fear hath been found useful, it is not improbable that practitioners, to whom opportunities have afforded but little experience, may be led to an indifcriminate or hafty trial of it, when their patience hath been exhaufted, and their hopes frustrated, by the unfuccefful employment of medicines : those, therefore, it may not be improper to caution, by inferting the following from Pechlin; "Febres plurimas quas remediis vul-" gatis frustra sollicitari vidimus, terror non-" nunquam fanavit. Qua occasione, invi-" tati nonnulli methodum per terrorem cu-" randi jactare ausi sunt non perinde felici " fuccessu, quod ad temperamentorum in-" dividua justamque sanguinis et fluidorum " proportionem paucifimis penetrare da-" tum est. Rustica sanè est et semibarbara " methodus, magno etiam periculo con-" juncta terrorem, quem ipsi moderari et " fingulorum temperiei ex æquo accom-M 2 " modare "modare non poffumus, in claffe juvantium reponere et qu'od fortuito accidit, velut ab arte profectum admirari."

Before I conclude the prefent fubject, I think it neceffary to obferve, that as Fear is a debilitating paffion, and a difpofition to it may be either conflictutionally formed or acquired from circumftances which occur in early life, every parent fhould guard againft impreffions made on the minds of children, by the narration of thofe filly and terrific ftories which haunt a nurfery. For although in maturer years the abfurdity of them will be fufficiently obvious, yet their operation during the tender periods of life may, perhaps, fo far affect the nervous fyftem, as to render it liable in future to be ftrongly imprefied by trivial caufes.

CHAP.

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#### CHAP. IX.

### Of Grief.

THIS paffion of the Mind, from whatever caufe it may arife, is extremely depressive in its operation on the body. The action of the heart is fo much weakened by it, that the blood is not fufficiently propelled to the extreme veffels : hence a fettled paleness in the face is observed in those who have been long distressed by Grief.

It is difficult to particularize those diforders, or deviations from health, to which this emotion disposes the system, and, indeed, it would be unnecessary; for as its tendency is *depressive* in the *extreme*, it must be inferred that any of them may arife, which have been occasioned by the mental causes of debility already noticed. Various affec-

affections of the stomach, however, are complaints which generally first happen; as lofs of appetite, nausea, a sense of weight and fulnefs, &c. &c. accompanied frequently by a bitter or ill tafte in the mouth, and by either coffiveness or diarrhoea; difturbed fleep alfo, and a diminution of perfpiration and urine, are generally attendant circumftances. The body in confequence becomes emaciated and feeble, and the most beautiful countenance of youth is exchanged for the meagre vifage of age; the eyes appear retracted within their orbits, the nofe fharpened, and the features fhrunk away. As the force of circulation is confiderably weakened by the influence of this emotion, congestions and obstructions in the abdomidal vifcera are particularly liable to fucceed its operation. Hence perfons afflicted by Grief are often carried off by dropfy, or by a gradual decay.

Among the variety of caufes which occafion Grief, there is one which makes an imprefion on fome minds that can never be erafed, viz. a feparation from friends and country. When this happens, the most obftinate ffinate bodily complaints enfue, fuch, indeed, as cannot be removed by the power of medicines.

This caufe of Grief hath been particularly noticed in the inhabitants of Switzerland, whofe attachment to the *natale folun* is fo confiderable, that foldiers removed even from the Canton in which they were bred to an adjoining one of the fame climate, have become fo dejected, that they either died, or loft their health and ftrength, fo as to be unfit for fervice. In thefe, medicine was of no avail, and they recovered merely by returning to the diffrict from whence they came.

