A treatise on madness and suicide : with the modes of determining with precision mental affections, in a legal point of view, and containing objections to vomiting, opium, and other mal-practices, &c.; &c.; / by William Rowley.

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Tracts 189

TREATISE

Madness and Suicide,

WITH THE MODES OF DETERMINING WITH PRECISION

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MENTAL AFFECTIONS,

LEGAL POINT OF VIEW;

IN A

AND

CONTAINING OBJECTIONS,

Vomiting, Opium, and other Mal-Practices, E3c. E3c.

By WILLIAM ROWLEY, M. D.

Member of the University of Oxford, the Royal College of Physicians in London, Physician to the St. Mary-le-bone Infirmary; and Public Lecturer on the Theory and Practice of Medicine, excluding False Systems, &c. &c.

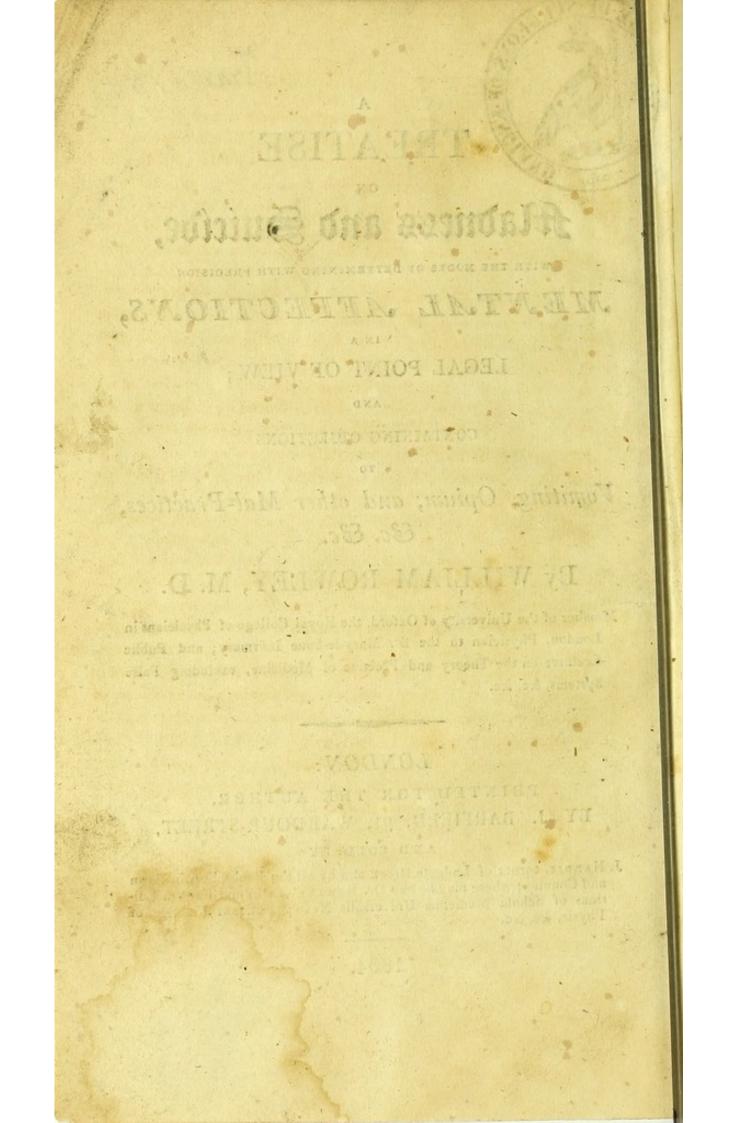
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1804.



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TC

VOL. II.

ON INSANITY, P. I.

MELANCHOLY or mania, general fymptoms of each fpecies of madnefs, — — —

- General notions about the caufes of madnefs, as black melancholic blood in the brain, fpleen, &c. General modes of treating madnefs, but not fcientifically confidered, nor very judicioufly treated. Practice in fome inftances contradictory. *Vomiting* and *diluting* bad practices-why.
- Many diffections of perfons after death, who, when living, were mad, fhew various injuries in the brain and its membranes, cavities, &c. Many inftances,
- Varicous veins, polypi, congestions, water in the ventricles of the brain, varices of the plexus choroides, pineal gland vitiated, worms, or rather polypi, in the finuses of the os frontis,
- Polypofe concretions in the finufes of the dura mater, various difeafed vifcera, uterus, ovaria, &c. more the effects than caufes of madnefs.
- What I have observed in diffections of mad perfons. Inferences from these appearances,
- Paffions of the mind force a great quantity of blood to the brain, which, if often repeated or long continued, caufe dilatations of veffels, and relaxation of vafcular coats in the brain. Inability of veins defitute of valves to reconvey the blood with a rapidity equal to any great differition. Sinufes, their ufes; but they likewife have been over-diffended.

Vol. II.

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Increased velocity of blood in the arteries, and its tardy circulation through the veins, occasion irritation in the pia mater, fimilar to the effects produced in the *tunica conjunctiva* of an inflamed eye.

The blood may thus become vitiated in the brain, occafion conftant irritation from acrimony, as in other local difeafes of membranes, and in the brain caufe confufed ideas,

- - Every one mad after his own particular mode. Pain or irritations of other parts conveyed to the brain; but in madnefs the brain perceives not its own indifpofition. Difference between *phrenitis acuta* and madnefs. Madnefs generally arifing from a flow and continued determination of blood to the brain, by meditating or moving the paffions to one fubject.
- The immediate connection of the foul with the body, or how they reciprocally act on each other, beyond the limits of human comprehension; but it is known that the nerves are the conductors of all our fensations from every part of the body. Nervous fystem acts, and is acted on by the mind. Irritations of the brain productive of convulsions, compressions, stupor, infensibility, and death. Human knowledge does not comprehend what the foul is, nor how it operates on the body by means of

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the brain and nerves, nor how the body acts on the foul; yet an industrious anatomical inquiry after death manifests the real causes or effects of madness and other difeases with greater certainty, than by any other means.

Many appearances from diffections after death in which de-

lirium or acute madnefs was a principal fymptom,

- The foul's power in extending mental or bodily powers by the will, not without commanding a greater quantity of blood to the brain. Thefe exertions render even the delicate fuprifingly ftrong and powerful.
- Stronger and *fublimer ideas* in the mind, or an increase of *bodily ftrength*, effects of the foul's exertion, —

Poetical fublimity, clear conception, penetration, judgment, a refined imagination, all the effects of mental, as the exercises of the *paleftra* are of bodily exertions. Overexertions of either the mind or body injurious, if long continued. Mankind differ in their different attractions for horfes, dogs, painting, the chace, &c.

- Whatever is the particular propenfity or purfuit denominated mental attraction. Mental attractions not always the effect of deliberate reason, but often of chance, caprice, example, &c. Mental attractions to improvements in sciences and activity recommended, and opposed to inactivity or apathy of soul. Active principles of the mind and passions productive of all that is laudable.
- Corporeal attractions exist in all nature as well as mental attractions. Proofs that the fat, lean, florid, pallid, all electively attract particles different from one another,
- The differences in mental and corporeal elective attractions, produce all the diverfity, both mental and corporeal, amongst human beings. Mifery not to be always afcer-

tained

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tained by the magnitude of the fuppofed evil, but by the fenfibility of the party afflicted. Sympathy in woe to be compaffionately proportioned more to the *feelings* of the fufferer than to the *caufe* of fufferings, _____

- The evident existence of mental and corporeal attractions within the comprehension of every observer; they are productive of identity, and distinguish one man from another. The necessity of medicine taking these attractions into confideration, and their utility in curing difeases by different modes, applied to different subjects, though not hitherto sufficiently attended to.
- Diet, foil, air, purfuits, and example, produce different attractions. The Dutch and French as diffimilar as the fnail and grafshopper. Caufes are attraction of fome particles in nutrition, and *repulsion* of others, &c. air, cuftoms, &c
- The origin of these attractionss, perhaps, in the animalcula, while in the uterus or its appendages, &c.
 - The reception, attraction, and retention, of certain particles give form of body. Mental attractions often dependant on the corporeal attractions. What conftitutes just reason, and what infanity or madness. Mental attractions to pride, arrogance, infolence, duplicity, falsehood, envy, and malevolence, fublimest refinements of little, difingenuous minds, how productive of madness.
 - Mental attractions to integrity, truth, ftrict juffice and fincerity, the ftrongeft marks of fuperlative wifdom, they give philosophical calmness either in prosperity or adversity.
 - Artifice opposed to artifice, hypocrify to hypocrify &c., in refined, polite ages; the books promulgating these doctrines reprehensible: they teach the vicious knavery, and render the upright fuspected. England, ac-

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cording to its fize, contains more mad perfons than any , other country,

The extended use of civil and religious liberty, in some measure, the cause. Infidelity in a wife or mistress rarely makes a Frenchmen cut his throat; but has caused fuicide amongst the English, &c. Remote causes of madness are anger, pride, and infolence mortified, malice and envy ungratified, merit crushed by the unworthy, love, fear, hope, disappointment, anxiety, grief, despondency, &c.; these produce idiopathic madness.

Suppressed evacuations and other accidents symptomatic.

- Immediate causes, diffections fhew to be accumulations or coagulations in the brain, of blood, ferum, &c.; how these produce madness to be confidered, though very difficult; for which reason a candid indulgence from the real learned is requested. The speculations and reasonings not delivered as indisputable truths, but as very probable conjectures, _____
- The brain has not been proved the fecreter of any fluid tranfmitted through the nerves under the appellations of nervous fluid, nervous juice, or animal fpirits, &c.
- No fluids could pass and repass with fuch rapidity as thought; action must be *direct* and *retrograde* at the fame moment, which is improbable. *Minute arterics* pass through the tela cellulofa and pia mater of all nerves. Where *minute pellucid arteries* pass, veins are fupposed, though these last cannot be demonstrated to clearly, owing to a coagulation of the contained fluids. The last *action* in *death* is to empty the arteries of blood, and *force it* into the veins,

Experiments to prove the nervous fluid exifting erroneous. Impeding the course of the blood the evident

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and *real* caufe of the effects produced by ligatures, &c. *Heat* refident in atterial blood, and preferved by arterial action. The deprivation of arterial action the deprivation of human or animal heat. Life and death, how afcertained by the prefence or abfence of arterial action and heat. Arterial action and heat ceafe to be perceptible, if the arterial blood and action be intercepted by a ligature on a nerve: all the parts below the ligature, dependant on the nerve, become torpid, cold, and infenfible; nor can they convey to the brain any fenfations from *ftimuli*. The interruption, therefore, of arterial blood one great caufe of infenfibility, independent of the comprefion of the medulla, &c., of the nerves.

- No nervous fluid has ever been proved to exist—a mere creature of the fancy. Animal heat and arterial action may hereafter be proved to be attracted from atmofpheric air,
- The regular or irregular distribution of what physiologists and physicians have called animal spirits, liquidum nervosum, nervous juice, or sluid, with all their wonderful effects, as related by medical authors, want proofs, inflead of mere affertions, to support the doctrines. The appellations, then, of nervous fluids, &c., fo common in all medical treatifes, are here excluded as non-entities, and the words nervous powers, nervous influence, or nervous principle, substituted. This, perhaps, useful to the fabricators of curious hypotheses on matter, spirit, and metaphysical subjects.
- Electric fire paffes in rapidity equal to the mind; but it is much doubted whether the electric fluid would be impeded in paffing through a nerve by a non-electric ligature: experiments prove the contrary. The nervous fluid fecreted by the brain acting as a gland; but perhaps particles of light attracted from the atmospheric air

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by the lungs in refpiration, &c., and conveyed by the arterial fystem to the brain, &c. *Vital heat* refides in the arteries and arterial blood. Mr. J. Hunter's idea of blood being alive not irrational, &c. Attractions confidered,

To know that all voluntary and involuntary fenfations and actions are conveyed by the nerves to and from the brain, is perhaps fufficient for medicine. Deprivations of the nerves and brain produce deprivation of fenfe. Contractions of muscles from the vis infita, no proof of fenfations being impressed on the mind after death. As no human being has yet undergone the trial of ligatures round the nerves leading to the heart during life, no juft conclusions can be drawn of what are the fenfations from fuch an experiment, as dogs have been the fubjects, who fhew tokens of great mifery, and die in a day or The heart certainly circulates the blood, but not two. to answer the purposes of life. Irritations of nerves produce covulfive action; but depression of the brain, or compression of nerves, infensibility, &c. The foul's action does not extend beyond the ligature round a large nerve in voluntary motion,

- Putrid changes produced in the blood irritate the brain, and occafion delirium; an increafed quantity of blood, ftupor or infenfibility. The regular powers of the foul refifted by accumulated or changed blood in the brain. All difeafes whatever are changes of the blood acting on the folids and nervous powers, and thefe latter on the fluids.
- Four conditions neceffary to the caufes of any difeafe prefent.
 I. Change of the blood, &c.;
 Irritation of the folids, &c.;
 Increafed or diminified action;
 Perceptibility of an univerfal or partial difeafe in the mind. Without imprefions of the mind, no difeafe would be felt or defcribed by the patient, nor comprehended

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hended by the phyfician. The foul not feparable from the body in a medical view,

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- If Stahl and his followers attributed too much to the foul's feelings, which they could not prove; yet the mechanical and other phyficians have equally erred in denying the foul any power or knowledge of the difeafes of the body. Experiments made to determine the foul's connection with the body. The mind or foul not definable but by obfervations on the oftenfible effects, operations, &c., in the body,
- The future man an inert mass in the ovulum before mafculine impregnation, &c. Impregnation shews the *punctum faliens*, how the embryo grows in the womb. While the foctus is in the uterus there is no reason to suppose it possibles any qualities of the foul that appear afterwards. On the foctus being excluded at the ninth month from the uterus, fome operations of the foul immediately appear after breathing and receiving the atmospheric air. The circulation of the blood changed, ______
- The air feems to contain the *pabulum vitæ* of rational life. In the infantile first months, very imperfect sketches of the foul's powers appear; afterward it gradually receives various impressions by no evident intuitive knowledge; but by the fenses, it imitates founds, &c. &c.
- Infantile impreffions operate through life for those who do not reflect or think for themselves.
- The foul, united with the body, collects ideas. The extent of human knowledge, in *different* men, exceedingly *different*.
- The operations of the foul begin and end with refpiration. The foul as fugitive as air; how it receives, retains, and increases in knowledge. The foul only *retains* what it is *tanght* or *invents*, and reflects, reasons, and judges

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only in proportion to the *number* and diverfity of ideas it has received or collected. Where there be *few* ideas, reflection, reafoning, and judgment proportionably confined: where they are *extenfive*, the foul views men and things extenfively. The inferiority or fuperiority of human understanding, generally depend on the paucity or multiplicity of ideas and just reafoning possible by the mind, ______

- The foul has powers to *impel* a greater quantity of blood to the head for either mental or bodily exertion : it can diminish or augment the heart's action by forrow or joy. Effects of music, &c. The foul can direct blood to the organs of generation, &c.
- Violent anger has ruptured the blood veffels of the brain. The foul an invifible agent or power acting in various modes on that animal matter called brain. The foul acquires firength and knowledge by the organs of fenfe, but not without human growth and human in-. duftry,
- The brain being the foul's principal receptacle, conveys, in health, the foul's intentions to the body by means of the diffribution of the nerves, &c. No perceptible nervous fluid admitted. The foul's influence pervades by its fubtility all parts, the conductor and governor of all its various feelings and actions, &c. All caufes equal to their effects. The brain being found, the foul's powers not impeded; but the brain being difeafed, the free exercifes of the foul are interrupted varioufly, which diffections demonstrate. A found underftanding, by difeafed brain, converted into madnefs, folly, &c.

The foul's action annulled, or its free influence obstructed, from affections of the medullary or cortical fubstance and mem-Vol. II. b branes branes of the brain ; from hence falle conceptions, reafoning, and judgment.

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- In the nervous parts, remote from the brain, irritability excited by vitiated, changed, and acrid blood, acting as *ftimuli*, and arterial action is increafed. Infenfibility or numbrefs produced by ligatures, pervert the regular influence or perception of the mind. What that invifible influence the foul is, must be beyond demonstration or human comprehension. It is refident in the brain or nervous fystem; and as these parts pervade all the body, the foul influences and perceives the molestation of every fensible part, — When the brain and its appendages are found, the animal

Caufes of madness,

1. A greater flow of blood to the brain than ufual from mental exertion, &c.; 2. The effects continuing by the exciting original caufes being repeated; 3. The minute capillary veffels fuffer a continual differition or retardation to a certain degree of the blood's flowing; 4. This produces a change in the blood; 5. The effects of the changed blood, and its increafed gravity; 6. Clear intellects depending on regular circulation and foundnefs of the brain, it may eafily be conceived why irritation, differition of veffels, or other caufes producing local heat, friction, &c. in the component parts, produce contrary effects, ——

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Anatomical inquiry, what it explains.

Phrenitis, an increased action of the folids from inflammation of the membranes, &c. Madness another species of delirium. Whatever determines a great quantity of blood to the brain may produce delirium, &c.

- Veffels once diftended, capable of re-diftention from the fame caufes being repeated. How the foul's powers have been perverted.
- What the foul is may never be difcovered; but the effects of evident difeafes point out the most rational modes of cure: this, perhaps, quite fufficient for human beings to know, &c.

Prognostics of Infanity.

Thefe drawn from a review of the appearances after death. -1. When recent, fometimes incurable, &c.; 2. From mental affections, not eafily curable; 3. Reducing the veffels diftended proves fuccefsful; 4. Acrimony being difcovered, may be often removed; 5. Preternatural accumulations in the brain generally incurable; 6. Bony exoftofes likewife; 7. Preternatural drynefs, or coagulation of fine ferous fluids, generally irremediable; 8. Indurated parts of the brain commonly incurable; 9. The florid eafier recover than the melancholic; 10. Hereditary madnefs, or the *cilo*, are irremediable in general; 11. So many difficulties to encounter, fhew why all medical efforts muft often prove fruitlefs.— Prognoftics drawn from confidering the flructure and office of the parts; the perverfenefs of many human beings in health, &c. —

Cure for Madness,

Caufes to be first confidered, and constitution of patients to which the cures must be adapted-florid, plethoric, palxi

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lid, debilitated, cachectical-the force of the difease,	
and temper of the patient—the domeftic management	
best known to the gentlemen most accustomed to receive the infane in houses appropriated to this purpose.	
If arifing from fuppreffed evacuations, menfes, hæmorrhoids,	
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If from obstructed lochia, or the milky mania, &c., fup-	04
preffed nafal hæmorrhage.	
In fullnefs, depletion of veffels, and abstinence from liquids,	
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Cure of madnefs from perturbation of mind, anger, pride,	
which commonly affumes great fupercilioufnefs and arro-	
gance, and pretends to mental or bodily qualities it fel-	
dom poffeffes. Pride in those not infane the concomi-	
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Envy, avarice, difappointed expectation, -	67
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A nice fense of honor, unjust perfecutions; medical anec-	
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If mankind have an opportunity of injuring one another,	
they rarely want the inclination, efpecially when felf-in-	
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Perfons most capable of gratifying rancor at the expence	
of honor or justice, are the haughty, proud, mean, and	
envious, &c. these are fworn enemies to all excellence	
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Remedies against malevolence are forbearance, a perse-	
verance in rectitude-integrity, difcernment, and refolu-	
tion, thefe are terrors to the proud, mifchievous, or defign-	
ing. The confcioufness of immorality, injustice, or	
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differition and relaxation of the coats, with *ftimuli* from acrid blood. Effects.

- Veffels fuffering differing from phlogifticated or dephlogifticated air. Arterial coats of the brain thinner and weaker than in other parts of the body, —
- Tonical differition, atonical differition different, and arifing from oppofite caufes; both capable of producing madnefs but require oppofite treatment. Illuftrated by true inflammatory and anafarcous tumors. The former accompanied with rednefs, pain, and heat; the latter, in which the cells of the tela cellulofa are filled with ferum, are without heat or pain, and if the pulfe be quickened, it is from the depraved flate of the blood, which acts as a ftimulus,
- Nothing more dangerous than to bleed and give antiphlogiftics in dropfies, or to preferibe bark or tonics in difeafes of the inflammatory clafs, _____
- A ftriking defect in treating difeafes of the eyes by bleeding, purging, and antiphlogiftics; when bark and tonics are more proper.
- In tonical diffention occafioning madnefs, venæfection and antiphlogiftic evacuants, and extreme dry diet, in general neceffary,
- Quantity of foods of great importance, likewife qualities. Plan propofed, _____
- The use of nitre, camphor, neutral or alkaline falts, tartarum folubile, fal fodæ, &c. antimonial diaphoretics, &c. Prefcriptions that have succeeded in the cure of tonical mad-
- nefs, Effects of vinegar: this acid has cured many cafes of madnefs; probably by diminishing lacteal abforption, and acting as a diaphoretic, &c.
- The cure feems to depend on effectually depleting the veffels, and preventing repletion.

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In atonia, pallor, debility, and a ferous depraved state of the blood, bracers may be proper, but conjointly with a . very dry diet, &c.

Madnefs formetimes complicated. The Patient's conftitutution to be reflected on before the madnefs commenced; diet, exercifes, propenfities, &c. The modes of cure fhould be complex, when arifing from compound caufes. Seafons of the year confidered, _____

Various acrimonies of the blood produce madnefs, a fuperabundance of red particles, ferum, coagulable lymph, *Scrophulæ*, or King's evil, *venereal*, *gouty*, *rheumatic*, *fcorbutic* acrimonies caufing madnefs, muft be treated accordingly; but the blood to be thoroughly changed, or no

radical cure need be expected,

Uses of fweating without drinking, vapor baths, mineral alteratives.

Exoftofes prefing on the brain, preternatural dryncfs, indurations of the brain, in general incurable, and undifcoverable during life; therefore little relief to be expected even from the most judicious medicine. Florid, pale complections, acrimony, how to be treated, _____

Opium a dangerous remedy in any fpecies of recent madnefs. The objections against opium in madnefs clearly pointed out by reasoning and analogy,

Opium is a mere palliative, and muft do mifchief in madnefs: it fhould never be prefcribed but in cafes where all rational practice has failed, and when the diforder has long continued. In the prefent curative intentions the caufes of the diforder are confidered, and rational modes propofed to eradicate the evils.