Similar inftances have happened in other countries, one of which occurring lately in our own, I fhall infert, as a fequel to the prefent chapter :

Dr. Hamilton, of Ipfwich, gives the following relation—In the year 1781, while I lay in barracks at Tinmouth, a recruit, who had lately joined the regiment, was returned in the fick lift, with a meffage

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from his captain, requefting I would take him into the hofpital. He had only been a few months a foldier, was young, handfome, and well made for the fervice; but a melancholy hung over his countenance, and wannefs preyed on his cheeks. He complained of univerfal weaknefs, but no fixed pain; a noife in his ears, and giddinefs of his head. Pulfe rather flow than frequent, but fmall and eafily compreffible. His appetite was much impaired. His tongue was fufficiently moift, and his belly regular; yet he flept ill, and ftarted fuddenly out of his fleep with uneafy dreams. He had little or no thirft.

As there were little obvious fymptoms of fever, I did not well know what to make of the cafe. I fufpected he might be under an incipient typhus, and ordered what I judged neceffary to obviate it. Some weeks paffed with little alteration, either for better or worfe, excepting that he was evidently become more meagre. He fcarcely took any nourifhment, yet had hitherto fat up out of bed fome hours every day. At length he became indolent; feldom fat up

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at all, was conftantly dofing, yet his fleep was never fo found but he could answer when fpoken to; he fighed deeply and frequently, nor could his attention be directed to any external object. Something, it would feem, hung heavy on his mind. He never had any cough ; yet fince he came into the house had wasted away confiderably. Exercife was recommended, and used as far as he could be roufed to take it, which was never without reluctance. He was put on a course of strengthening medicines; wine was allowed him : all proved ineffectual. His pulse had changed with his appearance, and was now finall and quick; an evident fever of the hectic kind, as it feemed, with an evening exacerbation, took place. He had now been in the hospital near three months, was quite emaciated, and like one in the last stage of a confumption. His eyes were grown hollow, cheeks prominent, nails incurvated; adnata pellucid; and he was fo weak in his limbs, that he could neither get in or out of bed without help; of late alfo, he had night fweats. In fhort, I looked on him as loft.

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### On making my morning vifit, and inquiring as ufual of his reft at the nurfe, fhe happened to mention the ftrong notions he had got in his head, fhe faid, of home, and of his friends. What he was able to fpeak was conftantly on this topic. This I had never heard of before. The reafon fhe gave for not mentioning it, was, that it appeared to her to be the common ravings of ficknefs and delirium. He had talked in the fame ftyle, it feems, lefs or more, ever fince he came inro the hofpital.

I went immediately up to him, and introduced the fubject; and from the alacrity with which he refumed it, (yet with a deep figh, when he mentioned his never more being able to fee his friends) I found it a theme which much affected him. He afked me with earneftnefs if I would let him go home. I pointed out to him how unfit he was from his weaknefs to undertake fuch a journey (he was a Welchman) till once he was better; but promifed him affuredly, without farther hefitation, that as foon as he was able he fhould have fix weeks to go home. He revived at the very thoughts thoughts of it. At this time, however, I made a promife which I knew it was not in my power to perform, without the confent of the commanding officer, who alone can grant furloughs; but as my hopes of his recovery were very flender, my rafh promife could give me the lefs uneafinefs; and my fcheme was to animate his hopes, and endeavour thus to take advantage of the change that his Mind might undergo by it, to cooperate with me in removing, if poffible, the malady.

It feems he had requefted leave to vifit his native place foon after he joined; but being only a recruit, and but a few months from thence, he was refufed. This had hung on his fpirits ever fince; and from thence I now dated the origin of his illnefs. I intreated him to take food to ftrengthen him for his journey; and as foon as he was able to go out into the open air a little every forenoon, when the weather would permit, that he might be the fooner able to go home. He liftened eagerly to every word I faid. In fhort, his appetite foon mended, and I faw in lefs than a week, evident figns

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of

of recovery. He was now lively, though fo weak that he could not get in or out of bed without affiftance; he ftrove to fit up; two men took him between them in the heat of the day, and placed him on a feat they had erected for him on the beach, where he had a view of the fhipping, for it was on the fea-coaft. In a little time he was able to walk. Every vifit I paid him he refumed the fubject of *the furlough*; which I perfifted in promifing, feeing the good effects it had already produced; and in lefs than two months from the time he had received this promife, he was able to leave the hofpital and go to his barrack room.

I fet my felf about endeavouring, as far as in me lay, to accomplifh my promife; for he paid me almost daily visits, affuring me he was able to undertake his journey, if I would allow him, for he firmly relied on my word. I was in fome dilemma now how to act; yet his ftory was already known throughout the regiment, and the escape he had from imminent death. The deception, however, if I had dropped it here, was tenderness, and a regard for his recovery; but

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but I went farther : I made public to all the officers the method I fell on to recover him; and told them, moreover, that if I did not fucceed in obtaining a furlough, I was fure he would relapfe, as foon as he underftood his expectations were to be fruftrated. I won them over to my intereft. The ftory was publicly talked of. The commanding officer was likewife acquainted with it; and the requeft was now made to him, which he obligingly granted.

· CHAP.

### [ 94 ]

#### СНАР. Х.

# Of Anxiety.

THIS paffion appears to be of a mixed nature, and feems to arife from the alternate operation of Hope and Fear. The circumstances which may occasion it are various; but refer in general to the common concerns of life. There is, however, a certain state, dependent on the acquisition of wealth, to which mankind have affixed the term Profperity, and which hath confequently engaged their more particular attention : hence the poffession of riches hath been confidered as the chief fource of happinefs. When this opinion prevails, the Mind must be often agitated by confiderable Anxiety; fince riches are acquired by uncertain efforts, and numerous competitors occupy the fame avenues in purfuit of them. The

The pursuit, indeed, after any object which we deem neceffary to our happiness or welfare, must be attended with some Anxiety.

This passion, therefore, is in some meafure natural to every individual, and a propenfity to it is, perhaps, given to the human Mind, for the purposes of felf-prefervation and public good. Anxiety for perfonal welfare prompts us to the means of acquiring it, and a folicitude for honourable fame leads to actions of public utility. The mind is, however, fometimes preternaturally anxious, or, in other words, anxious over-much : this generally arifes from a depravity of judgement, which disposes men to place either too high a value on what they have never posseffed, or too weak a confidence in their prefent enjoyments. In the latter cafe they are often uneafy, lest some unforeseen incident should interrupt their tranquillity : fuch, therefore, diminish their present happiness, by entertaining apprehensions for its continuance. An Anxiety of this kind is, in fome instances, fo confiderable, that perfons whose fituations in life afford the most ample means

of enjoying it, become truly miferable by anticipating the poffibility of a change.

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There is, however, a fource of Anxiety, of all others the most insuperable, as it proceeds from thoughts which relate to a future state of existence. This may be termed *religious Anxiety*, and is not unfrequently excited in perfons of weak minds, by enthusiastic teachers of religious duties. A melancholy circumstance having happened within my own knowledge, in confequence of fuch Anxiety, I shall in fertit.

About fifteen years ago, a man in the neighbourhood of Fleet-ftreet, of a very religious difpofition, and perpetually anxious to infure a ftate of happinefs in a future world, was found in a very fhocking and daugerous fituation. He had been attending to the difcourfe of a very popular preacher on the fubject of libidinous enjoyments, and from the imprefion it made upon his Mind, he returned home with a full refolution to eradicate what only, as he fuppofed, could occafion a paffion for them. He accordingly attempted caftration, and would have completed his defign, had not the pain and faintnefs occafioned by the operation, forced him to relinquifh it. The late Mr. Crowther, who at that time lived in Bofwellcourt, was employed in this cafe as furgeon.

In perfons who labour under a ftate of Anxiety, the appetite for food is uncertain, and the pulfe irregular; being at one time flow, at another quick, and, in general, feeble. Sleep alfo is frequently interrupted by incubus, or frightful dreams. Thefe irregularities, more or lefs, prevail according to the light and fhade, which brighten or cloud their profpect.

Those of anxious dispositions may, notwithstanding, pass many years without fuffering any subsequent bodily infirmity: at length, however, their nervous system is so impaired by reiterated counteraction of Hope and Fear, which constitute the passion we treat of, that the whole body becomes relaxed, and liable to any of those disorders to which debility predisposes.