The data or facts on which the cure of madnefs have been founded are anatomical inquiries, the most certain of all, and inductive reasonings from the morbid appearances of parts, constituting many new lights on madnefs, —

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If the methods recommended fhould, as they may, in many inftances,

instances, fail, yet the caufes of failure will be more certainly traced. The next ufeful knowledge to curing difeafes is, to comprehend and give the reafons why cures fhould not be expected. This is the diffinguishing characteristic of real medical learning, contrasted to rash boasting and delufive empiricifm,

- The most curious medical anecdote concerning madnefs is, the Abderites calling Hippocrates to cure Democritus of madnefs. This fnews the original notion of black bile, or melancholy, being the caufe of madnefs.
- Two curious letters, translated by the author from the Greek, written two thousand five hundred years ago, on this fubject, flewing the affection of the Abderites to Democritus, and the noble, difinterested conduct of the physician, Hippocrates, on the occafion,

On Suicide.

Suicide, or felf-murder, confidered heinous in a religious,	
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When the mifery of the mind appears greater than the pre-	
fent or future advantages of life, a fufficient refolution	
is fummoned up to deftroy that life which is become in-	
fupportable,	117
Self-murder not magnanimity of foul, but the reverfe.	
The example of Cato has been applauded, but certainly	
merits the feverest cenfure. It was Cato's act of infanity,	
arifing from perfonal pique, disappointment, depression of	
2	his

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his natural courage, inglorious and unworthy of fo great	
a character. He was impos mentis. Reafons why all per-	
fons who commit fuicide should be confidered, at the	
time they commit the act, in a flate of infanity, 1	18
Phyficians have frequent opportunities of obferving the di-	
minution of human courage and wifdom from long-con-	
tinued misfortunes or bodily infirmities. Example of Lu-	
cretia, Cleopatra, Marcus, Curtius, &c 1	21
Various reafons why fuicide fhould always be confidered an	
act of infanity, I	22
Prevention of fuicide, &c. Vigilance of friends recom-	
mended, and the removal of all offenfive weapons, &c. 12	z4
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fuicide, and an English gentleman who intended the	
commission of self-murder, 12	:5

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TREATISE

A

MADNESS, SUICIDE, Sc. Sc.

INSANITY.

MADNESS, or infanity, is an alienation of the mind, without fever.

It is diffinguished into two species; melancholy, or mania; furor, or raving madness.

The former is known by fullennefs, taciturnity, meditation, dreadful apprehensions, and despair.

The latter is attended with a violent and inordinate defire often to do mifchief; fury, vociferation, impetuofity of temper, an indomable turbulence and vehemence; an angry Vol. II. B and and wild flaring look in the eyes, actions rashly attempted, and as suddenly relinquished; obstinacy, perversenes, immodesty, are amongst its characteristic figns.

These are the two general species of infanity; but they are often complicated; and in madness, as in the natural tempers of human beings, there is an infinite diversity.

Various are the opinions on the caufes of madnefs; but *pathemata animi* certainly are the principal, as love, pride, grief, &c. Hoffman thinks it to be a debility of the brain; others fuppofe it to arife from black blood, difeafed liver and fpleen, acid humors in the ftomach, fuppreffions of accuftomed evacuations, &c. &c.

Venal bleedings, arteriotomia, vomiting, purging, immerfion in cold water, hot baths, diuretics, fetons, blifters, the foliciting accuftomed evacuations, *diluters*, camphor, nitre, mineral waters, light diet, air and exercife, ftripes, foothing words or flattery, and attention to the minds of patients, are the principal remedies prefcribed by all authors in madnefs.

5

From

MADNESS, SUICIDE, &c.

From a contemplation of the plans of cure adopted for madnefs, it feems, that the diforder has neither been fcientifically confidered, nor judicioufly treated. The general ufe of evacuants by purging is rational, but vomiting and diluting are certainly very abfurd. The veffels of the head, by diffection, are found over-diftended, and vomiting fends up a greater quantity of blood, accumulating evil on evil. Where the veffels are already turgid with blood, the admiffion of great quantities of diluting liquors must add fuel to fire, and increase the fullness; not to mention its incongruity with evacuants. If evacuating the veffels be a proper curative intention, filling them again must be a contradictory practice, and re-productive of the difeafe.

The few opportunities practitioners in general have to examine, deeply, the nature of madnefs, except those who turn it greatly to their emolument, may be the cause of these diforders being little understood. I have attended some few instances, and have opened the bodies of some mad persons after death, and finding my diffections correspond nearly

B 2

with others, from these fources of intelligence will some new opinions be advanced on the subject; that those who have the power of attending the infane, may, if they approve, apply the methods.

As to dependance on medicine, I have feen enough of the mad to know, that many cannot be prevailed on, without violence, namely, what is called fpouting, to fwallow any; therefore, the manner of treatment here propofed will be derived from anatomical information, and greatly confift in a ftrict attention to diet, as well as medicine.

Diffections of mad Perfons.

The diffections of mad perfons after death fhew various indifpolitions of the brain and its membranes *.

The

* Appearances from diffections after death.

MELANCHOLIA.

Symptomata morborum.

Extispicia cadaverum,

Pus in cerebro.

Melancholia cum capitis dolore quem fequuntur convultiones.

flipatur, subito moritur.

----- fiti moleftiffima

Ventriculi cordis infarcti pituita.

Melan-

MADNESS, SUICIDE, Cc.

The veins of the dura and pia mater, cerebrum and cerebellum, are greatly distended with dark-colored blood.

Symptomata morborum. Melancholia cum infania. ----- tabe confecti. ----- in febre cum do-Iore dorfi, cui fuccedunt fluxus hæmorrhoidales & corporis tumefcentia.

------ afthma & tabes dein.

- cum furore, dein amentia.

melancholicus gladio fe confodit, fanatur; fed dein fuborto vomitu enecatur.

----- femet ipfe fufpen- Lien putridus. dit clavo fenestræ.

_____ post usum fruc- Pancreas calculofum. tuum horariorum moritur.

lore.

Extispicia cadaverum,

5

Venæ capitis varicofæ. Viscera abdominis scirrhofa. Pancreas & pulmones purulenti, cerebrum turgens colluvie ferofa.

Hepar fcirrhofum; pectus aqua fcatet; pericardium cordi adnatum.

Cerebrum exfuccum & flavum.

Cor marcidum, aqua citrina in pericardio.

---- cum fummo ca- Sanguine nigro turgent venæ encephali, aqua ftagnat in ventriculis cerebri.

MANIA.

Symptomata morborum.

Mania, a lochiis fuppreffis post septennium oborta, hæmorrhagia uteri fedatur, qua tamen nimis perdurante, motur ægra.

Sectiones cidaverum. Uterus passim scirrhofus &

paffim cartilagineus.

Mania

The meninges have been found offified. Congestions called *polypi* and pus, have been discovered in the brain; but this, perhaps, is the effect more than the cause.

The

Symptomata morborum.

Mania fuccedit cephalalgiæ & animi perturbationibus, post se trahit fyncopem lethalem.

Sectiones cadaverum.

Hepar exiguum, vafa encephali fanguine turgentia, meninges offeæ, plexus choroides hydatidofus, & aqua in ventriculis cerebri.

----- post studia intensa.

Cerebrum ingens, compactum; vafa ejus fanguine turgida.

In aliis fubjectis fuerunt inventæ meninges offificatæ, & aqua in ventriculis cerebri ; plexus choroides feirrhofus; cerebra perdura; cranii offa folito multo majora; vermes in naribus.

Pauca depromuntur ex observationibus anatomicis :

Vafa cerebri fanguine craffiori, fubatro turgida, colluvies ibidem ferofa, plexus choroides muco obductus, glandula pinealis vitiofa.

Cor polypis refertum-abdominis vitia varia. Ovarium steatomatopilosum repertum-Miscell. Beroll. iii. p. 16.

Mania. The feat of this difease about the vena portarum. Simson.

Meninx dura ficca. Fantoni & Baglivi.

Lapilli inventi in glandula pineali. A plica refecta tumidum cerebram, membranæ putridæ. Haller.

Polypus in cerebro. 1 dem.

Anatomia maniacæ mulieris; 1. in the intellines were found a great many tæniæ and fome lumbrici; 2. the mefenteric glands obstructed

MADNESS, SUICIDE, Sc.

The veins of the brain are varicous.

The ventricles of the brain are fometimes full of ferum or lymph.

Scirrhofities and hydatides, or rather varices of the plexus choroides, are frequent.

The pineal gland vitiated and fcirrhous.

The brain turgid with a ferous colluvies.

Worms, or rather polypi, in the nofe, and finuses of the os frontis.

Polypofe concretions in the finules of the dura mater.

Various difeafes of the vifcera, which, excepting the ovaria and uterus, appear more the effect than the caufe of madnefs.

In

obstructed and indurated; 3. the aliments in the intestinal duct every where of a white color, the chyle not having been yet feparated; 4. the intestines very much distended with wind, in fome places inflamed; 5. the brain inflamed alfo; 6. in the anterior ventricles extravasfated ferum; 7. a large polypus in the finus falciformis, also in the left lateral, in the right a small one; 8. the whole substance of the lungs full of pus, and scirrhous; 9. cedematous legs. Harmer.

From fome diforder of the brain, from hot and acrimonious blood, juices, vapors, but chiefly from yellow or black bile. Galenus.

Maniæ causa. Ab amore, a belladonna, datura, a gravidi tate hemicrania, a herpete represso, hysteralgia lactea, fine materia, melancholia, suppressione metastatice, a pathemate periodica, a plica resecta, scabie repressa, semine retento, terrore & veneno. Sauvages.

A TREATISE ON

In what few diffections I have been able to obtain, were the fubfequent appearances.

A turgency of the veins of the dura and pia mater; but of this latter in particular, through all its various directions in the cortical and medullary fubftance of the cerebrum and cerebellum.

A dilatation of the veffels in the plexus choroides.

Serum in the ventricles of the brain.

By injecting the internal, external carotids, and arteria cervicalis, no dilatation of the coats, congestions of blood, nor indeed was any blood whatever found in the arteries; but the dilatation and turgency were either in the capillaries, or venal fystem.

The fame circumstance has been observed in the habitual inflammation of the eyes.

Inferences drawn from the antecedent appearances in mad perfons.

Paffions, or meditation, certainly force a greater quantity of blood to the brain than is ufual.

This increased quantity of blood, when moderate, or when accidental or temporary,

MADNESS, SUICIDE, &c.

is prevented doing any great injury, by means of the finufes of the dura mater.

When the paffions are often repeated, or the mind conftantly meditates with great energy, attention, force, or violence on any one object, the veins are conftantly in a ftate of diffension, by which means their coats become weakened, and the dilatation, or enlargement of their diameters gradually increase, from the quantity of the blood forced by the arteries into the veins.

The inability of the veins, deftitute of valves, to re-convey the blood to the jugulars, &c. with a rapidity equal to its celerity and augmentation, preferves the diffension.

In proportion as the veins dilate to receive the increafed quantity of blood, their coats become weaker and weaker, of courfe lefs able to make refiftance to the augmented quantity of fluid, and lefs endued with power to force the blood on to the finufes of the dura mater, or to the larger returning veins. This increafed and conftant dilatation of the veins may increafe the fize of the veins confiderably in every part of the cerebrum and cerebellum, through all their foldings, and

in fhort in every part containing the pia mater, which is proved by injections to be almost universal in the brain, and all its appendages.

The finufes of the dura mater themfelves may be over-diftended.

The increased velocity of blood in the arteries, and its tardy circulation through the veins, may occasion irritation in the *pia mater*, the fame as the *ophthalmia* causes, in the *tunica conjunctiva* of the eye.

This increafed force, or quantity of blood paffing through the arteries, may change the blood, and produce vitiated acrimonious fluids in the brain itfelf. Local contaminations of the fluids are not uncommon in other parts, by which the whole body may become tainted, although the morbid effects fhall chiefly predominate in the particular part firft difeafed.

The conftant generation of these acrid, vitiated, and irritating fluids, probably produces those effects called *amentia*, *furor*, *mania*, *infania*, *melancholia*, &c. creating confufion and absurd ideas in the mind, or rather the mind cannot act with precision on a difordered brain.

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After

MADNESS, SUICIDE, Ec.

After parts have been long accuftomed to act with increased energy, and the veffels to suffer reiterated diffension, they may continue in a state of difease *, as is demonstrated in the *habitual ophthalmia*, ulcers, and other difeases arising from vitiated suffers acting on the folids, and irritated folids and vessels increasing their forces, and acting on the fluids.

An over-diftended bladder lofes its elafticity and contractility, and becomes paralytic; incapable of forcing out the urine, or overcoming the refiftance of the *fphinEler veficæ*.

The differences obferved in maniacs, as approaching more or lefs to furor, melancholy, or defpondency, may be rationally explained from the natural difposition of each individual mind; the habit of body, the healthful or vitiated powers of digestion, chylification, fanguification, and nutrition; the fecretions and excretions.

In debilitated habits, where folids are lax, and the blood ferous, the face pallid, with natural

• Whoever defires to have more explained on the poffibility of local difeafes, as ulcers, &c. contaminating the whole body, may confult my treatife on ulcerated legs, and their cure without reft, and on fcorbutic complaints.

II

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natural flownefs of conception or expression, melancholy of different gradations takes its feat.

In ftrong habits, or where the conceptions are quick, the paffions violent, and the expreffion impetuous, and where fluids and folids approach nearest a healthful state, furor or mania are most likely to prevail.

When conftitutions partake of a mixture of health and ficknefs, of violence and infenfibility, of rafhnefs and timidity alternately, the madnefs may be complicated,

As all human beings think differently, and as the variety in nature is infinite with regard to conftitutions, paffions, and propenfities, fo is madnefs; every one being mad in his own particular mode,

Pain or irritations from acrimony or diffenfion of veffels in other parts, are conveyed to the brain, and conceived by the mind; but a changed or vitiated flate of the fluids, and a continued diffension of the veins, in the brain itfelf, feem to deftroy the mind's powers.

The images of the mind create confused ideas, impressions, or false perceptions.

MADNESS, SUICIDE, &c.

In madnefs, the brain perceives not its own indifposition, or irritation.

The phrenitis is temporary or accidental, and feems an univerfal inflammation of the membranes and the brain itfelf; attacks fuddenly and with vehemence, and terminates in a few days; but madnefs is commonly caufed by a gradual, flow, and continued determination of blood to the brain from *pathemata animi*, or meditation on one fubject, until the fluids of the brain become, and continue, vitiated.

The immediate connection of the mind with the body, how they reciprocally act on each other, how the fenfations are diffinctly conveyed, or what are the means by which they are communicated through the nerves to the brain, are objects, however defirable to know, beyond the limits of human comprehenfion. It is, however, indifputably proved, that the nerves are the organs which receive and convey all our fenfations.

It is the nervous fystem which acts, and is acted on by the mind, in all voluntary mufcular action. Destroy the nerve going to any part, and the power of motion and fense

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in

A TREATISE ON

in the part wholly ceases, or is but very imperfectly performed by means of other anaftomoling nerves.

Irritations on the brain produce convulfions.

Compressions on the brain, from overdistended vessels, fractures, or depressions of the scull, concussions from falls, or any violent shocks, and extravalated blood on the brain, produce delirium, convulsions, stupor, comatofe symptoms, loss of sof fense and voluntary motion, infensibility, and death.

In depreffions and fractures of the fcull, all those fatal fymptoms are frequently cured by the operation of the trepan, and removal of compression, extravasated blood, or matter from the brain.

Though human knowledge has not yet difcovered, nor perhaps never may difcover, what the *foul* is, how it operates on the body by means of the nerves, or how the nerves operate on the *foul*, and convey our will, or fenfations ; yet an industrious application to diffections after death, fhews frequently the im-

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immediate caufes of various fymptoms, and even death itfelf. *

* Although diffections in delirium from fevers are not immediately connected with madnefs, yet, from the fimilarity of fymptoms, the fever excepted, I have been induced to add the following appearances found on opening the dead bodies. Thefe diffections flew various affections of the brain and other parts, and the fymptoms they produced during life.

DELIRIA.

Symptoma. Delirium foporem accerfit lethalem.

----- cum convultionibus febrem vulneri frontis fuccedaneam fequitur.

----- cum epilepfia.

----- excipit capitis dolorem cum febre continua.

cultate variolofum cruciat.

----- buboni fe adjungit. ------ in febre ardenti & convultionibus.

cephalalgiam comitatur.

----- furiofus excandefcit in febre chronica. Extifpicia cadaverum. Cerebrum durum, concretiones in ventriculo. Abfceffus in dura matre.

Meninges putridæ; aqua in ventriculis cerebri.

Ventriculus tertius cerebri lympha turget.

Pustulæ in bronchiis.

Cor fanguine infarctum. Pulmones & hepar putridi, cerebrum illæfum.

Tumor cyfticus in cerebro.

Hepar durum & ingens : cerebrum colluvie purulenta inquinatum.

Delirium

IS

In powerful exertions of the mind to produce great bodily strength, large inspirations

are

Symptomatas

Delirium cum febre vehementi & dolore circa coftas nothas.

----- in febre tertiana duplici & tumoribus brachii fica fellis aëre turgida. dextri.

----- in febre maligna epidemica.

---- cum tremore prehendit capitis dolorem.

_____ puer delirians, floccos colligit, lingua exufta, fæces nigræ.

- cum convultionibus in febre petechiali.

____ cum alvi fluxu. ----- excipit colicam.

_____ post fe convulsiones trahens, accedit melancholicum vomitionibus & capitis dolori obnoxium.

Delirium succedaneum capitis dolori, cum convultionibus, fævit.

Exti/picia cadaverum. Diaphragma inflammatum.

Ventriculus inflammatus, ve-

Aqua in abdomine & encephalo, hydatides in cerebro & hepate.

Pulmones fcirrhofi, valvulæ aortæ induratæ, aqua fanguinea in cranio & fpina dorfi.

Cyftis lympha turgens in cerebro.

Pulmones fcirrhofi, pleuræ adnati, omentum & inteftina putrida, lien ingens.

Intestina putrida.

Inteftinum cœcum putridum.

Omentum exefum, inteffinum colon inflammatum.

Absceffus cerebri.

Delirium

MADNESS, SUICIDE, Sc.

are made, the increased air is retained as long as poffible in the lungs, the face reddens, and

2000	-J. 4			
Delirium	Juccea	laneum	in	feb

Symptomata.

Extispicia cadaverum. Gelatina circa vafa cerebri-

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re ardente.

alvi fluxui.

- item. lipothymıæ. - ifchuriæ.

- 'animi perturbationibus.

---- post capitis contufionem & tetanos fibi accerfit.

----- poft cerevifiæ hauftum viget : remediis fugatur, fed dein recrudescens convulsiones lethales accerfit.

poft infolationem oriens, convultiones.

poft cafum ab alto cum dolore in vultu.

arfepropinato nico.

- cum fomnolentia, & ictero, obfcuro hepatis dolore post contusionem capitis.

Abdominis inculpata vifce. ra, hydatides in meningibus & aqua in ventriculis cerebri.

Inteftina putrida.

Aqua in capite & fpina dorfa. Ren dexter & ureter calculofi.

Hepar inflammatum.

Aqua in ventriculis & juxta. bafin cerebri : meningum purulentiæ.

Meninges offex.

Cerebrum inflammatum.

Sanguis stagnans in cranio; cerebri involucra inflammata. Ductus alimentaris exefus.

Dura meninx & hepar putrida.

C

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and by the command of the will the bodily powers and ftrength, for a fhort fpace of time, exceed greatly the natural; fo that people run fwifter, fupport and carry greater weights, fight with undaunted violence, and ftrike with an incredible force, and effect furprifing things, by fummoning a vigorous refolution and mental determination.

The firength to be acquired by the command of the will is aftonifhing, yet it cannot be accomplifhed but by a greater determination of blood to the head, and its retention there fome fhort fpace of time; fo as to give the increafed nervous energy to all the acting mufcles.

Perfons of delicate weak habits, in madnefs or convultions, acquire fuch an additional force and *ftrength*, as to require two or three ftrong perfons to prevent their doing themfelves or attendants mifchief.

Hence it must appear rational, that the increafed force in convulsions, delirium, madnefs, or any extreme violent actions, in a great measure, depend on a greater quantity of blood flowing to the brain, or particular nerves.

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fant

By the command of the will, by paffions of the mind, by clofe meditation, a greater quantity of blood can be fent to the brain than ordinarily flows there, without fuch intentional influence. Two effects can be produced by this increafed quantity of blood in the brain, according to the pleafure of the will, either *ftronger fublimer ideas* in the mind, or an *increafe of bodily ftrength* in all the mufcles deftined to voluntary motion.

According to inclination, human beings, by exertions directed differently, may increase the bodily or mental powers to a furprising degree.

Poetical fublimity, fuperior reafoning faculties, clear conception, penetration, judgment, a refined imagination and expression, are all the effects of mental, as the exercises of the *palestræ* are of bodily exertion.

An over-exertion of both body and mind continued, will injure the most robust constitutions; lassifitude is the consequence of either; but, conjointly exercised, great debility and palsies have originated.

A ftrong attraction to any particular art, science, or pleasure, an ambitious and con-

ftant defire to excel the grofs of mankind in whatever is the particular object of attainment, are fometimes attended with fymptoms little fhort of madnefs, but is denominated ardor, zeal; or if religious, devotion, enthufiafm.

An over-affection for horfes, dogs, mufic, painting, the chace, flowers, the gratification of amorous paffions, or, as the French express it, *il est fou de telle* ou *telle autre chose, il aime* à la folie les jeux ou les chevaux, &c.; or the violent and unremitting pursuit to acquire greater knowledge than others in any art or fcience, have all produced madness.

Whatever may be the pleafure or object in view, there is in the mind a pronenefs or propenfity, either through choice, neceffity, or hopes, according to the various taftes of the parties, for its acquirement, which may aptly be called *mental attraction*.

This *mental attraction*, not always the effect of deliberative reafon, but often of chance, example, caprice, or whim, produces all the diverfity of taftes, defires, and purfuits differnible amongst fociety.