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Of the feveral organs which may be injured by the long continuance of this paffion, the brain, as being primarily affected, is the first that in general gives way. This appears from a failure of memory, which ufually enfues, and from a diffrust and doubt the mind frequently entertains of the most common facts; hence fatuity or mania are the more frequent confequences of obftinate Anxiety.

It is incumbent, therefore, on every individual, in whom an anxious propenfity is confiderable, to oppose it as much as poffible, fince it is, perhaps, more prone to increase by indulgence than any of the paffions we have mentioned. For this purpofe we should endeavour by every means to divert the Mind from those particular thoughts which ufually excite it. Hence the fludy of natural philosophy, or of the arts, or any other subjects, whether of amusement or profit, may be of the highest importance; as it is certain that where mental refources have been fewest, the paffion of Anxiety hath prevailed the moft. It accordingly happens, that perfons who have withwithdrawn themfelves from the buftle of public life to which they have been long accuftomed, and efpecially if they give up fociety, which is often the confequence, under a notion of eafe and tranquillity, are more particularly liable to the intrufion of it. For fuch is the conflictution of our nature, that the Mind left to the fociety of itfelf, foon deftroys its own powers, and every faculty of enjoyment. The dulce otium, therefore, fo often defcanted upon, and which hath been the darling theme of men of bufinefs, as well as of poets, frequently proves a very confiderable fource of human difquietude.

There is, perhaps, nothing better calculated to relieve the anxious Mind, than mufic; and there are few perfons, if any, totally infenfible to its charms. We can readily, therefore, acquiefce in the wellknown fentiment of Shakefpeare,\* fince we

The man that hath no mufic in himfelf,
Nor is not mov'd with concord of fweet founds,
Is fit for treafons, ftratagems, and fpoils;
O 2

we apprehend that the infenfibility or indifference to mufic which hath been fuppofed to exift, arifes only from the nature of its composition, as not according with peculiar difpositions. Every individual, I doubt not, will be affected by tones of fome kind, and it matters not whether the mind be pleafed with the notes of a bagpipe, or the melody of a flute. That ftyle of mufic, therefore, which is adapted to the disposition or tafte of perfons, will, no doubt, be useful in mitigating prefent cares, and confequently in preferving health.

The ancients entertained fo high an opinion of the falutary influence of mufic, that they have recommended it as a remedy in difeafes : inftances are accordingly related of its efficacy in the removal of gout and epilepfy, and in the cure of fevers, even of a peftilential nature.

That mufic may be useful in alleviating the fymptoms of particular difeases, and

> The motions of his fpirit are dull as night, And his affections dark as Erebus : Let no fuch man be trufted. Merchant of Venice.

> > thereby

thereby remotely tend to reftore health, is very probable, provided the composition be adapted to the nature of the complaint, and employed in a proper stage of it. For exexample: the more solemn compositions being calculated to depress the Mind, and thereby weaken the energy of the brain, may be useful in inflammatory diforders, by restraining that impetus of circulation which supports them, or by inducing fleep.

On the other hand; in chronic cafes, and in low fevers, the lively ftrains of mufic may be of advantage, if judicioufly employed, as they exhilarate the Mind, and thereby invigorate the action of the nervous and arterial fyftems.

But whether the efficacy of mufic in the cure of difeafes be admitted or not, we muft recommend it in the prefervation of health ; as it tends either to animate hope, or reprefs the turbulence of paffion.

- "On every ftring foft breathing raptures dwell, "To foothe the throbbings of the troubl'd breaft;
- "Whofe magic voice can bid the tides of paffion "fwell,
  - " Or lull the raging form to reft."

To urge farther the neceffity of amufing the Mind, in order to obtain the full enjoyment of health, were needlefs, as experience only can convince those who entertain doubts on the fubject. To experience, therefore, we appeal for a confirmation of what hath, in general, been advanced in the present Effay; relying more on the feelings of nature, than on the deductions of reason.

FINIS.

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