While

MADNESS, SUICIDE, Sc.

While the words and actions of mankind, in the different attachments, or *mental attractions*, correspond with the objects of pursuit without wild ravings, loss of soffense, or mischief to society, they should not be censured as madness; for every being has a natural and just right to be *fuo modo* happy.

These mental attractions, when directed to the improvements of arts or sciences, or to render mankind wifer and happier, although they may give a fingular cast of character to the possession of the utmoss respect. A philosophical apathy, or that indolent, torpid state of mind some ancients fought for in vain, could it have been attainable, would have produced an injurious inactivity. The passions, or active principles in the human breast, have invented all that is laudable and excellent; if they have injured in some instances, in others, society have been equally benefited.

The inordinate attention of the mind to objects above human comprehension, or attainment, may appear, in some measure, ridiculous, though it frequently produces some new discovery; but disappointed love, grief,

or

or any affections of the mind arifing from human calamities, imaginary or real, merit the utmost humanity and compassion.

There are *corporeal attractions*, that give each individual, in a certain degree, his own particular conftitution and apparent character.

Corporeal attractions, are the affimilations and adhefions of conftituent particles from nutrition, and their conversion into certain states of the blood and body peculiar to each individual, the effect of which is likewife called *idiofyncrafia*.

The fat and corpulent attract and retain, from their daily food, abundance of oily particles.

The thin or flender attract lefs oil, but more earth and gluten.

The pale attract ferous particles of blood in nutrition.

The florid, what composes red particles.

The fallow-coloured, a confiderable portion of coagulable lymph, &c.

These corporeal attractions give the different appearances amongst human beings,

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as to fatnefs, leannefs, pallidnefs, and fioridnefs, &c.

The *mental attractions* and character are much dependant on form of body and flate of blood.

A grofs habit of body produces indolence; flendernefs, activity and alertnefs; pallidnefs, debility and flownefs; floridity, warmth of conftitution and quicknefs of temper *. The rudiments, or *prima flamina* of this natural variety, are formed perhaps in the embryo, *ab origine*, while in the uterus, or in the veficles containing the *animalculum* in the ovarium.

All the differences in one and the fame difeafe, amongft different patients, arife from this variety of *corporeal* and *mental attractions*. Appearances and fymptoms in difeafes may be nearly the fame, but the fenfations are different: a fcratch on the finger of a delicate nervous perfon, appears as great a calamity, as a large wound to the robuft and more torpid. Sympathy in woe, therefore, or human feelings for the diftreffes

* These subjects are pursued and confidered more minutely, with their causes and effects, in my treatise on diet, &c. diftreffes of others, should not be proportioned merely to the magnitude of the evil, but to the acuteness of the miserable senfations perceived in the afflicted breast*.

The evident exiftence of *mental* and *corporeal attractions* comes within the knowledge of every reflecting obferver, and is fubject to ocular demonstration. The component parts of different human bodies may be analized, and it may be easily difcovered, whether oil, gluten, earth, &c. most predominate, with their relative proportions.

From the difference of the natural or acquired mental attractions, or cogitations, and

* General modes of practice preferibe a variety of remedies in various difeafes; but the felection of what is most beneficial, at what times, and under what circumstances, must always be left to the skill of the preferiber. All mankind differ; in a certain degree, all require fome different treatment.

These observations on corporeal and mental attractions, and diversities of opinions on one and the same subject, apply more closely to the differences of conflictations in nature, than many written precepts on difeases, which can only give general knowledge, leaving much to difference. Nature is full of irregularity; what then can be more absurd, than to expect success in physic by following one beaten track or confined routine in practice?

and the different proportions of the component particles and figures of human bodies, all the varieties and fingularities of mankind, whether in health, ficknefs, or even madnefs, originate.

These diversities, in corporeal and mental attractions, give the character, personal difference or identity, and distinguish one human being from another *.

The corporeal and mental attractions not only differ in each individual, by which one man is diffinguished from another; but diet, air, foil, climate, and pursuits, produce different human attractions.

The light air and diet, and cuftoms of France, produce gracility and agility of body; cheerfulnefs and levity of mind; while the

* In the animal, vegetable, or mineral kingdoms, affinities or attractions can be proved by chemistry, and various experiments of *analysis* and *synthesis*.

Particles attract fimilar particles, and repel diffimilar. All the figures of human bodies, whether tall, fhort, fat, lean, &c. depend perhaps on original formation in the uterus, and the power of attraction afterward with fimilar particles, while the foetus, or human being, is in a flate of growth. Different vegetables attract different particles as well as their component parts; minerals have likewife attractive and repulfive powers, &c. the fwampy bogs, and moift atmosphere of Holland and Zealand, Flanders, Lower Germany, give magnitude and flowness of body, feriousness and folidity of mind. These people, though they live not widely distant, are as diffimilar as the source of volatile particles fly through the former, while the latter attract and retain humidity and fluggisch phlegm, fat, or coagulable lymph; the causes of these differences are easily suggested and discovered by a philosophic and inquisitive mind.

It must appear evident, that the reception, attraction, and retention of certain particles from diet, air, &c. and the volatilization, or repulsion of others, give to the human body all its various and peculiar forms, powers, energy, &c.

The mental attractions, which are often dependant on the corporeal, in a certain degree, form attachments to favourite purfuits, from example, paffions, or fentiments in the mind, and direct the corporeal to certain purpofes; this may be called

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called *mental attractions* to any art, fcience, pleafure, or paffion. While reafon guides the helm of human affairs, and the attention corresponds with the object propofed to be acquired, or the means purfued are rational, man may be pronounced in his perfect fenses; but when the objects defired exceed all bounds of possible acquisition, and yet are pursued with ungovernable affiduity and unreasonable expectation, such a state of the mind is, in a certain degree, folly bordering on infanity.

Various are the fpecies of folly that have terminated in madnefs.

Mental attractions to pride, arrogance, infolence, duplicity, falfehood, envy, and malevolence, are all inftances of folly; they are the temporary fupport, and the fublimest refinements of little difingenuous minds; but on meeting difrefpect, detection, or difappointment, have produced madnefs in the poffeffors.

Mental attractions to strict justice, integrity, truth, and fincerity, are the strongest marks of superlative wisdom, and are the appen-

appendages of truly great minds: they generally give a philosophical calmness in prosperity or adversity, and an happiness to the possession, unknown to the artful, treacherous, or deceitful.

It is to be regretted, that in the human affairs of the polite refined ages, artifices are the only weapons to counteract artifice; falfehood and duplicity, falfehood; pride and infolence, haughtinefs, or felfaffumed dignity; hypocrify, low cunning and hypocrify. The books that have reduced thefe immoral practices to a regular fyftem, inftead of applaufe for their politenefs of ftyle or manners, fhould have been concealed for ever from the face of the earth; for they teach the vicious knavery, and render the upright fufpected.

In proportion as the arts, fciences, and luxury increafe, fo do vices and madnefs. In countries where the feweft wants and defires are experienced, there are the fmalleft number of mad perfons; in those kingdoms where the greateft luxuries, refinements, wealth, and unreftained liberty abound, are the most numerous inftances of madnefs. England

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England, according to its fize and number of inhabitants, produces and contains more infane than any other country in Europe, and fuicide is more common *.

In other nations, mankind are obedient under either military or religious defpotifm, and are educated from infants in implicit fubmiffion and non-refiftance; in Britain, every one thinks and acts as he pleafes; this produces all that variety and originality in the Englifh character, and caufes arts, fciences, and inventions to flourifh.

The agitations of paffions, the liberty of thinking and acting with lefs reftraint than in other nations, force a great quantity of blood to the head, and produce greater varieties of madnefs in this country, than is obferved in others. Religious and civil toleration are productive of political and religious madnefs; but where

* I have examined this matter in France, Italy, Germany, and Holland, but find no comparison in the numbers who commit fuicide in those countries and England. Infidelity in a wife rarely makes a Frenchman cut his throat, but has often produced fuicide amongst the English, &c. To live in France à la Parissenne is common.

no fuch toleration exists, no such infanity appears.

The remote causes of madness are various:

Anger, pride, and infolence mortified, malice and envy ungratified, merit unprotected, or crufhed by the unworthy; love, fear, hope, difappointment, anxiety, grief, defpondency, avarice, and a diverfity of human vices, folly, and calamitous feelings, have all been productive of *idiopathic* infanity.

There are accidental remote caufes, as fuppreffed evacuations, metaftafis, &c.; this may be called *fymptomatic* infanity, and is oftener cured than the former.

It appears from diffection, that an augmented portion of blood vitiated in the brain, or its membranes; coagulation of the humidity in the cortical or medullary fubftance of the brain, concretions, &c. are the principal immediate caufes producing the effects of delirium or madnefs.

How an increased quantity of blood vitiated in the brain, or a coagulation of the fine

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fine ferous fluid tranfuding the ftructure of the cerebrum and cerebellum, produce fuch continued different effects in the mind, as falfe apprehension, reasoning and judgment, are questions replete with difficulty; but their investigation shall be attempted. The speculations and reasonings, however, on this dark subject are not delivered as indisputable truths, but merely as matter of opinion, or probable conjectures.

1. The brain has not been proved to fecrete any fluid known by the common names of nervous juice, nervous fluid, liquidum nervofum.

2. No fluid, called *nervous juice* or *fluid*, has been difcovered to pafs and repafs through the nerves.

3. Nor is it rational to fuppofe any liquid can pafs and repafs with fuch rapidity as thought itfelf, either through tubes, fuppofing they were exifting, or by tranfudation. Nothing but light could pafs fo rapid.

4. The arteries pafs through all the nerves in every part, internal and external, by means of the tela cellulofa, or pia mater; this I have frequently

frequently proved by minute anatomical injections.

5. Where arteries pafs in other parts of the body, veins are generally found; from hence it is reafonable to infer, that minuteft veins, as well as arteries, pafs through all the nerves and nervous filaments, though the veins cannot be demonstrated, owing to the coagulation of their contained fluids, immediately after death, as in the lymphatic fystem, except amongst those who die of dropsies.

6. The last action of the arteries, in articulo mortis, is to force their fluids into the veins; the former are empty, the latter filled after death.

7. The experiments of phyfiologifts to difcover the *nervous* fluid, or liquidum nervofum, are erroneous; ligatures paffed round nerves have only impeded the courfe of the blood in the arterial fyftem, hence tumefaction above the ligatures, and infenfibility of parts below.

8. It appears clearly that many physiologifts have not been deeply verfed in anatomical

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cal injections, or they never could have fuppofed tumefactions above the ligatures of nerves, or the lofs of fenfe and motion, any proof of a *nervous* fluid exifting; becaufe those effects arise from other manifest causes.

9. Impeding the courfe of blood in the artery, will effectually produce a coldnefs and infenfibility of a part; an *aneurifm* of the fubclavian artery, which is only a partial impediment of blood to the arm, produces coldnefs and wasting to the arm and hand, with lofs of motion.

10. Heat, in the human body, is proved to be the effect of arterial action, and its frongeft refidence is in arterial blood: where arterial action ceafes, heat is abolifhed, and death enfues. Human life depends on heat, and heat on human life; death is the total deprivation of arterial action, abfence of heat, and of arterial blood in the arteries *.

11. Arterial

* I have formerly injected mortified parts, and found I could puth my injections all through the arterial, but not into the venal fystem: from hence I conclude, that the stagnation of blood in mortifications is rarely or never in the arteries, but in the veins.

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11. Arterial action ceafes in a nerve on which a ligature is made; hence, independent of any *nervous fluid*, the nerve below will become cold and infenfible, and all its ramifications, going to different parts, lofe their influence on any attempt to voluntary or involuntary motion.

12. It may hereafter be proved, that animal heat and arterial action are the effects of certain particles extracted in refpiration from *atmospheric* air, and conveyed through every vital, animal, and natural function of the human body.

13. Ligatures round the nerves, producing a tumefaction on the part of the nerve toward the brain, and the lofs of fenfe and motion in the part to which the nerve proceeds, is no proof of the prefence of any *nervous fluid*, becaufe thofe effects are produced by the deftitution of arterial blood, and the pulfatory actions of the arteries; and certainly it is not neceffary, nor fenfible, to ufher in unknown caufes as producing effects, when evident facts, jufter caufes and conclusions, are prefent.

14. In

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14. In fhort, not one experiment, hitherto made, proves that the brain fecretes a nervous fluid, or that any nervous fluid paffes and repaffes through the nerves in voluntary or involuntary fenfations or actions; nor is there any fuch fluid as the nervous fluid, of the confistence and manner of action universally taught and generally received.

15. All anatomists or physiologists, therefore, who have written in their works the term nervous fluid, its regular or irregular diftribution, force, energy, &c. have advanced what has never been proved to exift. All phyficians who talk of the nervous liquid in the human body, under the appellation of liquidum nervosum, or animal spirits, speak at random on an imaginary existence, and without any conclusive experiments or demonstrations to fupport the fuppofed fubftance called nervous fluid. Something acts, but what it is, has not been difcovered; and it is more candid to acknowledge a deficiency of human fcience, than to propagate error.

16. In this treatife, then, the appellations of nervous fluid, liquidum nervofum, or spiritus animales, have been excluded as non-entities, and

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and the nervous powers, nervous influence, or nervous principle, have been substituted.

The non-exiftence of the *nervous fluid*, as generally received, has been ftrenuoufly urged, becaufe it is of great confequence in medical practice; it may likewife be ufeful to the fabricators of curious hypothefes on matter, fpirit, and metaphyfical fubjects.

17. What fubtile matter it is, or whether it is an exceeding volatile penetrating air, fimilar to that which is fuppofed to rufh through the Fallopian tube, and impregnate the ovum in coition, giving life to the inert animalcula, are fubjects that are more accurately confidered in the Schola Medicinæ.

18. The fubtile matter which pervades, and paffes equal to the mind, is the electrical fire; but I doubt much, whether the electrical fluid would be impeded in its progrefs through the nerves by a *non-electric* ligature; indeed, all the conclusions I have been able to collect from electrical experiments, prove the contrary.

19. Nor is the nervous influence fecreted in the brain acting as a gland; but it is, perhaps, *particles of light*, or fire attracted with the the atmospheric air in respiration by the lungs, and conveyed to the brain in the blood, the brain being only its receptacle; probably through an attractive power, similar to other parts of the body *.

The vital principle of heat, or human fire, refides chiefly in the arteries, or in the blood they contain. Mr. Hunter supposes blood alive, not without some reason.

20. It is fufficient, perhaps, for the practice of medicine to know, that all voluntary, involuntary fenfations and actions are conveyed by the nervous powers, and nerves at large, from the brain itfelf, proportionably to the utility and magnitude of the fenfe.

21. The fenfes, as hearing, feeing, fmelling, tafting, feeling, are all received and communicated by the nerves; and their abolition is a deprivation of fenfe.

22. Deprive

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* There is an attractive power *ab origine*, perhaps, in the cells of the adipofe tunic or accumulate adeps; in the liver, to receive particles to make bile; in the falivary glands, to attract particles from the blood proper for faliva; in the kidneys, for urine; in the eye, for that pellucid aqueous humor, &c.; in fhort, all healthful, regular functions are performed by each attracting the propereft particles for its peculiar purpofes, &c. and repelling or excluding the improper.

22. Deprive a human being of the nervous power, and a fenfe of life no longer is perceived by the perfon: tie a large nerve proceeding to any part, and all communication with the foul is either greatly diminifhed, or totally deftroyed.

23. Irritations on the nervous powers produce convulfions or irregular actions, a quicker pulfe in parts, and often confufed ideas in the mind; but compressions or ligatures, according to their powers or force, torpidity or total infensibility. The foul cannot act on a part of the body beyond the nerve's ligature.

24. From the acrid or putrid changes produced in the blood during the last stage of fever, or from a greater quantity of blood determined to, or irritating, the brain, either a furious delirium or stupor and infensibility is produced; the regular powers of the foul being resisted by accumulated or changed blood in the brain.

All difeafes whatever are changes of the blood acting on the folids and nervous powers, and thefe latter again on the fluids.

25. There are, therefore, four conditions necessary to the causes of any disease present.

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i. Some

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- i. Some change of the blood or other fluids of the human body.
- ii. Irritation of the folids from the changed fluids acting as ftimuli in the body, either partial or univerfal,
- iii. Increafed or diminished action in the whole or part of the arterial system; the contractions of the heart or arteries of parts are quicker or flower.
- iv. Perceptibility of an univerfal or partial difeafe in the mind, conveyed by the nerves of the whole body, or irritated nerves of morbid parts communicating with the brain.

26. The foul, therefore, cannot be feparated from the body, in either confidering, or even having positive intelligence of difease; without impressions on the mind no difease would be felt or described by the patient, and much less comprehended by the physician.

27. Though *Stahl* and his followers were extremely abfurd in attributing difeafes and their cure too extensively to the foul's feelings and powers; yet the mechanical an dother physicians, who have denied the mind any power in the affections of the body, have equally

equally erred, which is amply demonstrated in the *pathologia generalis* of the *Schola Medicinæ*.

I formerly made a great number of experiments to determine the connection of the foul with the body; as when the faculties of the foul firft appeared; how it enlarged in knowledge; what were its properties without the advantages of obtaining ideas by different fenfes; what were the confequences of the lofs of hearing, feeing, fmelling, &c. Thefe curious purfuits, though not always rewarded with a complete knowledge of the object purfued, yet opened fome difcovery unexplored, or at leaft imperfectly underftood.

28. The mind or foul cannot be defined by any other means, than by attentive and close obfervations on its oftenfible effects, operations, and powers in the human body.

29. While the ovulum, containing the rudiments of the future animal, remains in the female ovarium, before the impregnation by the male, what is to form the future man is inert, without any perceptible action whatever of heart or arteries, &c. according to the minuteft microfcopical inquiry.

30. When

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30. When the female ovulum is impregnated by the male, the pulfation or punctum faliens is foon after evident; the embryo, in its pellicle or ovum, defcending through the Fallopian tube, and taking its refidence in the uterus, increafes in an evolution of all its conflituent parts, and gradually obtaining its perfect form, grows, from being fmaller than a pin's head, to a most furprifing bulk in the courfe of nine months.

31. During the time that the fœtus continues in the uterus, there is no reafon to fuppofe it enjoys any qualities of the foul, which difplay themfelves afterwards : it poffeffes, perhaps, *ftimulum infitum*, or an internal irritability, for the performance of the peculiar circulation of the blood, and fome fecretions and excretions ; but in itfelf knows nothing of the one nor the other ; in fhort, it has no thinking qualities, no ideas of fenfe or reflection.

32. When the fœtus is excluded from the uterus, fome operations of the foul appear immediately after the first respiration, after receiving *atmospheric air*; for it cries, and foon shews a defire for food, and will elect

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fugar

Jugar in preference to *aloes*. The circulation of the blood is changed and performed in a different manner; for inftead of paffing thro' the *ductus arteriofus*, *venofus*, and *foramen ovale*, the auricles and ventricles receive the blood: the pulmonary arteries and veins acquire their power of circulating the blood through the lungs, &c. in a mode that continues through life.

33. The foul feems to have no power until the atmospheric air has rushed into the lungs; for without this the infant perishes foon after delivery. The air or light feem to contain the *pabulum vitæ*; but after being received by the lungs, what is emitted by expiration is unfit for the purposes of life, a fupply of fresh air being constantly necessary. *Light*, perhaps, is the nervous principle.

For the first month after being in the world, the infant fcarcely shews any visible figns of the foul's powers, except in crying for food, and then it sleeps, if not in pain.

34. Afterward it gradually receives impreffions of objects by vision founds by *bearing*, and, in process of time, imitates the language it is to learn by the foul's powers

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on the organs of fpeech, until it be able to articulate guttural, nafal, oral, or other founds, and diftinguishes one thing from another.

35. Then the mind is imprefied in civilized nations with fome religious worfhip, which it is taught to believe to be the only true religion, and that all others are erroneous: these infantile imprefions very often continue with zeal or fuperstition through life.

36. The foul afterwards expands, and having collected a ftore of ideas by the fenfes, has the power of reflecting, remembering, comparing, and reafoning, by which it begins to form a judgment on men and things. The extent of human knowledge in different men is extremely different; for fome pafs through life without confidering, examining, or performing any thing, except the offices of nature; while others bufy themfelves in inveftigating the caufes of all the effects they perceive, and produce, by an elevation of fentiment and indefatigable industry, the most important discoveries in different sciences, according to the genius, bent, or inclination of the parties.

37. The

37. The properties of the foul then begin with refpiration, and, on refpiration ceafing, the foul loses all its faculties ; does it not appear, that it receives conftantly fomething from the atmospheric air we breathe? The foul feems as fugitive as air. It receives all its primary knowledge by its operation to, from, and by the evidence of the fenfes : it retains what it is taught, can afterwards reflect, remember, reafon, judge, always in proportion to the number and diverfity of ideas it has received or collected. Where there be few ideas, the reflection, reafoning, and judgment are proportionably confined; where they be various and numerous, the foul views men and things very extensively. The inferiority or fuperiority of human understanding generally depend on the paucity or multiplicity of ideas and just reasoning poffeffed by the mind.

38. The powers of the foul on the body have been already obferved ; it can act on the heart, and impel a greater quantity of blood to the head, for either mental or bodily exertion.

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39. The foul's powers in checking or diminifhing the heart's action on any fudden intelligence of misfortune, or quickening its action by joy, must be evident to all perfons capable of quick feelings or fensibility. Mufic has fimilar powers. Handel's funeral anthem has for a short space of time stopped or sufficended the circulation in my heart; lively music has quickened it; and others, who exquisitely feel music, have perceived solver further the solution of accounting for the causes of solvers.

40. The foul can direct a greater quantity of blood to the parts of generation, and create a great turgency in the veffels and cellular ftructure, and retain the fluids there a confiderable fpace of time.

41. Violent anger has forced fo great a quantity of blood to the head, that the veffels have been ruptured, the blood extravafated, and fudden death has been the confequence.

42. The foul itfelf is fome invifible agent, or power, acting in various modes on that human matter called the brain, and the foul gradually acquires ftrength and knowledge by the the powers of the fenfes, but not without hus man growth, and human industry.

43. The brain being the foul's principal recepticle, conveys, in health, the foul's intentions, by means of the nerves, to anfwer all the functions of life with order, precifion, and regularity, according to the laws of the animal æconomy.

44. Inftead of a nervous fluid paffing and repaffing all our fenfations, either voluntary or involuntary, it feems more probable that it is the foul's influence that pervades, by its fubtilty, all organized and other parts; it is the grand conductor, as well as governor, of its various feelings and actions.

45. All caufes muft be equal to their effects, and while the foul's powers are not impeded in the brain or nerves, the invifible agent performs with more or lefs energy all the neceffary mental functions of life; but the organization of the brain being difeafed, the foul is interrupted in its various powers by delirium, ftupor, madnefs, falfe images, &c. &c.

46. The foul's powers, however great in an healthful organization of the brain, cannot conquer

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conquer the impediments nor difeafes of that organ; neither can it perceive its derangement from morbid affections in the brain: mad perfons, like the obftinate and fuperficial, frequently conceive all the world to be in error except themfelves.

47. The brain then, that principal organ on which the foul acts primarily, being injured or difeafed, refifts or prevents the foul's regular impulfes, and fo conquers it, as to convert a found understanding into folly and madnefs, or produce a false affociation of ideas.

48. The due order and regularity of the foul's influence being impeded, perverted, or prevented in different parts of the cortical or medullary fubftances of the cerebrum and cerebellum, an irregular influence is the confequence, and the foul's action on different parts annulled ; the free influence being obftructed, falfe images are conceived, falfe reafonings and conclusions refult from falfe ideas and apprehensions ; wild projects, furious ravings, ill-founded fears, ftrange unufual conceits, violent attempts to do mischief, accompanied with incoherent expressions, are the

the confequences of the brain's refiftance to the regular influence of the foul.

49. In the nervous parts, remote from the brain, irritability is excited by vitiated, changed, and acrid blood acting as ftimuli, and arterial action is increafed; infenfibility is produced by ligatures or compressions of the medulla oblongata or nerves, which are the immediate appendages, and possible fing nearly the same structure as the brain. If such effects are producible by evident causes in parts distant from the brain, but immediately under its influence, it is easy to comprehend so for the brain its field, and perverting all regular influence or perception in the powers of the mind.

50. Though what this invisible influence, called the foul is, may remain eternally beyond ocular demonstration, or the utmost limits of the most cultivated human comprehension, yet it must be something fufficiently powerful to act on human matter during life; to increase in strength and energy, in proportion as it aptly receives and treasures

up

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up true ideas, and exercifes its faculties in conceiving, reafoning, and judging, &c.

51. It is clear, that its principal refidence is in the brain and nerves, and these latter pervade every part of the body.

In a found brain, the foul performs its functions with regularity according to individual character. The brain being in a morbid ftate, the animal functions are particularly injured, and falfe ideas, with all their concomitants, are evident, &c.

52. The over-exertions of the foul force an abundance of blood to the brain, either in attempting poetical fublimity, or purfuing deep and continued metaphyfical reafonings and meditation.

This increased quantity of blood, or its acquiring a vitiated morbid change, may cause the brain's resistance to the directions of the soul, and may over-excite, or obtund mental impressions; in the former, fury, and in the latter, melancholy may be the effects.

53. Poetical fury, or violent tragic action, are fenfations excited in the foul bordering on madnefs, and indeed have produced that diforder.

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Enthusiafm is another species, which has frequently terminated in madnefs.

Love is a paffion lighted up in the foul by a mental attraction for fome particular object, and has frequently terminated in infanity.

Anger, pride, envy, and all paffions or miferable fentiments, what are they, but overexertions of the foul's faculties, operating with augmented or diminisched energy on the brain ?

54. Defpondency or melancholy feem to be more the effects of relaxation and a diminution of mental exertion, in which the brain is more chronically affected, and lefs likely to be cured than in the more inflammatory or animated fpecies.

These reasonings or facts, duly confidered, may not only point out superior methods of treating hypochondriacal or nervous difeases, but also infanity.

The confideration of the patient's mind is, therefore, of the utmost importance in many difeases, but more particularly in the mental, to form the prognostics; the timid and dejected require an inspiration of courage and hope, or medicine often fails. In the yellow

fever

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fever of the Weft Indies I have feen numerous inftances of perfons feized with that fever, mournfully affert their affurance of dying, and they too often confirmed their intuitive prognoftic. This was nothing but fear from others dying daily, and if that apprehenfion could be removed, patients have recovered.

In nervous difeafes and madnefs the intellectual faculties should be principally confidered, and the state of the body previous to, and accompanying, infanity.

From reflecting on the powers of the arteries in the brain and nervous fyftem, and the influence of the brain and nervous fyftem on the heart and arteries, and the powers of the mind on both, without the union of which human life cannot but very imperfectly exift, the fubfequent caufes of madnefs have been deduced.

1. Either by the will, or fome accident, a greater quantity of blood has mounted to the brain, or has been retained there, than was agreeable to the laws of the animal œconomy.

2. The fame caufes have continued the fame effects, whether from reiterated meditation, or any violent passions of the mind,

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or accidental suppression of usual evacuations, &c.

4. The minute capillary veffels and the veins fuffer a continual differition, either by the increased force of the arteries directed, or repeatedly determined by the will, or from the relaxation of the vafcular coats, and increase of the venal diameters *.

This increafed force in the arteries, and partial detention or retardation of blood in the venal fystem, cause a change in the state of the blood within the minutest folds and particles of the cerebrum and cerebellum.

5. This change of blood and its additional weight irritate and change, to a certain degree, all the ferous particles of blood in the tela cellulofa, or in the fubftance of the brain, and produce callofities by a coagulation of the fluids in the medullary or cortical fubftance. In the ophthalmia *babitualis*, or *confenfualis*, the

* In evacuating urine, feces, or flatus, a large infpiration is made by the lungs, and the air is retained there during the expulsion as long as possible, especially in costivenes. During these strong infpirations performed by command of the will, the veffels of the brain have been so over-distended as to burst, and the effused blood has caused instant death or a fatal apoplexy. Thus perfons have fometimes been found dead in their water-closets.

the ferous particles of the blood, from increafed action in the arteries, and diftention of the minute veins, become hot, acrid, and irritating: fimilar effects may be produced in the membranous and cellular expansions through the whole brain and its depending nerves. Local inflammation is very common, local acrimony likewife: does not rhumatic acrimony fix its feat in the tela cellulofa of the muscles, the venereal in the periosteum and bones, the gout in joints, the fcrophulous in lymphatic glands, &c.?

6. As clear perception, found reafoning, and folid judgment are obferved in a healthful flate of the brain and its fluids; fo can their alteration or perversion be easily conceived by the effects of acrimony, irritation, and over-diftention, from febrile heat and friction of their component parts, &c.

7. Anatomical inquiry leads to think, that the delirium in fevers is chiefly owing to morbid changes of the fluids in the brain; putrid *miafmata* produce more dangerous and acute deliriums than perhaps any other: putrid *miafmata* are received by the lungs and ftomach, abforbed by the pores of the fkin, or by

by a cut or fcratch on the finger, and have contaminated in a very fhort time the whole body, changing the blood to a putrefactive flate, and ending fatally.

8. Phrenitis is an increafed action of the folids, with inflammation of membranes and an over-abundance of blood in the brain, producing a most dangerous acute fever, raving, or delirium, terminating like violent acute fevers, in a few days.

9. Madnefs is another fpecies of delirium, chronic, not acute; is commonly flow in its progrefs, without fever; neither producing the violent fymptoms and fatal effects of putridity, canine madnefs, not acute phrenitis.

10. Whatever, then, determines a greater quantity of blood, whether it be mental affections, the will, or any accidental fupreffion of accuftomed evacuations, or different fpecies of acrimony, as febrile, nervous, gouty, venereal, &c., may produce temporary delirium, with or without fever, which in an extensive practice may be frequently obferved.

11. If the blood has once diftended the veffels of any part, a debility or relaxation may remain,

remain, and on any future occafion of fulnefs, paffions, &c. they may be rediftended; but particularly the brain, if the fame meditations or paffions be often repeated, and long continued, which first gave rife to the diftention. Where an hæmorrhage has once happened, as in the nofe, lungs, uterus, or anus, there is apprehension of its returning by plenitude, accidental coughs, colds, &c.; pleurifies hap pen to the pleuritic, gout and rheumatism to the gouty and rheumatic, &c.

12. Madnefs, then, is nothing but the effects of diftended veffels, a checked vicious circulation, and changed fluids oppofing or perverting the foul's regular action or power in the medullary fubftance of the cerebrum and cerebellum; in which perception, reafoning, judgment, imagination, and memory refide; as well as the nervous powers over the body, for performing voluntary and involuntary motion, &c.

13. What the foul or mind fpecifically is, has not as yet been fatisfactorily explained, and perhaps never may be difcovered; but it is certain, that morbid changes of the blood, or its over-diftended accumulations,

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concretions, indurations, extravafations, &c. in the brain, produce the effects obfervable in madnefs, from the prevention or perversion of the foul's powers. This is perhaps fufficient for human beings to know, to afcertain either the difficulty of curing infanity, or to direct the choice of remedies most proper for the malady.

Prognostics of Infanity or Madness.

From a review of the caufes of madnefs by diffections after death, and the foregoing obfervations, it will not be difficult to judge in what inftances madnefs is, probably, curable or incurable.

1. When madnefs is recent, and has arifen from fever, accidental fuppreffions, accuftomed evacuations, from metaftafis, or bodily affection alone; there are profpects of curing the complaint by removing the refpective caufes.

2. If the infanity originate from mental perturbation, violent paffions, or any affections of the foul, conftitutional or continued long, long, the cure will be difficult, and frequently impoffible.

3. When the veffels of the brain only fuffer by diftention, reducing them to their original diameters may prove a cure.

4. Acrimony irritating the brain, may be curable by difcovering the fpecies; whether fcrophulous, venereal, gouty, or rheumatic, &c., and by applying, judicioufly, the remedies adapted to each particular fpecies; regimen, &c. &c. These four causes of infanity are, perhaps, more common than the fubfequent.

5. Preternatural accumulations in the brain, from a coagulation of the fine ferous particles, which transfude through the minute ftructure of the different regions in the cerebrum and cerebellum, foldings, circumvolutions, windings, fiffures, connections, various cavities, &c., fearce admit of cure; becaufe the effufed thickened fluid requires *liquefaction* by refolvents, and abforption; which, though poffible in the external parts of the human body, when arifing from contusions, &c., yet in the brain the fucces of any medicaments must be extremely doubtful,

ful, having no affifting mulcular powers to agitate and promote the impacted blood from the lefs elaftic and debilitated veffels.

6. Bony exoftofes, or concretions, or preternatural fubftances, as polypi, &c. are irremediable, could it be afcertained that they exift in the brain, which, however, is impoffible; but thefe are rare cafes.

7. A preternatural drynefs and diminution in the brain, or a paralytic affection of the coats of veffels, &c., are in general incurable, which may be eafily conceived from the prognoftics in palfies of other parts of lefs dignity than the brain.

8. Indurations of various parts of the brain are, when confirmed, incurable, or, at leaft, extremely difficult to remove.

9. Maniacs of a florid complexion have been known more frequently to recover, than the pale melancholic; the reafon of which may be, that the former only fuffer from diffention of veffels, the latter oftener from concretions in the brain, &c.

10. Hereditary madnefs, or the diforder being caufed by an ill-fhaped head, as the cile

cilo or fteeple-crowned, are generally irremediable.

11. The difficulties medicine has to counteract in attempting the cure of maniacs, must be manifest from the appearances of the brain, &c., after death; its utmost efforts may prove fruitles in many instances, the cure, from analogical reasoning, being fometimes altogether impossible; in others uncertain, and in some only probable.

These prognostics are drawn from confidering the importance and fost ftructure of the parts difeased, the difficult access of medicines, or their powers, on parts contained in such a bony receptacle as the skull; the difficulty of drawing off blood from the various parts of the brain, which may be affected; and lastly, from experiencing an opposition in changing the natural tempers of human beings in health; much less then can diforders of the foul be removed, when deprived of calm reason, reflection, and true judgment.

On the Cure of Madness.

The first thing to be confidered in the cure of madnefs is, the caufe which gave rife to the difease, and its rational mode of removal; fecondly, the conftitution of the patient, whether florid, plethoric, and healthy otherwife; or pallid, debilitated, and cachec-The former require profuse evacuatical. tions and abstinence; the latter deobstruents, and perhaps in many cafes tonics. Thirdly, the force of the difeafe, and temper of the patient : the rash, impetuous, and mischievous must be restrained by the strait waistcoat or chains, and exciting fear by the menacing afpect, or the acquired and determined authority of the keeper or attendant : the low and melancholic require roufing, foothing, and amusement. The practical domestic management, however, of the infane, is well known to feveral gentlemen, who receive and humanely attend those melancholy difeafes.

The cure of madnefs, when arifing from fuppreffed evacuations, requires the folicitation

tion of whatever is obstructed, as the hæmorhoids; menses in women; perspiration, or alvine feces, &c.

Although it be much doubted, whether madnefs ever arofe merely from fuppreffed hæmorrhoids, without the junction of fome other efficient caufe, yet, if fuch a circumftance fhould happen, opening the hæmorrhoidal veins with a lancet, or bleeding with leeches, would be proper.

Irritating aloetic purgatives," or centaury, &c. would likewife promote the flow of the hæmorrhoids.

If, however, the fuppreffed hæmorrhoids or piles occafioned infanity, from a turgency of the blood veffels in the brain, bleeding in the jugulars, or even in the arm or leg plentifully, obferving for a confiderable time a very dry diet to prevent repletion, would most probably fucceed.

Pediluvia are likewife neceffary.

Suppressed menses are reproduced by remedies adapted to the constitution.

If the fuppreffion originate in debility, with a very pallid countenance, aloetics and the gum

gum pill, night and morning; and chalybeates, not of the heating kind, are useful, particularly the flores martiales with bitters, &c.; other steel preparations in some constitutions affect the head, and are improper.

If the fupprefion fhould arife from an inflammatory diathefis, with floridity of face and plenitude, bleeding, alkaline falts, fal diureticus, &c. may be prefcribed, and occafionally a fmart evacuating purgative.

Pediluvia of falt and water, repeated two or three times a day, an hour each time, in either inftance of fuppreffion, are advifeable.

Suppreffed menfes, from obftructed uterine veffels, or coagulations, or congestions in the lymphatic system, cannot with certainty be removed, but by mercurials, either prefcribed as evacuants or alteratives. See Chlorofis and Suppreffions of the Menfes.

The obstruction of the lochia, after parturition, has produced infanity, and this happens to fome women during every child-bed period. The removal of the effects of obstructed lochia depends on circumstances, and

and should be treated differently in different subjects.

These cases of madness commonly cede to a skilful application of medicine, of the deobstruent, uterine, or evacuant class.

The milky mania, or that delirium which has been fucceeded by melancholy or madnefs from fuppreffed fecretion of milk, fhould be treated by venæfection, evacuants, and blifters, if no contra-indications forbid their ufe; purging particularly is ufeful, and antimonial diaphoretics, as fmall dofes of *tart*. *emet*. with nitre, and camphor to 10 or 15 grains, every four or fix hours. When I formerly practifed midwifery, I have known thefe methods remove infanity.

Those women who are attacked with a maniacal affection after the birth of every child, commonly acquire their reason, by skilful management, in a few weeks or months.

Nafal hæmorrhage, if customary, on being fuppressed, has caused a maniacal affection; bleedings in these cases are necessary in the jugular, occipital, angular, frontal, or nafal

nafal internal vein, if poffible; for these four last veins communicate with the finuses and veins of the brain itself; therefore, more promptly evacuate the blood from the part affected, and should be particularly attended to in fanguineous apoplexy, epileps, and maniacal affections *.

Irritating the internal part of the nofe, by a feather or ftraw, will likewife produce the nafal hæmorrhage, which is fuperior to fternutatories or fnuff, as the violent action of fneezing, in a plenitude of the veffels of the brain, has ruptured a blood veffel, and proved fatal.

A nafal bæmorrhage often cures that most violent of all deliriums, the *phrenitis*; and all experienced physicians must have observed, that a very small portion of blood issues from the nose in the deliriums accompanying inflammatory or other fevers, has immediately brought the patient to perfect sense and reafon.

In

* See the origin and progrefs of the arteries, finufes and veins of the dura and pia mater, cerebrum and cerebellum, accurately deferibed in the *Schola Medicinæ*, with copper-plates.

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In maniacal affections it appears very rational to purfue a fimilar mode; it is, however, difficult, or impoffible, perhaps, to evacuate a fufficient quantity of blood occafionally from the nafal, frontal, angular, or occipital veins; but anatomy certainly demonstrates the communication of these veins with the brain itfelf, and when it be supposed a turgency of the cerebral veffels is the cause of madness, nothing can appear more rational, than to replete the vesses of the part, and restore the sinus and veins to their original fize by a very great abstinence from liquid foods.

If the fuppreffion of accuftomed perfpiration or coftiveness have occasioned madness, diaphoretics of antimony and camphor, or purging, are indicated. See *Costiveness* and *Dry Skin*.

If perfpiration fhould be wifhed in the head, the fumes of vinegar and water in a large bafon, and covering the head, will produce a plentiful evacuation of perfpirable matter.

Pediluvia of falt and water, or tepid vapor, or water baths, will answer the fame purposes.

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The cure of madnefs from a perturbed mind, or paffions long indulged, is to be attempted by the apparent gratification of the defire, or fometimes opposition, as far as mental cure extends.

Anger, whofe intemperance is augmented by opposition, is easiest calmed by filent neglect.

Pride, which commonly affumes great fupercilioufnefs and arrogance, and pretends to mental or bodily qualities it feldom poffeffes, is beft foothed by affected obfequioufnefs, and adulation.

Mad pride renders the poffeffors, in their own imagination, perfons of very great confequence. The proudly mad conceive themfelves emperors, kings, or great perfonages, generals, rich merchants, &c., and they are generally tyrannical, pompous, obferve a referved diftant behaviour, and expect great homage; which if they receive not, are ferocious, vindictive, revengeful, or fullenly mifchievous.

Pride, in those who are not infane, is generally the concomitant of folly, and is commonly used as a masked battery to cover the

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defects

defects of the mind, or to acquire importance among the undifcerning vulgar: it is pitied by true wifdom, and ridiculed by wit.

Envy, which ever malicioufly indulges itfelf in the misfortunes, miftakes, mental or bodily defects of others, is happieft in hearing fcandal and detraction, efpecially againft those whose fuperior excellence is marked and acknowledged by mankind.

As its higheft enjoyment is the mifery of others, fo its most pungent fensations of horror arife, on viewing any elevation of sentiment or happines.

Avarice or coveroufnefs, which never enjoys what it poffeffes, but thirfts after wealth with an inordinate defire and fedulous attention, is rendered most easy by the contemplation and expectation of future Peruvian mines.

Difappointed expectation is no unfrequent caufe of madnefs; or hopes fruftrated, that have been long dwelling on future acquifitions *. What is more difagreeable to the human mind than long fufpenfe, or alternate F_2 hope,

* It was remarked, that on account of the famous South Sea Subble, many, who were ruined, became mad: hope, fear, and apprehension? Desperate attempts at fuicide are often the confequences of disappointment: there is no remedy but fetting bounds to human defires, many of which are chimerical and unreasonable; but this is only practicable before the approach of infanity or desperation, which, when prefent, never listen to reasoning advice.

Love, that fiery flame, when lighted up in the human breaft, confumes its votary, if not gratified with the object of mental attraction. It is a paffion the leaft of all, perhaps, governable by reafon, and when productive of infanity, which, in proportion to its violence, it is most approximate, is commonly incurable.

Jealoufy is a fenfation of fufpicion, where the greateft confidence is expected. In both love and marriage it has produced fuicide : its remedy is indifference to the object adored, or a philofophical refignation to infidelity. In France, and other warm countries, infidelity in a miftrefs or wife is treated with levity or laughter; in England, with fober fadnefs, deteftation, or felf-murder.

Misfortunes

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Misfortunes in life, if nearly producing madnefs or defperation, are only curable by a timely alleviation of the prefent or expected diffrefs. If from domeftic unhappinefs, from children or relations, vexation has produced madnefs. An apathy of foul feels nothing except for felf; but great philanthropy earneftly engages in the conduct and welfare of all mankind, and has thoufands of emotions and fears unknown to the infenfible or torpid.

A nice fenfe of honor has produced rafh fuicide, or infanity, from the moft exquifite feelings; where fuch fentiments exift, nothing can be more inhuman than to torture them; they are the companions of the moft elevated and noble minds. There have been inftances of officers in the army committing fuicide on only receiving a fharp reprimand for fome trifling omiffion, from a fuperior officer. The experiencing neglect or harfh treatment from relations or friends, where affections have been warm, have produced fhocking inftances of mifery and infanity.

Unjust persecutions are amongst the causes of madness. In this country of liberty, men of superior

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fuperior rank or fortune, even if accompanied with haughtinefs, pride, or a malignant difpofition, have very little power to gratify malevolence; the greateft, as well as the loweft, being equally amenable to the law. In other countries, fuperiors either in rank or profeffion have great power over inferiors. The modern education and philofophy have, however, foftened the ferocity of all ranks; but yet, there are too many inftances, where, if mankind have an opportunity of doing mifchief one to another, they feldom want the inclination *.

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* An anecdote of the medical kind, though it gives no luftre to the professional character of the party, yet ought here to be mentioned, as a most inhuman trait of a man, who has figured in an elevated medical fituation.

While I was at Vienna, the following flory was recent :

Baron Van Swieten, phyfician to the late emprefs, confidered by many not the moft fuccefsful practitioner, and who, all the world knows, was a rigid *Boerbaavian*, had attended a lady of fome rank in the dropfy, and the Baron followed the *Boerbaavian* doctrines implicitly, but without the leaft fuccefs, and declared the cafe *incurable*; afferting, that any phyfician who *undertook the cure* deferved the appellation of an *a/s*. Dr. *Hirneis*, a popular phyfician in that city, much effeemed for his humanity, fkill, and gentlenefs of manners, was called, and foon cured the patient by methods *not mentioned in Boerbaave*. The lady wifhed to recompenc^c

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The perfons most capable of gratifying rancor at the expence of honor or justice, are the haughty,

compence the worthy doctor ; but he declined accepting any pecuniary reward, and only requested the patient to go to Baron Van Swieten, and prove, by ocular demonstration, that the afs had cured what the ox could not, alluding to the overgrown pride of the court phyfician. The Baron, inflamed at the cure being performed by methods he was unacquainted with, meditated and accomplifhed the destruction of the doctor for curing the patient, contrary to his opinion and prognoffic. The Baron had fufficient power with the Empress to have Dr. Hirneis banished from that city to Paffau, by which the unfortunate man loft all his practice, and he, with a numerous family, were reduced to poverty. On the death of the Empress the late Emperor was applied to, in order to recal the banished doctor, who had been in exile twenty years. The emperor, perhaps, not being difposed to shew difrespect to his imperial mother's memory, or to her favourite phyfician, denied the request; but after the death of Baron Van Swieten, the exciled doctor was fuffered to return to Vienna. In his twenty years absence his principal friends had died ; he foon found his practice was unlikely to be reftored, and he expired a fhort time after at Vienna from extreme grief, or, fome fay, by fhorter means. Thus an able practitioner fell a victim to medical fuccefs, through the mortified pride and tyranny of a powerful, but mean, court phylician.

In a learned profeffion like ours, the very bafis of which fhould be founded in gentlenefs, humanity, and the perfection of acquired excellence and fcience; no fuch narrownefs of foul fhould exift, as to be envious at the fuccefs of another. Whereever the dawnings of induftry and fuperiority of medical knowledge appear, they fhould be cherifhed, protected, and brought forward, haughty, proud, mean, and envious. The objects of perfecution are those, commonly, who excel in mental; or who acquire great reputation from real merit, liberality, and probity.

The remedies against malevolence are patient forbearance, perfeverance in rectitude, forefight of future mischief, and a manly opposition to its wily fnares, and low-cunning inventions. Integrity, discernment, and refolution are terrors to the proud, mischievous, or defigning, and formidable signift artifice, diffimulation, or unjust perfecution.

Where an exquifite fenfibility pervades the human frame, without a mafculine habit of body

forward, to benefit fociety. In this happy country of liberty, phyficians are upon a more equal rank; real abilities, and fuccefsful practice, will always procure friends and protectors, which no profeffional envy can crufh; nor can court edicts be obtained to banifh ufeful phyficians from ferving mankind in the manner moft agreeable to their fkill and inclinations. The royal college of phyficians in London, alone, have the power of interdicting improper perfons from practifing within feven miles of this metropolis; but it is hoped the cenfors of that learned body never exercise fuch power, from perfonal pique, or envious motives; but act on the liberal principles of the *falus populi*, in the fupprefion of quacks and impoftors; for which purpofe charters were granted, and extraordinary powers delegated.

body and mind; long-continued vexation has been productive of infane grief, melancholy, and fuicide.

The confciousness of immorality has caused despondency, desperation, and, lastly, infanity, or fuicide.

Injustice, cruelty, or murder have tortured the perpetrators and actors with the most pungent mental torments. The paths of frict justice are fraight and happy ; those of injuffice, low cunning, and deception, full of dangers, difgrace, or mazed perplexities. True wildom always purfues the former; left-handed wifdom, with various degrees of artifice, the latter. The recollection of barbarity or injustice, though it may have anfwered a temporary interested purpose, has flung the parties afterwards with remorfe, horror, despair, melancholy; they have been haunted with a thoufand hideous imaginary fpectres. Medicine feldom avails here, when the guilty mind, preying on its own depravity, has become infane.

Change of fituation, reparation of injuries, the conversation of friends, and attempts to direct the mind from its melancholy preffure,

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are the chief aids under fuch miferable circumftances.

The heart, fuddenly dilated by over-joy, has produced madnefs; therefore good intelligence fhould be delivered with prudence and circumfpection.

Diftentions of veffels, which include various madnefs, are of two fpecies.

1. Veffels are over-dilated, by an increafed force of the heart and arteries, with too flow a movement of blood in the veins; the effect of mental perturbation, acting powerfully on the heart in robust fubjects, whose muscular powers are strong, and cohering particles firm, joined with plethora, and viscidity of the blood.

2. Veffels can be over-diftended, and continue fo, from relaxation of their coats. The heart may be fufficiently powerful, with *fiimuli* of degenerated acrid blood, to force rapidly the irritating blood into the aorta, and this veffel into the arteries. The fibres of arterial coats, or the cohering particles forming mufcular fibres of arteries, may be lefs firm, joined with irritability of the nervous powers,

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powers, and, therefore, easier excited to action.

The muscular powers of the heart are often very lax and debilitated ; the fibres compofing this organ may be more irritable in proportion to the nervous irritability of other parts; or, the heart being over-excited by a sharp, debilitated, lax texture of the blood, its contractions and dilatations become rapid, though feebler. These causes conjointly produce the quick, low pulfe in hectic and other low fevers, occafion little heats or flufhings, univerfal or partial, by a rapider, though' in general a weaker arterial action. The acrid blood having a ftimulating quality fimilar to artificial stimuli, may act most powerfully in. parts, which have already fuffered diffention, and accuftomed to an inordinate excitement to action. Parts that have been once convulfed, on flight occasions are reconvulfed. Veffels once excited to a quicker action, which may be called a convulfed motion of their muscular coats, or muscles, from equivalent causes, are easily irritated to repeat increafed action. This is illustrated by any flight colds producing in various perfons their accustomed,

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accustomed, though different effects; as to the pleuritic, a pain in the fide; to the gouty or rheumatic, the gout and rheumatifm; to others, inflammations of the eyes, pains of the head, teeth, cough, intestinal complaints, &c. &c.

The veffels of the brain, then, having already fuffered differition with phlogifticated or dephlogifticated air, blood, or acrid fluids; the membranes and veffels may be re-irritated by vifcid, or too lax a blood, acrimonies, &c.

It has been already obferved, that the arterial coats of the arteries in the brain, are much thinner and weaker than in any other part of the body.

The first species may be called *tonical diftention*, the second *atonical diffention*. A great variety of difeases may be more accurately confidered under these two distinctions.

The former comprehends all the degrees of the true *inflammatory diathefis*, in which the blood is vifcider and of a firmer texture than ufual, with ftronger mufcular action; the latter, *atonia*, debility, relaxation of the nervous fyftem, &c.; in which the coherence of the blood and its texture are in various degrees laxer than ufual, and the mufcular powers weaker, though more irritable.

The tonical diftention is most common to the florid, robust, and vigorous; the atonical distention to the pallid, debilitated, and relaxed: one arises from the muscular powers acting strongly on the blood; the other, from the force, quantity, and pressure of acrimonious stuids, against the sides of over-irritable vessels, deprived of sufficient strength to make the proper resistance.

The examples of both may be illustrated, by confidering the differition of the veffels in the conjunctiva, during the ophthalmia.

In both the continual, and intermittent inflammation of the eyes, the veffels are preternaturally diftended with red blood; yet the former requires bleedings, evacuations, and antiphlogiftics; the latter, bark and tonics: the firft is a tonical diftention, the fecond an atonical diftention; in both cafes the veffels are dilated, but evidently from oppofite caufes.

Another illustration may be drawn from the differences between the true inflammatory tumors of fanguine temperaments, and the tumors in the *anafarca*. In the first, the cellulous cavities of the *tela cellulofa* are filled with

with red inflammatory blood, forced into the cells by the mouths of arteries accompanied with rednefs, pain, heat; in the fecond, the cellulous cavities are filled with *cold ferum*, with almost a transparent pallidity of the parts, not accompanied either by heat, rednefs, or pain. Nothing can be more contrary than these two causes giving rife to tumors; yet nothing would be more dangerous than to bleed plentifully in the dropfy, and prefcribe antiphlogistics; or to invigorate the overacting fystem by tonics, bark, steel, &c. in the inflammatory *diathefis*.

What cures the former, would do mifchief in the latter. From vifible and evident caufes, effects, and the remedies which remove them, may inferences be drawn highly conducive to the cure of the difeafed membranes, vafcular fructure of the brain, and all other membranous or vafcular parts.

It is evident, that *tonical* or *atonical* inflammation of the eyes produce fimilar appearances and acute pains; yet practitioners, from a want of this knowledge, have frequently failed in treating the ophthalmia. Let these doctrines be applied to the florid and

and robuft, or the pallid and weakened habits, and medical fuccefs will be more certain *.

In raving, or other fpecies of madnefs, attended with tonical diftention, the cure fhould confift, in repeated venæfection of the frontal, occipital, nafal, temporal, angular veins, or indeed the external jugulars, or in the arm, if punctures about the face fhould be objectionable.

The quantity of blood in the whole body requires reduction, to a confiderable degree.

Drastic, evacuating cathartics of jalap, nitre, and cremor tartar, or any other effectual purge repeatedly prefcribed, greatly affist in leffening the quantity of fluids.

Extreme dry diet : inanition of veffels, or of the cellulous cavities of the *tela cellulofa*, cannot long continue, unlefs great circumfpection be obferved in the quantity of liquids which the *infane* ufe.

Two ounces of tea, coffee, or milk, will be fufficient for breakfaft, with three ounces of bread, and a fmall portion of butter.

At

* See treatife on Difeafes of the eyes, &c.

At *dinner*, light food will be advantageous, with not above four ounces of liquid, whether table beer or water, and the fame weight of bread.

Vegetables should be sparingly eaten, as they are apt to create flatulencies. It has been already mentioned, that flatus in the œsophagus, stomach, or intestines, may obstruct the return of blood, or irritate the brain, &c.

As fubstitutes for drink, tamarinds, roafted apples, or any fruits in seafon, are proper; if they should not create too much flatulency.

If the infane perfon fhould have been indulged with tea in the afternoon, not above two ounces of that liquor fhould be drank.

For *fupper*, if any be eaten, a roafted apple and a little bread, with four ounces of the accuftomed drink, will be fufficient, which may be water, or cold tea.

Thefe remedies and regimen have performed feveral extraordinary cures in the true inflammation, diftended veffels of the eyes, and other inflammations : from analogy, great advantages may be expected in maniacal affections ;

fections; wherein the veffels of the brain fuffer from tonical distention.

The *medicines* most proper to act uniformly with fuch a regimen, are antiphlogistics; nitre, camphor, neutral or alcaline falts, as the fal fodæ, fal tartari, fal polychrestus, &c., antimonial diaphoretics, and laxatives.

In a few recent maniacal affections, with tonical diftention, I have fuccefsfully prefcribed the following, or fomething fimilar:

No. 93. R. Camphor. gr. x. ad ∋j. Amygd. decort. No. vj. Sacch. alb. gr. xv. tere fimul, deinde adde gradatim Aq. pur. žij. Sal nitr. 3fs. F. hauftus, quartâ vel fextâ quâque horâ fumendus.

To keep the intestines constantly in a lax state :

No. 94. R. Elect. lenitiv. žiij. Pulv. crem. tart. žís. — jalap. aa. žij. Syr. fimp. q. s. F. elect. cujus capiat Q. N. M. bis vel ter de die.

The decoEtum nitrofum may accompany the antecedent regimen and medicines, pro potu Vol. II. G ordinario, ordinario, but not to much exceed the quantities prefcribed.

Thefe, or fimilar plans, continued many months, would most probably cure madness, when principally arising from *tonical distention*.

The evacuating plentifully the fluids of the body, must certainly empty the veffels of the brain.

The emptying of veffels being continued for many months, or perhaps a year or two, by the *dry antipblogiftic* regimen, may permit the coats of the veffels to recover their former fize; from the canals being continually emptier, and contracting and accommodating themfelves to the force and quantity of the circulating fluids.

Nitre and campbor acting chiefly as fedatives, whofe excellent qualities I have experienced near thirty years in the *phrenitis* and *delirium*, in inflammatory fevers, &c. are very proper to diminifh arterial action, or by acting as antifpafmodics on the nervous fyftem, diftracted by *tonical diftention*.

Laxatives conftantly taken, strike at the very root of repletion, by not fuffering the lactea-

lacteal fystem to abforb much of what enters the stomach or intestines.

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Profuse fweating is, likewise, amongst the evacuants of superabundant fluids.

If a diaphorefis fhould be thought neceffary, one or two drams of the *folutio antimonialis* may be added to the draughts, fo as never to excite vomiting.

SOLUTIO ANTIMONIALIS.

No. 95. R. antimon. tart. gr. j. folve terendo in Aq. pur. 3j.

In certain cafes, wherein drink cannot be difpenfed with, water acidulated with vinegar, with or without nitre, will be beneficial; as it is cooling, and *diminifhes lacteal abforption*.

Large doses of vinegar, without any other remedy, have cured the mania *. Vinegar acts as a diaphoretic and refrigerent in many fevers; it diminishes nutrition by contracting the lacteal absorbent vessels, and perhaps G_2 would

* Bergius M. M. vegetabil. p. 164. De aceti vini egregiis virtutibus medicis bene differuit Jos. Benvenuti in Nov. Act. Ac. N. C. vol. ii. p. 132, feq.

De felici effectu aceti in mania larga dofi propinati, obfervationes pulchras edidit, Locher in Obf. Pract. p. 68, would be very efficacious with water, as a drink for the infane, whofe state of stomach or intestines do not contra-indicate the use of vegetable acid.

The cure, then, of infanity arifing from, or accompanied with tonical diftention of veffels, depends on depletion, the preventing repletion with the use of antiphlogistic regimen, and remedies.

The cure of infanity with atonical diftention, pallor of countenance, or fallownefs, debility in the moving mufcular powers, or a depraved ftate of the blood, and, of courfe, all other human fluids, will be comprehended from its oppofition to the former fpecies.

The natural flate of the patient's conflitution fhould be confidered, before the infanity commenced; to difcover, whether the appearances of pallor, fallownefs, or depraved blood pre-exifted; if they did, with fo much the more difficulty can the conflitutional depravations be changed, either by diet or medicine.

The mania or melancholy appear both in the tonical and atonical diffention, and fometimes are complicated, as far as I have been able

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able to collect from those conversant in maniacal affections. The modes of cure must be complex, if diforders originate in compound causes.

In the *atonical diftention* of veffels, after proper evacuants of the cathartic kind, tonics of bark, elixir of vitriol, cold bathing, and exercife, fhould be prefcribed.

The diet may be equally of the *dry kind*, as in the *tonical diftention*, but more nutritious, in order not only to change the lax texture of the fluids, but likewife to give more firmnefs to the folids. The blood being diminifhed, and the folids firmer; the diftended veffels will gradually contract, and, in time, refift the milder impulfe of healthier fluids*.

The feafons of the year and climate fhould be adverted to; for when the air be cold and humid, lefs drink is to be permitted, than in dry and fultry weather.

The excretions are likewife not to be neglected; for when they be copious, more drink is to be allowed, than when perfpiration, urine, or feces be long retained, or evacuated

* Dr. Perfect, of Town Malling, Kent, has published fome extraordinary cures of madness by the plans here recommended.

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cuated in fmall quantities : but thefe circumftances are to be afcertained by the portion of the foods daily received.

It appears rational, in either fpecies of madnefs, that in proportion to the force of the infanity, and length of time it has continued, a longer fpace of time is proportionably required for its removal. Veffels once diftended, in fome conflitutions, may require months, or years perfeverance, in the most rational plans, to obtain a cure, and defend the patient from a relapse *.

Acrimony, joined with diffention of veffels, may be of various fpecies, and may greatly augment,

* An officer, a most worthy man, who was in his Majesty's fervice with me in the French and Spanish war of 1761, to 1763, was apt to drink a cheerful glass, which always rendered him raving mad, and extremely troublesome to his brother officers: the delirium lasted two or three days; but I always cured him by acetum and water, bleeding, &c. He committed a rash action in one of these fits, which, when sober, made him determine never to drink any thing but water: this fudden change of diet foon produced anafarcous swellings, but by chalybeates and a dry diet he was cured. It is now a period of 25 years or more fince he commenced his water-drinking plan, which he has constantly continued without any return of madness, but apprehends, that spirituous liquors would foon produce a relapse. This great change of diet, though falutary to this individual patient, might be injurious, or fatal to many others.

augment, or continue the effects on the brain in madnefs.

The acrimony most prevailing, whether inflammatory, in which a greater quantity of coagulable lymph, or in any debility, in which a lefs portion of coagulable lymph, but a greater of ferum, abound, should be confidered.

The former requires evacuants, antiphlogiftics, refolvers of the coagulable lymph, fuch as diluted alkaline falts, whether foffile or vegetable, as the *fal fodæ* or *fal tartari*, and fimilar remedies; the latter tonics.

The fcrophulous, venereal, gouty, or rheumatic acrimony, is to be removed by antivenereal and metallic alteratives; amongft which, hydrargyrus and antimony joined, claim the preference as most fafe and effectual. They may be repeatedly given, if well prepared, in fmall doses, after my manner, without disturbing the most delicate constitution. Prefcriptions of this nature will be found in the former part of the treatife, as correctors of chronical acrimony, and cause-removing remedies.

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The *pineal gland* has been found morbid, withered, indurated, and dry, in ideots; but as the abforbent lymphatic fystem is not difcoverable in the brain, it is doubted, whether this affection could produce madnefs.

The gouty, rheumatic, fcorbutic, or any other prevailing acrimony, fhould be treated according to circumftances. In all which cafes, the blood must undergo a thorough change, or no fuccess need be expected.

Accumulations of ferum, or coagulations in the brain, being amongst the causes of infanity, their removal, if possible, should be effected : these congestions feldom happen, until the diforder has ravaged many years.

In conjunction with the methods already recommended, in *tonical* or *atonical diffention*, profufe fweating, without much drinking, will be ufeful.

The vapor baths; or antimonial folution, fo as not to vomit, or vinegar whey, or vinegar and water, or any other certain diaphoretic, continued many days, feem most likely to diflodge and evacuate the accumulated or offending matter. If these should prove unfuccessful, then a long-continued mineral alterative course gives the best, though doubtful, prospects of relief.

Blifters to the head, neck, and back may be prefcribed, cupping, iffues, or fetons.

The coagulated ferum in the interflices of the brain, most likely, may be removed by a long perfeverance in the more powerful metallic alteratives, nitre, and camphor*. This I mention from analogous reafoning. Glandular tumors, and many accumulations and obstructions have been difcuffed in other parts by these means, and it is rational to conclude, that the brain itself and membranes, suffering from such causes, may be relieved by similar remedies, given in the new manner +.

Exoftofes

* See *treatife* on difeafed breafts, and the new modes of adminiftering *alteratives*, their manner of operating, powers, and various preparations in chronic difeafes, king's evil, fcirrhus, cancers, ulcers, and all depravities of the blood.

+ Several new modes of preparing, and administering mineral alteratives, I have invented; which will be communicated in a small treatise on those subjects, in addition to those already published.

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Exoftofes preffing on the brain, or in the longitudinal finus, &c. are incurable; fuppofing they were difcoverable, unlefs their exact fituations were known, and the trepan could be with fafety performed, which hazardous operation is not applicable to the finufes.

Preternatural drynefs, or palfy of the veffels of the brain, which most commonly happen in the last stages of infanity, might be treated with diaphoretics, stimulants, or metallic alteratives long repeated; though little or no fuccess may be expected. In difficult cases, however, it is more humane to try fome probable remedy, rather than totally defert the patient; especially where no mischief can accrue from the attempt.

Indurations of the brain indicate a fimilar prognoftic, and attempts to cure with the former.

The four laft caufes, namely, accumulations or coagulum of ferum, bony concretions, preternatural drynefs, or induration of the brain, are not difcoverable during life. Diffections after death have fhewn their

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their existence; therefore, to prevent them in life by the antecedent remedies, is, perhaps, the most that medicine, however skilfully applied, can rationally attempt.

Florid complexions with mania, and ftrong mufcular powers; or where the brain acts with great energy and violence, require powerful evacuants and relaxants.

The pale, melancholic, and debilitated, tonics, cold bathing, &c. *

The acrimonious, alteratives of the mineral clafs, &c.

Opium, a noble remedy in many difeafes, has been recommended in maniacal affections; to the use of which are the following objections:

1. It cannot cure madnefs, nay, it is known often to increase the paroxysms of furor.

2. Suppofing it would allay irritation by diminishing the nervous influence and arterial

* I lately cured a young lady of a melancholic fpecies of madnefs, by two grains of the *pulvis alterans* in a pill, three times a day, and large dofes of nitre and camphor. The *pulvis alterans* is wafhed calomel, which has been 12 times fublimed, or fix times fublimed, if the former be not procurable, and fulph. aurat. ant. p. æ. *rubbed together* for 10 pr 12 hours.

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terial action, yet these effects would be diametrically opposite to every rational attempt to remove the causes of the difease; for if madness be principally caused by fluids, over-distended vessels, and a tardier circulation through the veins; or from accumulations or stagnations in the brain; opium, by its fedative properties, would be more likely to fix the diforder in those parts, than remove it.

3. In perturbations of mind, amongft the nervous and eafily irritable, opium produces wanderings of the fancy, delirium, and diftracted pains of the head, fimilar to ftrong intoxicating liquors. If its fedative powers act on the nervous fystem, this checks the circulating arterial pulfations, by leffening the irritability of the heart, and mufcular fibres of arteries, rendering their action flower; hence a greater quantity of blood may be collected and retained in the brain; which counteracting, as in madnefs, the nervous animal principle is productive of phrenzy, delirium, &c. in proportion as the party who takes opium is nervous, and irritable in mind and body.

4. It occasions costiveness, which in madness should always be prevented; there are likewise many other objections, not necessary to be recited on the present occasion.

5. Opium, therefore, as it cannot rationally be prefcribed but as a mere palliative pro tempore; the effects of which, are never permanent, but by a repetition and increase of its dose; incurable cases excepted, it is excluded in treatment of madness, as contrary to the cure recommended.

This is not intended merely to palliate at the expence of future mifchief; but to eradicate, if poffible, the very caufes of that melancholy diforder.

If allayers of irritation be thought neceffary, camphor and valerian are most proper for the *tonical distention*; and the fetid gums, as afafætida, myrrh, fagapenum, olibanum, &c. in *atonical distention*; which must be left to the skill and judgment of the prefcriber.

Thus have been explained, and communicated, many new doctrines concerning madnefs, its caufes, and cure. The *data* or *facts* on which these principles have been con-

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conftructed, are anatomical inquiries, the moft certain of all, and inductive reafonings from the morbid appearances of parts, conftituting many new lights on infanity. Several methods of cure, hitherto unattempted, are drawn from the foregoing reafonings, and above thirty years conftant and extensive experience and reflection on the powers of medicine in every branch of the art.

If the curative modes recommended fhould, as they muft, in feveral inftances fail; yet the caufes of this failure, from contemplating what is here advanced, will be better underftood, than heretofore. The next ufeful knowledge to curing difeafes, is, to comprehend, and give the reafons, why cures fhould not be expected. This is the diftinguifhing mark of real medical learning, contrafted to rafh boafting, and delufive empiricifm.

One of the moft ancient and moft curious anecdotes concerning madnefs, is amongft the works of Hippocrates, who was called by the Abderites to come to Abdera to cure Democritus of infanity. The embaffy and epiftles on this famous occasion demon-

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demonstrate the origin of the doctrine of madnefs, as arifing from *black bile* or *melancholy*, which opinion prevailed for above 2000 years.

The most confiderable circumstance concerning Democritus is, the diffection of animals to difcover the caufe of madnefs. His countrymen, observing him to purfue thefe kind of studies, which were very extraordinary in those ages; retiring and living in fepulchres; engaged in the deepeft contemplation; they concluded, he was in a state of melancholy madness. This is no uncommon compliment to all men of extraordinary genius, or who poffefs an elevation of fentiment above the generality of contemporaries .- Democritus continually laughing, on all occafions, whether ferious or mirthful, confirmed their sufpicions. For this reason, they sent Amelesagoras, one of their chief citizens, to Hippocrates, that most eminent physician at Cos, with the fubfequent epistle. *

* .. The Senate and People of Abdera to Hippocrates. Health.

" Our city, Hippocrates, is in very great danger, together with that perfon, who, we hoped, would ever have been its greateft

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greatest ornament. But now, (O ye gods !) it is much feared, that we shall only be capable of envying others, fince he, who, through extraordinary fludy and learning, elevated the city, is fallen fick : fo that it is much apprehended, if Democritus become mad, our city Abdera will be defolate : for, wholly forgetting himfelf, watching day and night, laughing at all things, fmall and great, and effeeming them as nothing ; he occupies, after this manner, his whole life. One marries a wife; another trades; another pleads; another executes the office of magiftrate; goes on an embaffy; is chofen officer by the people; is rejected; falls fick ; is wounded ; dies : he laughs at all thefe : on beholding fome to appear difcontented ; others pleafed. He likewife inquires, what is done in the infernal regions, writes his contemplations, and affirms the air to be full of images; that he understands the language of birds, and often, rifing in the night, fings to himfelf; and fays, that he fometimes travels into the infinity of things; and afferts that there be innumerable Democritus's like him. Thus, together by the exercise of his mind, he deftroys his body. Thefe are the things we fear, Hippocrates ! thefe are those which deeply afflict us. Come quickly, therefore, and preferve us by your advice. Defpife us not; for we are not inconfiderable; and if you reftore him, we shall not fail, either of money or fame. Though you may prefer learning before wealth, yet accept of the latter, which shall be prefented to you in great abundance.

To reftore Democritus to health, if our city were all gold, we would give it. We think our laws, Hippocrates, are fick. Come then, thou beft of men, and cure a most excellent perfon. Thou wilt not come as a physician, but as the founder of all Ionia, to encompass us with a facred wall. Thou wilt not cure a man, but a city, a languishing fenate; and prevent its diffolution: thus becoming our law-giver, judge, magistrate, and preferver. To this purpose we expect thee, Hippocrates; all these if you come, you will be to us. It is not a single obscure city, but

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but all Greece, which implores thee to preferve this body of wifdom. Imagine that learning herfelf comes on this embaffy to thee, begging that thou wilt free her from this danger. Wifdom is certainly allied to every one; but efpecially to us who live fo near her. Know for certain, that future ages will acknowledge themselves obliged to thee, if thou defert not Democritus, for he is capable of communicating the truth to all mankind. Thou art allied to Æsculapius by thy family, and by thy profession. He is descended from the brother of Hercules, from whom came Abderus, whofe name, as you have heard, our city bears; wherefore, even to him, will the cure of Democritus be acceptable. Since therefore, Hippocrates, you fee a whole people, and a most excellent perfon falling into madnefs, haften, we befeech you, to us. It is ftrange, that the exuberance of good fhould become a difeafe. Democritus, by how much he excelled others in acutenefs of wifdom, is now in fo much the more danger of being mad, whilft the common, unlearned people of Abdera enjoy their fenfes as formerly; and even they, who before were efteemed very foolifh, are now most capable to dif. cern the indifposition of the wifest perfon. Come, therefore, and bring along with you Æ (culapius, and Epione, the daughterof Hercules, and her children, who went in the expedition against Troy : bring with you the receipts and remedies against ficknefs. The earth plentifully affords fruits, roots, herbs, and flowers to cure madnefs, and never more happily than now, for the recovery of Democritus. Farewell.

Hippocrates returned this anfwer.

Hippocrates to the Senate of Abdera. Health.

Your countryman Amelefagoras arrived at Cos that day on which was celebrated the affumption of the rod, which, as you know, is an annual affembly and folemn feaft amongst us, held at a cyprefs tree, which is carried by those particularly confecra-Vol. II, H ted

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ted to the god. But finding by the words and countenance of Amelefagoras, that your bufinefs required much hafte, I read your letter, and much wondered to find your city no lefs troubled for one man, than if the whole city were but one man. Happy indeed are the people, who know that wife men are their defence; not walls and bulwarks, but the found judgment of wife perfons. I conceive the arts are the difpenfations of the gods, men the works of nature; and, be not angry, ye men of Abdera, if I conceive, that it is not you, but nature itfelf, which calls me to preferve her work, which is in fuch imminent danger of falling.

Wherefore, obeying that which is the invitation of nature and of the gods, rather than yours, I shall make hafte to cure the ficknefs of Democritus, if it be a ficknefs; and not, as I hope, an error in you. It would be yet a greater testimony of your good-will, if you were troubled only on fufpicion. Neither nature nor the gods have promifed me any thing for my coming; and therefore, men of Abdera, do not you force any thing upon me; but fuffer the works of a liberal art to be free. They who take rewards, compel fciences to fervitude, and make them flaves, depriving them of their freedom. Befides, it is poffible that fuch may diffemble in a great difeafe, and deny in a little; and when they have promifed, not come, and come, when they are not fent for. Miferable indeed is human life; for that the infatiate defire of wealth continually invades it, as a winter wind ! I wifh that all phyficians would join together to cure it of this difeafe, which is worfe than madnefs; notwithstanding it is thought happy, but is indeed a peftilential ficknefs. All diftempers of the mind are, as I conceive, high madnefs; for they excite, in the reafon, ftrange opinions and fancies; which reafon must be purified, and cured by virtue. As for me, if I at all made it my defign to be rich, I would not, ye men Abdera, come to you for ten talents; but would rather have gone to the great king of Perfia, where there are vaft cities full of all kind of - wealth :

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wealth : there I would have practifed phyfic ; but I refuted to cure a nation which are enemies to Greece ; and to the beft of my power have myfelf oppofed the barbarians. I thought it a difhonour to accept the wealth of a king, foe to our country, by which means I might become a deftroyer of Greece. To get wealth, by all means, is not to be rich; the principles of virtue are facred and juft. Do you not think it an equal offence to cure our enemies, as to take money for the cure of our friends? But this is not my cuftom. I raife no wealth out of *ficknefs*; nor did I wifh, when I heard Democritus was mad, that it might prove fo in reality : if he fhould be well, he is a friend ; if he happen to be cured of his ficknefs, more a friend. I underftand that Democritus is a perfon of firm and fettled parts, the ornament of your city *.

It is faid that Hippocrates, in order to perform this voyage; fent to his friend Dionyfius to take care of his family in his abfence; to Damagetus, that he would provide a fhip; to Crateras, that he would furnish him with medicaments.

How Hippocrates was received the next day at Abdera, he gives the following defcription to his friend Damagetus.

To Damagetus. Health.

It was as I conjectured, Damagetus; Democritus is not mad i but is extraordinary wife; and hath taught us wifdom; and with us, all men. I have fent back, with many thanks, the Æfculapian ship, on the prow whereof, to the picture of the sung

H 2

* Artexerxes offered an hundred talents to Hippocrates to come into Afia, and cure a peftilence, which defolated the provinces and army. The fum, in filver talents, is fuppofed to be 35,000l. in gold about 400,000l. This fhews the great riches of the Afiatics, and the patriotic virtue of that noble Greek to refift the temptation, though the ifland was threatened with a dangerous war. Men have been lefs for pulous in our refined times: whenever they have an opportunity of acquiring immenfe wealth, per fas wel nefas.

may

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may be added health; for we made a quick voyage, and arrived the fame day, that I had fent word I could be at Abdera. I found all the people flocking together at the gate, in expectation, as it appeared, of our coming; not only men, but women, the old and the young, and by Jove, the very children; fo much were they affected at the madnefs of Democritus, who at that time was ferioufly employed in philosophy. When they perceived me, they feemed a little to be comforted, and to have fome hope. Philopæmen offered to conduct me to my lodging, as all of them likewife defired; but I told them, Men of Abdera, I will do nothing before I have feen Democritus; which, they no fooner heard, than they applauded, rejoiced, and brought me immediately along the forum; fome following, others running before, crying out, Great king, Jupiter, help! heal! I advifed them to be comforted; for that it being the feafon of the Etefian winds, I was confident, there was not any fickness that would continue long : and, in faying this, on I proceeded. The houfe was not far, nor indeed the city; we went to it, being near the city walls, whither they conducted me quietly. Behind the tower there was a high hill, very full of tall poplars; from whence we beheld the habitation of Democritus. Democritus himfelf fat under a fhady, but low plane-tree: in a thick grove, all alone, fqualid, upon a feat of ftone, wan and lean, with a long beard. At his right hand, a little brook ran down the hill; upon which was a temple confecrated, as it fhould feem, to the mufes, encompaffed with vines, which grew there fpontaneoufly. He fat very composed, having a book on his knees, and round about him lay other books; with the bodies of many animals diffected. Sometimes he wrote haftily; fometimes paufed, feeming to confider things within himfelf. Soon after he arofe and walked, and intently examined the diffected creatures; then laid them down again, and returned to his feat. The Abderites, flanding about me, and hardly refraining from tears, faid, You fee, Hippocrates, the life of Democritus, how mad he is ; he knows neither what he

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he would have, nor what he does. One of them, who would have given me a farther description of his madness, on a sudden fell a fobbing, and howled like a woman at the death of her fon, and then began to lament like a traveller robbed of his goods ; which Democritus hearing, fometimes fmiled, fometimes laughed, not writing any longer, but shaking his head. Men of Abdera (faid I) remain here, while I approach nearer; that, by hearing him fpeak, and observing his constitution, I may judge clearly of the diftemper : in fo faying, I went gently down ; the place was very fleep, fo that I could hardly keep myfelf from falling. When I came near, it happened that he was writing fomething, in a rapture, earneftly; whereupon I halted, waiting till he fhould give over. It was not long before this occurred; and, perceiving me advance towards him, faid, Hail, ftranger! I anfwered, Hail alfo, Democritus, the wifeft of men! He, as I imagine, a little concerned that he had not faluted me by name, replied, What may I call you ? for my ignorance of your name is the reafon that I ftyled you ftranger. My name, faid I, is Hippocrates, the phyfician. You are, faid he, the glory of the Æsculapians, the fame of whose worth, and knowledge in physic, is arrived as far as me. What bufinefs has brought you hither ? but first fit down. This feat, you fee, is pleafant, green, and foft; better than high thrones, which are fubject to the envy of fortune .- When I was feated ; is it a public or a private bufinefs, faith he, which brought you here ? tell me freely, and we shall, to our utmost power, affist you. I answered, It is on your account that I came hither, to be acquainted with you, a wife perfon, the occafion being afforded me by an embaffy from your country. He replied, then let my houfe entertain you. Having thus made trial of him feveral ways, and not perceiving any thing like infanity; You know, faid I, Philopæmen, one of this town? Exceeding well, anfwered he, you mean the fon of Damon : he lives near the Hermæan fountain. The fame, replied I; he has been an old acquaintance, and kindly received me for his gueft. But you, Democritus, I intreat to afford me a better entertainment ;

and,

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and, first tell me, what it is that you are writing. He, after a little pause, answered, concerning madness. Good Jupiter, faid I, you write feafonably against the city ! What city, Hippocrates? answered he. I replied, that I only spoke at random. But what do you write of madnefs ? What elfe faid he, but explaining what it is, how it comes to be generated in man, and how it may be cured. Thefe animals which you behold, I have diffected for that purpofe; not as hating the works of the gods, but to make enquiry into the nature and feat of choler. You know, where bile abounds too much, it most commonly caufes madnefs in men : it is in every perfon; but in fome lefs, in others more: its excefs caufeth difeafes, being a matter partly good, partly bad. By Jove, faid I, Democritus, you fpeak truly and wifely, and I judge you happy, who can enjoy a ferenity I cannot partake of. But why cannot you ? faith he. I anfwered, Becaufe either travels, children, or eftate, fickneffes, deaths, fervants, marriages, or the like, interrupt my repofe. Hereupon he fell into his ufual paffion, and laughed for fome time exceedingly, fufpending difcourfe. Why, faid I, Democritus, do you laugh? Whether is it, that I have fpoken well or ill ? Upon this, he laughed more than before, which the Abderites, who flood a diffance off, perceiving, fome flook their heads, others beat their foreheads, others tore their hair; for, as they afterwards faid, they obferved him to laugh at that time more than ever he had before. Democritus, thou beft of wife men, replied 1, I defire to know the reafon of this paffion ? What have I faid that feems ridiculous ? for if it prove fuch, I may reform it ; but if otherwife, you may defift from this unreafonable laughter. By Hercules, faid he, if you can convince me, Hippocrates, you will effect a cure greater than any you have yet performed. Wherefore, faid I, fhould you not be convinced ? Know you not, that you act abfurdly in laughing at the death of a man, ficknefs, madnefs, murder, or any thing worfe than thefe; and on the other fide, on marriages, affemblies, the birth of infants, folemn rites, magiftracies, honors,

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nors, and, generally, at every thing that is nominated good ? Those things which deferve to be pitied excite laughter; and those, for which we should rejoice, you laugh at alfo; therefore you appear not to place any difference between good and evil. Then he, You fpeak well, Hippocrates ! but you are not yet acquainted with the reafon of my laughter, which, when you know, I am confident you will prefer to the caufe for which' you travelled here, and convey it as a medicine to your own country, thereby improving both yourfelf and others. In requital, perhaps you will think yourfelf obliged to teach me phyfic; when you fhall understand, what trouble all men take for things that deferve not labor, things of no value, and confume their lives unprofitably in actions that deferve nothing but ridicule. What, faid I, is all the world fick, and knows it not? If fo, they can fend no where to folicit help: for what is beyond the world ? He replied, There are infinite worlds, O Hippocrates; have not fo mean an idea of the riches of nature! Teach me this, faid I, Democritus, fome other time : for I am afraid, if you begin to talk of this infinity, that you will fall again into a fit of laughter. But now inform me the reason, that you laugh at the accidents of life. Then looking stedfastly upon me, You think, faith he, there are two circumftances occafioning my laughter ; good and ill ; whereas indeed I laugh but on one principle. Man, full of folly, deftitute of upright actions, playing the infant in all his defigns, undergoing great toils for little benefit, travelling to the end of the earth, and founding bottomlefs depths to get filver and gold ; never ceafing to accumulate, and with an increase of ftore, increasing endless troubles; left, if he fhould want, he might be thought miferable. He digs into the bowels of the earth by the hands of flaves; whereof fome are buried by the earth falling on them; others dwell under ground, as though it were their native foil, fearching for gold and filver, fifting one fand from another; cutting and tearing their mother earth, which they both admire and trample. How ridiculous is this, to love that part

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of the earth which lies hid, and condemn that which lies open to them! Some buy dogs, others horfes; fome delight in having large poffeffions, which they may call their own, and would command multitudes, when they are not able to command themfelves. They marry wives, and in a fhort time are divorced; they love, and then hate; they take delight in children, and when they are grown up, difinherit them; they war, and defpise peace : they confpire against kings, murder men, dig the earth to find filver, with the filver they have found they buy land; what the land which they have bought yields, of corn or fruits, they fell, and receive filver again. To what changes and misfortunes are they fubject! When they poffefs not riches, they defire them, when they are acquired, they are hid, or fcattered. I laugh at their ill-defigned projects, I laugh at their misfortunes. They violate the laws of truth, through contention and enmity with one another; brethren, parents, and countrymen, fight and kill each other for those poffeffions, of which, after death, none can be poffeffors. They purfue an unjust courfe of life; they despife the poverty of their friends and country; mean and inanimate things they account for riches: they will part with a whole effate to purchase flatues, becaufe the ftatue feems to fpeak ; but those who fpeak indeed, they hate. They affect things difficult to be acquired; they who dwell in the continent, covet the productions of the fea ; they who inhabit iflands, those of the continent; perverting all things to their own depraved defires. In war they praife valor, while they are daily fubdued by luxury, avarice, and all paffions; and in the course of his life every man is a Thersites. Why did you, Hippocrates, reprove my laughter? No man laughs at his own infanity, but at the madnefs of another. They who think themfelves to be fober, laugh at those who appear to them to be drunk ; fome laugh at lovers, whilft they themfelves are fick of a worfe diftemper; fome at those who travel by fea, others at those who follow husbandry; for men do not agree with one

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another,

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another, neither in arts, nor actions. All this faid I, Democritus, is true; neither is there any argument that may better prove the unhappy flate of man; but these actions are caused through neceffity, by reason of the government of families; the building of fhips, and other civil offices, wherein a man muft neceffarily be employed ; for nature did not produce him to be idle. Again, height of ambition caufes feveral men to deviate from the paths of justice; they aim at all things, as if there were nothing immoral; not being able to forefee the darknefs that attends their futile attempts. For, Democritus, what man is there, that, when he marries, thinks of divorce or death ? Who is there, who, while he educates children, thinks of lofing them? The like on hufbandry, navigation, dominion, and all other offices of life. No man forefees, that his expectations may prove abortive; but every one flatters himfelf with hopes of good fuccefs. and does not anticipate the worft. Why therefore is this ridiculous? Democritus replied, you are yet far from understanding me, Hippocrates, neither perceive, through want of knowledge, the bounds of ferenity and perturbation; for if they ordered thefe things prudently, they might eafily difcharge their duty, and evade my laughter; whereas now, they are blind to the offices of life, and with minds void of reason, are carried away by inordinate appetites. It were enough to make them wife, if they would but confider the mutability of things, how they wheel about continually, and are fuddenly changed; whereas they, looking upon thefe as firm and fettled, fall into many inconveniences and troubles, and correcting things injurious, they tumble headlong into many miferies. But if a man would rightly confider, and weigh in his mind all things that he attempts, underftanding himfelf, and his own abilities, he would not let his defires run to infinite, but follow nature, out of whofe ftore all are nourifhed and fupplied. As a corpulent body is in the greatest danger of fickness, fo a high estate is in greatest danger of falling. Great minds are known in extremities. Some there

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there are, who, taking no warning by that which happeneth to others, perifh by their own ill actions; minding things manifest, no more than though they were not manifest; whereas they have many precedents to guide their life, of things effected and not effected, by which we ought to forefee the future. This is the occasion of my laughing. Foolifh men, punished by their own wickednefs, covetoufnefs, luft, enmity, treachery, confpiracy, envy: it is a hard thing to give a name to many of thefe evils, they being innumerable, and practifed fo privately. Their behaviour as to virtue is still worfe; they affect lies. they follow pleafure, difobeying the laws: my laughter condemns their inconfideratenefs, who neither fee nor hear; whereas the fenfe of man only, of all others, is able to forefee future events. They hate all things, and then again apply themfelves to them; they condemn navigation, and yet fail on the fea; defpife hufbandry, then fall a plowing ; put away their wives, then marry others; they bury their children, beget more, and bring them up; they wish to live long, and when old age comes, are grieved; never remaining conftant in any ftate whatever. Kings and princes commend a private life; private perfons a public. He that rules a ftate, praifes the tradefman's life, as free from danger; the tradefman applauds the courtier, as full of honor and power; for they purfue not the direct, true, and fmooth way of virtue, in which none of them will endure to walk, but crooked and rough paths. Some tumble down, others run themfelves out of breath, to overtake fuperiors in fortune or reputation. Some are guided by incontinence to the beds of their neighbours; others are fick of a confumption, through infatiate avarice. Some, by ambition, are carried up into the air, and through their own wickednefs, thrown down headlong. They pull down, and then they build; they do good, and oblige others, then, repenting, break the laws of friendship, commit wrong, fall at enmity, and fight with their nearest relations; of all which, avarice

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avarice is the caufe. Wherein do they differ from children that play, whole minds, being void of judgment, are pleafed with every thing they meet with? In their defires they differ not much from brute beafts; only the beafts are contented with that which is enough. What lion is there that hides gold under ground ? What bull fights for more than he needs ? What leopard is infatiably greedy ? The wolf, when he has devoured as much as ferves for his neceffary nourifhment, gives over; but whole days and nights put together are not fufficient for men to feast and riot. All brute beasts have their yearly fet times for coition, and then leave; but man is continually transported with luft. How can I, Hippocrates, but laugh at him that laments the lofs of his goods? and efpecially if, without regard to dangers, he travels over precipices and on the fea, how can I forbear to laugh exceedingly? Shall I not laugh at him whole thip founders, by lading it with rich merchandize, and then blames the fea for finking it? If I feem injudiciously to laugh at thefe, there is, at least, fomething that deferves to be lamented. These stand not in need of the phyfic nor medicines of your predeceffor, Æfculapius, who. preferving men, was ftruck dead by thunder *. Do you not fee, that I am alfo partly guilty of infanity, who, to inquire into the caufes of madnefs, diffect thefe feveral living animals, whereas, indeed, I ought to fearch for it in man himfelf? Do you not fee that the whole world is full of inhumanity, fluffed. as it were, with infinite hatred against man himfelf? Man is from his very birth a difease : when first born he is useles, and fues for relief from others: when he grows up, foolifh, wanting inftruction : at full growth wicked; in his decaying age miferable, toiling, throughout all his time, imprudently. Such he is from the womb. Some being of furious, angry dif

* Æsculapius, the fabulous histories inform us, was destroyed by thunder.

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dispositions, are continually engaged in quarrels; others in adulteries and rapes; fome in drunkennefs; others in covering the goods of their neighbours; others in confuming their own: fo that if the walls of all houfes were transparent, we should behold fome eating ; others vomiting ; others wrongfully beaten ; others mixing poifons; others confpiring; others caffing accounts; others rejoicing; others weeping; others plotting against . their friends; others raving mad with ambition. Some actions there are more remote within the foul. Some young ; fome old; fuing; denying; poor; rich; ftarved; luxurious; fordid; imprifoned; murdered; buried; defpifing what they poffefs, and aiming at what they have not; impudent; niggardly; infatiate; vain-glorious. Some fetting their minds on horfes; others on men; others on dogs; others on ftone and wood. Some affect embaffy ; others the command of armies; others facred rites. Some wear crowns; others armor. Some fight at fea; others at land; others till the ground. Some plead in the forum; others act on the theatre : every one is differently employed. Some embrace pleafure and intemperance; others reft and idlenfs. How then, can I but laugh at their conduct? It is to be feared that your art of physic will not please them; for intemperance produces frowardnefs, they efteem wifdom, madnefs; and I doubt much, that many things in your art are openly reproached, either through envy or ingratitude: for the fick, when they are cured, afcribe the caufe either to the gods or chance. Many are of fuch a difposition as to hate those who have obliged them, and can hardly refrain from being angry if they have occasion for affistance. Numbers alfo, being themfelves ignorant, prefer ignorance before science. Fools give their fuffrages; neither will the fick commend; nor they, who are of the fame art, give their approbation through envy. It cannot be, but you must have fuffered injury of this kind; for I know very well, that you have often been treated unworthily, and reproached by malice and envy. There is no know-

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knowledge, nor atteftation of truth. In faying this, he finiled, and feemed to put on a divine look, cafting off that which he had before. Then I faid, excellent Democritus, I shall carry back with me to Cos the great gifts of your hospitality, full of your wife inftructions. I shall return to proclaim your praifes; for that you have made inquiry into human nature, and underflood it. I shall go away cured in mind, it being requisite, that I take care for the cure of the bodies of others. To-morrow, and afterwards, we shall meet here again : which faid, I arose, and he readily accompanied me. A man came to him, from whence I know not, to whom he delivered his books. When I came to the Abderites, who all this while flaid for me-Men of Abdera, faid I, I return you many thanks for the meffage you fent; for I have feen Democritus, the wifeft of men, who only is able to reduce men to found understanding. This, Damagetus, is all I have, with pleafure, to relate to you concerning Democritus. Farewell!

Thefe epiftles, tranflated from the Greek of Hippocrates, give an admirable defcription of that most excellent of men, Hippocrates, whose noble foul exerted its utmost efforts to relieve the afflicted, and prove ferviceable to fociety:—an example well worthy of imitation—an example which, if followed, must raife medical reputation above all the detraction and calumnies of malicious enemies. Great, however, as Hippocrates was, his fuperior excellence excited envy among physicians of inferior abilities: these frequently compose the majority

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in most liberal professions. Great minds only can pursue noble objects, and attempt actions above the vulgar comprehension, but little minds industriously employ their whole genius in fervilely adapting themfelves to the common prejudices of the multitude. The superior excellence of the first are only known to the differing few : the others, from similarity of souls, and leifure for stratagem, impose on the major part of mankind.

These epistles, likewise, contain a defcription of the luxury of the inhabitants of Abdera, and mankind in general in those ages. The Greeks, about the fame period, were in a most voluptuous, lethargic, and corrupt state, which foon terminated in the total fubversion of their liberties : for Philip, the Macedonian prince, in proportion as they were indolent and credulous, became vigilant and enterprifing, availing himfelf of the depravity and corruption of the times. He bribed the principal inhabitants and fenators of the different states, and by flow, imperceptible degrees, planned their overthrow. This was afterwards accomplished by his fon

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fon and fucceffor, Alexander. The moft excellent and powerful orator, Demofthenes, could fcarcely roufe a fpirit of oppofition in the Athenians; nor could they be excited to any noble or patriotic action, to retard the growing power of Philip. A fatal fupinenefs, and flothful fecurity had feized their fouls, and benumbed every enterprifing faculty; thus they fell a facrifice to the ambitious conqueror, and illustrious protector of Ariftotle and fcience.

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ON SUICIDE.

SUICIDE is a voluntary and felf-deprivation of life, or the commission of felfmurder.*

In a religious, moral, or political view, any human being deftroying himfelf is criminal.

1. In a *religious view*, it is contrary to the divine precepts of Christianity, and therefore criminal.

2. In a *political view*, it robs mankind of those fervices, whether corporeal or mental, that society at large has a right to expect and demand of each individual forming a part of the whole. Suicide is a crime, then, where the duties of every individual are politically confidered.

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* Suicide, in Greek, is called auroxeigia, which is very expreffive of the action, for it comprehends felf-killing by one's own hands.

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3. In a moral view, it is an heinous crime, as far as it relates to the duties a man owes to his relations or friends through life : it is a diffolution of all those ties by which men are bound either by interest or affections. No human being can exist without the affistance of fome of his own species; nor does any perfon live whofe corporeal or mental fervices, either for labor or advice, may not become ufeful. Men receive, and they are bound, by family affections or gratitude, to give protection, and distribute favors or affistance. He who deprives fociety of his fervices, either in a political or moral view, therefore, must violate those obligations he owes to his country, family, or friends, and becomes immoral and criminal by the act of fuicide.

According to the principles of the Chriftian religion, political or private policy, and the legal inftitutions of most European nations, fuicide is confidered criminal.

Elegant writers have appeared in defence of fuicide, and have produced many fpecious reafons in its favor, without folid argument.— *Rouffeau* fays, "To feek good, and avoid "evil, in that which does not injure another, Vol. II. I "is

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" is a right of nature. When life is an evil to us, and a good to no other perfon, we may then get rid of it. If there be in the world a maxim evident and certain, I think it is this; and if it is overturned, there is no human action which cannot be made out to be a crime!"

1. If a man robs fociety of his prefent, or the profpects of his future fervices, he injures that fociety : it is immoral to commit injuries.

2. Though life may be an evil to a difappointed, miferable man, yet no man can judge how ferviceable his prefent or continued life may be to other perfons; therefore he has no right to get rid of it.

No human being can exift, who may not, in fome meafure, be ufeful; therefore M. *Rouffeau*'s fuppofition, that any one can live without being beneficial, or probably fo, to fome other perfon, is vifionary, and cannot poffibly happen.

3. Men cannot live without the neceffaries of life, food, raiment, and lodging. In a commercial view, other perfons must be benefited by the confumption of every individual,

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dual, confequently no perfon can live without being ferviceable to fome perfon in fociety: he must, in fome measure, supply his own, and the wants of others. These reciprocal fervices or benefits to fociety are loft by fuicide.

4. There is fcarce any perfon without relations, as father, mother, fifters, brothers, coufins, or friends, to whom mutual benefits are given and received through life; of all which death is the total deprivation. Is life no good to others in this view?

Do not furviving relations or friends fuffer great mifery of mind from lofing, by death, whomfoever they effeem ? how much more is the mind diffreffed if fuicide robs us of affectionate friends? Is it not ungrateful, nay barbarous, to wound the feelings of our warmest friends, by an action which is not only confidered horrid, but criminal by divine and civil laws.

The fincerity of the vindicators of fuicide is best determined by their own practice : for there is no proof of any one of thefe celebrated philosophers committing the horrid action:

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tion: they have endeavoured to praife a crime which they had not refolution to execute.

Were fuicide much to prevail, it might occafion depopulation ; therefore heavy fines and punishments, either to prevent or deter mankind from fuicide, have been generally adopted in all civilifed countries. Whether confifcation of property or eftate, by which heirs descendant are deprived of the fortune of their anceftors, is not too fevere, should be confidered by the judicious legiflator. In one view, it appears highly unjust that an innocent descendant should be punished for the crime of an infane anceftor: in another view, it may feem neceffary to deter mankind from fuch actions, and induce families to prevent their commission by an active vigilance.

The *remote caufes* of fuicide are fimilar to those of infanity — perturbations of mind, or corporeal acrimony.

The more *immediate caufes* are, paying too great a refpect for the opinion of the world, or not being fufficiently courageous or collected in mind to bear misfortunes æquo animo.

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An impatient, ambitious, or boifterous temper, that will not fubmit to common reafon, or comply with circumftances of time and fituation in life; warm, unreafonable expectations damped by cruel difappointment; imaginary difrefpect received, timidity, and defpair, have all terminated in fuicide. In none of these inftances can the party be confidered as composed in mind. In every violent passion there is a certain degree of madness.

The mind, dwelling on one fubject, in which is perceived calamity, preternaturally excites the paffions. When the mifery of the mind appears greater than the prefent or future advantages of life, a fufficient refolu tion is fummoned up to deftroy that life, which is become infupportable.

It has been confidered courageous for a milerable man to determine not to live; but if the fubject be examined by juft reafoning, felf-murder may appear cowardice. In proportion to human misfortunes, human exertions and courage are required. Whoever deferts his friend in danger, is ftigmatifed with the opprobrium of cowardice; but how much

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much more pufillanimous is it to defert himfelf or family ?

The example of Cato is applauded by fome writers as a proof of great magnanimity. The action was the reverfe; it was the effect of pride and timidity. If ever Rome required his experience and patriotic counfels, it was at that very period. To defert the duty Rome had a right to demand, by a voluntary death, was the meanest conduct in his character. It stamped an indelible stain on his reputation, which, only a fuppofition that his intellectuals were impaired, could rationally excufe. It was not the virtuous Cato, who had stemmed the torrent of intentional tyranny, who had fpiritedly crushed the Catiline confpiracy, who had given the most noble examples of virtuous refolution and rectitude in moral conduct; but the enfeebled Cato, finking under an accumulation of evils, whofe foul was depreffed with fufpenfe and distracting passions, waiting an opportunity for revenge, or preparing to finish his life, on difappointment. If fuch examples were admitted magnanimous, in every ferious quarrel, or war, where none can command fuccefs,

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fuccefs, it might be laudable to commit fuicide, the confequences of which are obvious.

On fuch occasions countries would lose their bravest generals; private families their noblest and most experienced supporters.

" If I cannot acquire what I wifh," fays Cato, " I will kill myfelf, I will not live to " grace Cæfar's triumph, though I know " Cæfar to be the most generous and cle-" ment of conquerors. I cannot fubmit to " receive Cæfar's favors; my pride is wound-" ed ; my fears deftroy all tranquillity ; my " body is finking under adverfity. I will " not dedicate my fervices to my diffreffed " country, under the aufpices of fuccefsful " Cæfar: I will plunge a fword into my " bofom, and commit an injustice to myfelf, " which, through a long life, I never com-" mitted to others. From the uniformity " of my former patriotic character, writers, " without deep reafoning, will paint this will " concluding action in glowing colors, they " will give additional luftre to an immor-" tal reputation." Such, I conceive, were the

the fecret fprings of action in Cato's mind; fuch were the contending paffions which excited the delirium : it was not the placid, judicious Cato of former years; but the depreffed Cato, impos mentis, committing a rafh action contrary to all his former great reafoning and virtuous perfevering conduct. It was, / 25 in fact, Cato's act of infanity : it was not dying to ferve the country, but to effectually rob Cæfar and the country of his eminent fervices : it therefore appears more the effect of private pique and defpondency, than a demonstration of public virtue or courage. Had all others, concerned in that civil war, followed this extraordinary example, the country would have been robbed of many of its brightest and furviving ornaments. Cato 20 could not fay with Horace,

" Dulce & decorum est pro patria mori;"

for, it was not for the country, but the gratification of a felfish caprice, a perfonal refentment and hatred to Cæfar and his power. Had Cæfar attacked the city while Cato enjoyed a vigor of mind, body, and popularity; when the citizens were better difciplined,

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difciplined, and lefs corrupt, he would have defpifed fuch inglorious conduct : he would rather have hoped for fome future opportu- 2 nity to difpel the dark clouds overwhelm. ing the diffracted country.

Phyficians have frequent opportunities of obferving the diminution of human courage and wifdom from long-continued misfortunes, or bodily infirmities. The moft lively, fpirited, and enterprifing, have become depreffed from reiterated difappointment : cowardice and defpair have fucceeded to the moft unqueftionable bravery and ambition. The man is then changed; his blood is changed; and with thefe his former fentiments. The timidity is no longer Cato's; but the miferable, *debilitated body* of Cato, without that vigorous foul that fo eminently diftinguifhed, on other important occafions, this excellent and divine patriot.

The example of Lucretia merits admiration and compaffion; of Cleopatra, as a female, pity: but Marcus Curtius, who voluntarily killed himfelf to liberate his country from famine and peftilence, juftly merits the praifes

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praises of all succeeding ages; as a real patriot, he deferves immortality.

It is certainly clear, that when a man meditates how he fhall deftroy life, or dwells unreafonably on any misfortune, he is no longer *compos mentis*; the commission, therefore, of fuicide, must, necessarily, be always confidered an act of *infanity*.

This is contradicted by fome, from obferving, that previous to fuicide, many arrange their temporal affairs, write fenfible letters to their friends, talk, and appear as rational perfons, except on the fubject, whether concealed or known, which occupies and attracts the attention, abforbing all the other mental powers.

On the common occurrences of life, if the intender of fuicide talks and acts rationally, yet if in any one point he is irrational, and urged by that fingle inftance of irrationality to be the perpetrator and executioner of fuicide, it must be admitted, that though he was fensible and composed in most inftances, yet in one thing his mind was urgently difcomposed. This difcomposure, when

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when it can induce a man to hurt himfelf, or deftroy life, cannot be confidered the act of a rational being, but of evident madnefs.

All mankind purfue, to the beft of their judgment, what is thought real or imaginary good, and naturally, from experience, example, or reflection, avoid whatever is confidered evil.

 \neq Pain is an evil; death the deprivation of every hope or comfort in this life. No man in his fenses will burn, drown, or stab himfelf; for thefe all produce what are called evils : neither can any of these actions be executed without the probability 2 of pain in the convultive action, or firuggles of death. As no rational being will voluntarily give himfelf pain, or deprive himfelf of life, which certainly, while human beings preferve their fenses, must be acknowledged evils; it follows, that every ene who commits fuicide is indubitably non compos mentis, not able to reason justly; but is under the influence of falle images of the mind, and therefore fuicide should ever be confidered an act of infanity. 4

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Whether

Whether the caufes which lead to fuicide arife from acrimony of the blood producing falfe images; changes of the feafons, as in the dreary month of *November*; imaginary or real misfortunes occupying the mind; the treatment fhould be fimilar to that of infanity.

The mind fhould be diverted by mufic, converfation, &c.; the body exercifed. Evacuants, antiphlogiftics, bleeding, &c., to the plethoric and florid, tonics to the debilitated, antifpafmodics to the irritable nervous, and mineral alteratives to the obftructed, fhould be, according to circumftances, prefcribed. Wherever there may be the leaft reafon to fufpect intended fuicide, it is beft to fecure the life of the patient by a rigid watchfulnefs over all his actions. All inftruments, weapons, or means of executing fuch impious and irrational intentions, fhould be removed.

The body fhould be fweated with exercife or antimonial diaphoretics, and the patient kept conftantly in bed. The commission of the mischief may be thus prevented. If these direc-

directions be thought infufficient, it is better to commit the intender of fuicide to the perfons who receive the infane into their houfes; for the cunning contrivances of perfons, in fuch a diftracted ftate of mind, are aftonifhing: they often elude the greateft vigilance, and will affect to be perfectly fenfible, but a few moments before they commit thefe rafh infane actions.

This fhort doctrine concerning fuicide shall conclude with an anecdote of the celebrated M. de Voltaire .- An English gentleman of fortune had being fitting many hours with this great wit and cenfurer of human character. They difcourfed chiefly on the depravity of human nature; on tyranny and oppreffion of princes ; poverty, wretchednefs, and misfortunes; the pain of difeafe, particularly the gout, gravel, and ftone. They worked up each other to fuch a pitch on the evils of life, that they proposed next morning to commit fuicide together. The Englishman arose, and expected M. de Voltaire to perform his promife, to whom the genius 4

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genius gravely replied, " Ab ! Monsieur, par-" donnezmoi, j'ai bien dormi, mon lavement a " bien operé, et le soleil est tout-à-fait clair " aujourd'hui."

The cuftoms, religious ceremonies, and superstition of some of the Eastern countries, countenance a voluntary death; and women who did not courageoufly fuffer themfelves to be burnt on a funeral pile, were confidered infamous. This horrid act the priesthood, for reafons best known to themselves, frequently advifed, as the most compendious way of being again happy with those, we most loved in this fublunary globe. Whether this arofe most from the artifices of the priests, or the false pride, enthusiasm, and folly of the people, is difficult to determine; but this is not the fuicide arifing from the caufes already enumerated, but a religious fuicide.

Though the rules for ascertaining whether any person who may have lost his senses, and may be either phrenetic, delirious, or insane, have been long established; yet, for want of true definitions in the medical mind, but, more commonly, amongst those who have not studied medicine, these three diseases, different in their nature as light and darkness, have been frequently confounded with one another: in consequence of which, what are actually *phrenitis*, or *delirium*, have been pronounced insanity; and, on the contrary, insanity has been called phrensy of the brain, or delirium.

The distinctions and true definitions of these diseases, though apparently the same to persons not acquainted with the laws of medicine, are all different in their causes, effects, duration, and termination, as hath been observed.

Phrenitis, or phrensy, or what is vulgarly called a brain-fever, is an inflammation of the brain, short in duration, and always accompanied with fever, and loss of reason.

Delirium is a symptom of many fevers, in which the patient loses reason, raves, and talks incoherent; it is not of long duration, and is either, with the fever cured, or proves fatal, or ends in mental alienation.

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Madness

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Madness is loss of reason, without fever, continuing for weeks, months, years, and often during life, and is not attended with danger, nor apprehension of death; therefore, called a chronic, not an acute, disorder.

These precise definitions are well known to all learned, scientific, physicians, and they have been ascertained and determined, beyond the possibibility of refutation, in my treatises on fevers, the putrid and nervous phrensy, madness, and truth vindicated, in the second volume of the Rational and Improved Practice of Physic, published many years ago, but, first in a Treatise on Female and Nervous Diseases, now out of print.

The chief intentions, however, of this treatise are to demonstrate to all rational and learned physicians the irrationality of some received modes of treating madness.

Vomiting, or Exciting Nausea.

This practice is to be found recommended by almost all authors, and is now frequently and repeatedly prescribed; though a more erroneous, nor a more dangerous doctrine cannot exist, for procuring the durability of madness, or, in confirming

confirming the dreadful disease, that it is intended to remove. By destroying nutrition they may produce swelled legs and dropsy, &c.

Proved by Dissections after Death and Physiological Reasoning on Facts.

Numerous dissections, made by myself, and others, after death of persons who have died phrenetic, delirious, or mad, shew, amongst other appearances, a superabundance of humidity, or watery accumulation in the brain, or between the arachnoid membrane and pia mater.

2. Over distension and fulless of the vessels.

3. Increased vasculosity of red vessels in the dura, pia mater, and in most parts of the brain.

4. Tumefactions, and various other appearappearances and congestions.

Reasoning from these Facts.

1. It has been clearly proved, that mental perturbation, and various affections of the mind, as anger, grief, pridé, disappointed revenge, and a number of, human passions determine a great quantity of blood to the head by the arteries, especially by the moistening exhalents.

2. If the inhalents, or the absorbents, of the brain do not act promptly, and keep exact pace with

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with the effusing and moistening exhalent arteries, and absorb, or inhale, with equal alacrity, all the superfluous moisture, and convey it back to the blood, accumulation of fluid and congestions in the brain must be the consequence, and this, dissections, in eight cases out of ten, fully prove.

3. Every violent effort that can send an increased quantity of blood to the brain, as sneezing, coughing, &c. is sensibly felt; but if nausea and vomiting be excited, by emetics, frequently, where there was already too great a quantity of blood in the brain, and a constant determination of blood from mental perturbation, in proportion to the violence of the passion predominating, is there not even great risk of forcing a blood-vessel to burst, and destroying the unfortunate mad patient, by apoplexy? This circumstance has happened.

4. But supposing emetics in nauseating or vomiting doses be frequently administered, must it not appear clear to the mind of every reflecting physician, that every *time* an *emetic* may be *administered*, the brain, already surcharged with fluid, or water, must receive, by every additional vomiting effort, some increased distension,

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or turgency in the tardy venal system, or twentytwo venal sinuses.

5. These facts, repeated dissections have fully proved after death.

Conclusions from the foregoing Facts.

1. Where a direct tendency of blood to the brain produces disease, every means should be practised to keep the blood-vessels of the brain from being overfilled.

2. Vomits force an immense quantity of blood to the brain, as is evident by the redness of the face, sensations and pain of the head, &c. &c.

3 Therefore, as continued fulness in the vessels of the brain, and serous effusion in the very substance of the brain, are the principal causes of many mental perturbations, every thing that can increase the cause, which *vomits* do, must be highly hazardous, injurious, irrational, and, most probably, they give permanancy to madness, which, if otherwise treated, might be often cured, as hath been amply demonstrated, in repeated instances, at the St. Marylebone infirmary, and amongst the numerous insane which my worthy and respectable colleagues, and myself, * K 3 have

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have attended at the receptacle for these unfortunate, miserable beings. Indeed, in the course of *three years*, we have been able to discharge be tween thirty and forty insane patients, and out of that number, not above three or four have relapsed. The humanity and liberality of the noblemen and gentlemen, the directors of the poor of St. Marylebone, are highly laudable, and it must be acknowledged, that the humane business of that large and extensive, opulent quarter of London, is conducted with an energy and benevolence that does the highest honour to humanity.

Objections to Opium, Hemlock, Henbane, and Digitalis, &c. &c.

It is with the greatest respect to the profession that some observations are necessarily delivered on the extensive abuse of *narcotics*.

There are none in use now that have not been tried in former ages, have been found wanting, have been rejected, and become obsolete, except opium. This has always preserved its reputation; because, it has always answered the anodyne purpose for which it has been prescribed

* It is remarkable, that before we attended the insane, it rarely happened, even for years, that any were cured, or discharged.

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with less danger or inconvenience than any other. Its use and abuse is well understood by all learned and experienced physicians.

The promoters for the abuse of poisonous narcotics, have taken up the false and visionary conceits of Dr. Brown, and the mischiefs that have ensued are incalculable. Palliation of symptoms is not radically curing diseases, and the physician, who only palliates, when he may, and ought, to remove the causes of disease, neither acts rationally, nor with integrity.

Opium, or other narcotics, given to the insane] tends to fix the melancholy disease. It checks the natural fecal evacuations, inspissates the blood, retards, in certain degrees, the animal, vital, and natural functions, and cannot promote the absorption of those superfluous fluids, that overload the brain, and its vessels; and, which, more than any other causes, are the true sources of mental perturbation. The soul cannot act rationally, consistently, and with clear perception, reasoning, and judgment, when the very principal function, on which all true reason depends is in a morbid state. This, the anatomical enquiries of my whole life fully prove; near fifty years of which have been unremittingly disected to make medical improvements from those

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only true sources of intelligence-dissections after death. How far I have succeeded must be left to the determination of those, who will candidly examine the Latin and English edition of Schola Medicinæ; the Rational Practice of Physic; and, by those learned auditors, who have honoured my present medical lectures, excluding false systems, with their presence and protection.

Therefore, from dissections *post motem*, facts, reasoning, long experience, and observation resulting from extensive practice, it is asserted, that vomits, opiates, and many other remedies given to the insane, frequently do more mischief than is apprehended; and, instead of removing madness, or rather its causes, fixe and confirmthe disease; so that the most judicious application of mtdicine, afterwards, cannot correct the errors arising from fallacious doctrines; and thus, many unfortunate insane are lost to their affectionate friends and society, and destined to spend the remainder of their lives in close confinement and misery !

Much more might be said on these very important subjects, than may be fit to meet the public eye, lest it heighten sorrow in humane relatives,

relatives, and fill the mind with horror! It will be more to the purpose to give some additional hints how the treatment of the insane may be improved, and how, when recent, the cure should be spiritedly attempted.

1. Vomits and opiates are to be rejected.

2. Every individual case ought to be treated according to constitution, age, sex, and existing circumstances.

3. In true inflammatory cases, with plethora, large and repeated venæsection, saline evacuants, camphire, nitre, antimonials and hydragyric preparations are requisite, with the driest diet possible. To deplete, prevent repletion, to expel and promote the absorption of those fluids that irritate, and are directed to the brain, comprehend the whole practice for recent maniacs.

4. In the debilitated with melancholia and diseased viscera, mineral alteratives, night and morning, and tonics of *flores zinci*, cortex peruvianus, myrrh, and bitters, are proper to be given, between the times of exhibiting the alteratives. In all cases dry regimen is to be observed, for it diminishes the fluids in the plethora, and prevents continued relaxation in the more debilitated.

5. When

5. When there may be any reason to suppose schrophulous affection, then alteratives of the mineral class, powerful or mild, according to circumstances to be prescribed, at such distances, that every prior dose should be succeeded with another, and these plans should be many months, nay, years, continued. The schrophulous tumors should be examined from time to time, and penetrating liniments of *linimentum ammoniæ*, *spiritus terebenthinæ et unguentum ex hydragyeo* should be applied according to the direction of the lymphatics, *omni*, *vel alterna quaque nocte*.

6. Artificial drains should be promoted, by setons in the neck; issues, or artificial ulcerations should be produced in the inferior extremities. I have known instances of accidental ulcers of the legs perfectly curing insanity let art imitate accident,

7. The minds of the insane should be amused and diverted in every mode good sense and experience can suggest, according to rank, affections and circumstances.

8. Coercion must be applied with firmness, though dictated by strict humanity—never make a remedy worse than disease !

9. Apparent

9. Apparent lucid intervals of reason are not to delude the physician into a belief the patient is cured, or better; therefore, it is best to be ever on the watch; for the cunning of the insane surpasses all calculation: they frequently appear most sensible when they are meditating the greatest mischief.

It is no proof of a patient being perfectly rational, because, at times, he may appear so; for, unless human reason be uniform, correct, and constantly permanent, for a great length of time, without the least momentary symptom of incoherent expression, or action, it cannot be pronounced the party is fit to be depended on in any momentuous concern; nor is it prudent to liberate any person, once insane, to mix amongst society, until the proofs of a return of sound reason are as evident as the preceding insanity fatal have been the consequences of an opposite conduct.

11. In giving legal evidence, it behoves the physician to be very circumspect. Those who are not conversant in mental derangement are frequently deceived by the plausibility of the insane, and are led into error. Touch on the right string, and apparent sense and serenity are converted, converted, immediately, into bitter gall, reproaches, and furious resentment. It is common for the insane, and those who have been insane, to violently hate those who have rendered them the greatest friendship and services, and even they are frequently furious and ungrateto those who have liberated them by skill and judgment from their disastrous and melancholy situation. When such conduct is manifested, it ought to be doubted, whether the party be clearly in his senses. It is unnatural to hate those who have most obliged us.

12. It is earnestly recommended to those who attend the insane, to examine the principles, or rather hypotheses, on which they act; take a re-survey of those evident causes that are delivered in the foregoing treatise, reason from effects visible to causes, and from causes to rational, efficacious practice, and remedies. These disorders, thus considered, by such means, will be frequently cured, when recent; but if a continuance of fallacious theory and practice continue, little can be expected, except the consignment of the insane to places of confinement for life.*

* Dr. Perfect, of Town Malling, Kent, has succeeded in curing the insane, by practising some of the doctrines advanced in this Treatise, &c. &c.

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Necessity of an Accurate Judgment in Mental and Maniacal affections.

Many learned medical writers on the continent, have promulgated various rules for determining on law cases, that come under criminal, civil, and canonical jurisprudence, on which medical principles, the accused have been convicted, condemned, or acquitted. Specific rules, however, for determining the symptoms that constitute actual insanity, have never been delivered with clearness nor precision. This has occasioned numerous disputes and litigations, in which, error has frequently vanquished truth, and persons, non compos mentis, whose unfortunate mental derangement required confinement, have been let loose, to the annoyance of the public; sometimes fatal effects to their families or friends have been the direful consequence. On the other hand, many have been confined for life, as insane, who were not so; and thus, a dangerous tyranny hath been exercised over those who merited compassion, and mild consolation.*

* I may hereafter publish a work comprehending the rules for determining law cases, as far as medical science extends. What works have already been published are, in many respects, fallacious superstitious and defective. 2. The

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2. The explanation of these points shall be now attempted.

Inebriation, Fatuity, Idiotism, Epilepsy and Hypochondrias.

Drunkenness -- Persons who are only insane pro tempore, from too free use of strong liquors, are not properly mad, except, during the effects of their Bacchannalian freedoms they may appear so; they are certainly in some instances, dangerous to the rest of society; and while the furor lasts, they should be restrained, confined and prevented from doing mischief; but not considered as persons mad, nor should they be consigned to a mad-house, unless, in their drunken excesses, they threaten or attempt murder; under which circumstances, the law considers the case, and, on receiving true information, proceeds according as prudence, wisdom, and foresight may sug-But, before law determinations, which are gest. necessarily slow, can be accomplished, to the medical art should be permitted a controuling power, in confining the inebriated until he return to his sober senses, in all cases of absolute apprehension of danger.

Fatuity, or foolishness, imbecility of intellects,

lects, or mental weakness, if innocuous, are certainly not madness; therefore, under such circumstances, except for convenience of famimilies, they are not proper objects for confinement amongst the insane. Idiots are not maniacs.

Epileptic persons, subject to convulsive fits, are, likewise, not insane; although in the intervals between the paroxysms, they are often stupid, forgetful, and suffer under various degrees of a weakness of understanding; but these are certainly not subjects for confinement amongst the truly mad; for they are neither maniacs or melancholics.

Hypochondriacs, though bordering on insanity are not insane. Dejected, low-spirited, evercomplaining, and expecting dismal events, that are irrational, all indicate mental or nervous debility, originating in bodily disease, and are often curable, by modes recommended in the Treatise on Nervous Diseases. It is certainly inhuman to mix such unfortunates with the insane, though it often has been practised. It were to be wished, that these afflicted beings, whose friends may be incapable of supporting them, might be relieved in a place not occupied by by maniacs; for to be constantly with the insane, under such description of desponding disease, is sufficient to sink the spirits, add affliction to affliction, and render those insane, who otherwise might recover their perfect health, and sound reason. Therefore, neither inebriation, fatuity, foolishness, nor idiotism; epilepsy leaving mental stupidity, or weakness of understanding; nor hypochondriasis, are to be considered insanity; nor, except under particular circumstances, are they fit objects for insane receptacles.

Diseases similar to Madness, though not Madness.

These are, delirium arising from fevers, inflammations of the diaphragm, stomach, bladder, and other viscera; phrenzies or inflammation of the brain; two distinct species of which, besides the truly inflammatory, I have first discovered, namely, phrenitis nervosa, and phrenitis putrida—nervous phrenzy, and putrid phrenzy.* All these, more or less, are attended with fever, therefore, not madness; but, from

* See putrid sore throat, and scarlet fever in the Rational Practice of Medicine, with certain modes of cure.

errors

errors in medical practice, they have been treated as such, and the unfortunates have been dragged away from their families in a strait waistcoat, and treated, in every respect, as though they were mad, until some skilful physician hath demonstrated the error. None of these cases, then, though similar to madness, are true madness, which is always without fever ; nor are they subjects for a mad-house, though often hurried away for want of knowing the precise distinctions of mental diseases. Such circumstances, when the phrenetic person hath come to his reason, and found himself apparently abandoned by his friends, and confined amongst strangers, in an insane receptacle, have operated so forcibly, as to actually produce a permanent insanity, where originally there was only a temporary delirium, or phrensy. The same circumstance has rendered persons and families truly miserable, when, by similar errors, gentlemen, who only accustom themselves to attend the insane, have been called to attend such cases of phrenitis; for, on a supposition that the party afflicted must have been mad, when those, who only attend the mad, are called, a stigma or odium has been cast on the family, as

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as though they were 'of an insane race, and no arguments, no reasoning, no explanation, could ever wipe away a stain, that originated in error, and was communicated, and, perhaps, continued by artifice and calumny.

In a legal point of View.

Now, though all these mental affections, be not madness, yet, they are equivalent to insanity; as to the intellectual powers of conceiving, reflecting, reasoning, remembering, and judging correctly, and rationally. In such mental perturbations, then, no request, no act, should be considered legally valid, even though there may, in the opinion of those not acquainted with medical definitions and rules, appear lucid, or temporary intervals of reason. No honourable physician would advise or countenance any willmaking, or other act of consequence, under such circumstances of mental imbecility, delirium, phrenzy, foolishness, vel mens non sana; though to the disgrace of human nature, artifice, stimulated by self-interest, has, even under the coercion of the strait-waistcoat, menaced the unfortunate phrenetic, delirious, or imbecile old age, to sign last wills and testaments, or other writings

ings of the greatest importance to individuals, relatives, friends, and society. These stratagems, horrid to reflect on, have often succeeded, from the great difficulty of detection. They have been practised in the absence of the medical profession, who are the only true judges of mental rationality, or the faculty have been excluded, under pretence of secret transactions or conversations being necessary, and the parties concerned and interested, being all implicated in the villanous guilt, have all been ready to swear, that the insane afflicted was perfectly rational at the moment of signature, however fatuitous, inebriated, delirious, or phrenetic, he might have been before and after the transaction. In the course of my long practice, I have had many reasons to believe, that such infamous and iniquitous deeds have been more common than the world, in general, would suppose. Therefore, when any important acts, in which the clearest mental faculties are absolutely requisite, the medical art should always be consulted in every doubtful mental derangement; and, those who have been most accustomed to study, reflect, and reason on such subjects, * L 2 must

must always be superior to those who have less considered the morbid affections of the mind, however excellent they may be as physicians for other purposes.

What constitutes Insanity or Madness.

It is the office of learned, scientific, and experienced physicians to determine, whether persons be insane or not, in a medical point of view. Other persons, or professions, however sensible and learned, are not competent to judge on these subjects; for they have often pronounced apparent, not real, rationality, for sound reason, and a capability of performing all the mental functions requisite in man. Even learned physicians too, have been deceived by false appearances, and subtle-cunning of the insane; therefore, unless physicians have been accustomed to visit and comprehend insane diseases, and have practically observed, the origin, progress, mutations, and terminations of madness, they may be incapable, through want of actual experience in these calamitous affections, to determine on such cases with precision and certainty. The most skilful, in other respects,

spects, should tread cautiously on unknown ground.*

2. It

* Suicide the consequence of rashness .- A noble lord, whose family I had the honour to attend, had received, it is said, some little reproof from a great personage, concerning a military omission. It seized his lordship's mind so seriously, that, on examination, it was evident to me, that suicide was intended. All weapons, and dangerous means, whatever, were removed. It being a circumstance of delicacy, I sent for his lordship's son, then about eighteen, from Westminsterschool, communicated my apprehensions, and requested his constant attendance on his noble parent: this the young gentleman strictly executed for some days, and prevented the commission of the crime apprehended. In my absence a few hours in the country, a very eminent, learned, and, indeed, remarkably sagacious, physician, but, my mortal and vindictive enemy, was called. I had, contrary to medical etiquette, enforced the necessity of promptly bleeding a most noble lady, in an apoplexy, which saved life; but, brought down invectives, hatred, and vengeance, on me. Whether out of opposition to my vigilance, or from malicious motives, it would be difficult to determine, but the noble lord was liberated from all restraint, and my apprehensions treated by injurious insinuations, and with contempt. Thirty-six hours had scarcely elapsed, before the noble lord put a period to his existence, by a sword he had concealed, which had been a present from Prince Ferdinand; he wounded his breast in two places, but the third thrust pierced his heart. Thus perished a nobleman, whose liberality, feelings, and many virtues,

2. It is the duty of physicians to conceal, as much as possible, human intellectual infirmities; and, it is laudable and humane to give every possible latitude for the recovery of mental derangement; but there are certain bounds even to the laws of humanity—integrity and strict justice require the truth, and no mistaken affection, friendship, nor interested motives, should induce any medical practitioner, to declare persons not insane, who are actually so; for, much confusion, mischief, and even self-murder, or the murder of nearest relatives have arisen from such sources.*

3. Madness, whether what may be called mania, or furious madness, as well as melancholia, or even mixed madness, has been defined, an alienation, or irrationality in the mind, without fever.

4. Those

tues, did honour to human nature; and, who, might, in all probability, have been now living, had not medical arrogance and illiberality, merely from personal opposition, dictated error, at the risk of human destruction! Horridum ! valde Horridum !

• Fathers have murdered their wives and children; children their parents. The bloody scenes transacted are innumerable

4. Those, who are insane, and who have only temporary intervals of *apparent* rationality, cannot be considered in any other light than as *insane*. Lucid intervals of reason are no proofs of the cure of insanity, and who dare to pronounce a partial return of sense, or reason, *perfect* understanding?

5. No persons can be considered perfectly cured of insanity, who require the least temporary restriction, or, who have rationality at one time, and are incoherent at others. A man in his perfect senses is able to think, reason, judge, conclude, speak, and act for himself, without any restraint whatever; and he who is not, cannot have the clear free use of his intellects.

6. Under alternate states of apparent reason then, and mental derangements, no legal act ought to be executed. It is the complete possession of sound, permanent reason, discernment, and sense, without even a moment's de-* L 4 viation, merable, and those who trust to the supposed reason of the insane, or put a sword into the hands of a madman, are foro conscientize, guilty of whatever may be the consequences. Numerous acts of suicide, numerous horrid events, I have been witness to in the course of near fifty years extensive practical experience in the medical art. viation, or mental derangement, that constitutes mental sanity.

7. All important acts, therefore, done by persons under temporary, suppositious, returns of reason, who are, at times, insane, can only be considered as the acts of madmen, and, in a legal point of view, they should neither be determined valid nor binding. No rational physician, who understands the case, and has the least pretension to probity, will suffer persons under such circumstances to make a will, or sign any papers relative to estates or other business. What such insane persons think, or say, is generally disregarded. Even those who have apparent temporary reason, and converse as though they were in their right senses, touch on the string, or subject, that may have given rise to the mental perturbation, and, generally, off they go, rail, storm, complain, threaten, or attempt mischief. This fact proves they are not in their senses, nor in a state to act for themselves.*

8. Phy-

* Numerous instances of this sort occur in my monthly visits to the St. Mary-le-bone insane, and it is generally the mode-I use to determine the state of the afflicted. Out of some hundreds, at the mad-house, we visit, numbers will always be found, who seem, to bad judges, to act rational and consistent *pro tempore*, and who would be thought perfectly sensible

8. Physicians, and attendants on the insane, should always be on their guard, and mistrust appearances; for the artifice or stratagem of the subtle insane, surpasses all calculation. The crediting of appearances has often led to fatal errors.

9. But when the insane may have been perfectly cured, and their reason permanently returned; after they have, for a time, been tried by all the dictates of sound medical reason, erudition, and by the foresight, long and skilful experience of observing practitioners, and no mental defects are perceived; it is but just, that the unfortunate insane, when it may be certain, they are cured perfectly, should be re-admitted into society, to hold their rank and condition, to act for themselves, without restriction or molestation, as though they had never been afflicted with mental irritation or insanity. But whilst their insanity may remain, others should act and officiate for their benefit.

10. But it should be observed, after one or more proofs of insanity, that the party, though liberated to perform all rational functions of life, yet, a watchful eye should be kept over such persons, and all their words, actions, and conduct

conduct should be scrutinized, though not apparently to the former sufferers, lest their feelings be injured.

11. In the legal examinations of physicians, a diversity of opinions sometimes prevail; those who are not accustomed to the surprising artifice of the insane, at times, are easily deceived, and pronounce an insane person sensible; whereas, those who have had experience, are not so easily imposed on. The experienced practitioner almost knows, by the countenance of the insane, the state of mind. The wild look in the eye, the sullen taciturnity of some, the daring, menacing looks of others, the arrogant proud deportment, and a thousand other marks are confirmations strong of probable insanity, which are not so well discerned, or comprehended, by the inexperienced. Numerous are the insane who are perfectly rational in all points but one; they will appear, in every respect, collected and correct, except on the certain subject which gave origin to their malady, on which they will be guilty of a thousand excesses. In all cases of insanity, as the parties are not their own keepers, and placid reason is off her throne, the greatest humanity and sympathizing mild compassion should be exercised. It should be remembered

remembered, they know not, correctly, what they say, or do, but while the humane medical art practices every reasonable indulgence, it is necessary always to exercise its vigilance and coercive authority on all those occasions that require force to prevent mischief; but all painful corporeal punishments are cruel in the extreme.

12. When the insane have continued to think rationally, talk sensibly, reason and constantly act consistently, without any deviations from a sound understanding; another mode of trial should be adopted, which establishes the strongest proof of the insane having returned sound to reason.

The strongest proof of returned rationality.

1. Let them receive letters from their affectionate friends, or those whom they have been accustomed to correspond with, and suffer these epistolary communications to be continued daily for a limited time. Have the answers written in the presence of persons of strict honour and integrity, and let the whole be examined by disinterested judges.

2. Let them have pen, ink, and paper in their possession, and enjoy the fullest liberty to answer the epistles they receive, without menace,

or

or the least interference of their keepers, or any other persons, for where there may be any restraint, it is not acting by self-will, but under the influence of others.

3. Let the subjects be from easy to more difficult, some that require greater than ordinary reflection, this is acting with humanity, probity, and justice, and will determine the truth.

4. Let the subject be mentioned, if known, that gave rise to the mental perturbation, or on which they dwelt with more than usual energy during their disease. If they be perfectly well they will not be affected.

5. If after every trial of this nature, the former maniac continue sensible and correct, without any signs of mental perturbation; there is every reason to conclude the cure is complete. If the contrary happen, in these rational trials, it may be determined, that the unfortunate is by no means fit to perform by his own reason, or intellects, the purposes of life; nor should any act, whatever, be deemed *legal* that he executes.

6. Such are the proofs, and only conclusive proofs, that determine whether the parties afflicted, continue insane, or have returned to their usual reasoning faculties; these are the proofs, that the nearest relatives should expect and require,

quire, and physicians inculcate. These are the proofs, on which all legal determinations, according to my opinion, should rest: for they are founded in the strictest rules of justice, equity, and medical science, and are such, as no honourable man can have the least objection to.

7. Every thing of this nature, should be conducted with great delicacy and prudence, with the most tender regard in supporting the just claims of the unfortunate, and they should be encouraged by every rational and soothing means, to endeavour to acquit themselves with propriety, in order to regain their free liberty, by the total removal of all restraint.*

S. Though

* There is a man by the name of Davis, at the insane receptacle, whom we visit among the restmonthly. He always appears with a most malignant, malicious look; never shews the least respect to persons, will never have his beard shaved, unless by means of coercion in a straight waistcoat. He never gives an irrational answer; but always behaves insolent, and looks menacing. He is a rank *democrat* in principle, and breathes liberty and equality, and once, actually, as I have been informed, seized the colours in the square at St. James's, and was running off with them. His answers, are all clear and precise to any question, and, in his own opinion, he is in his perfect

A TREATISE ON

8. Though in the second volume of the Rational Practice of Physic, published 1793, in answer to anonymous abuse, are delivered all the rules for juries to determine on cases of insanity;

perfect senses. This man has had every latitude to be discharged from his confinement; but his persistance in these strange manners and menacing looks, oblige us to keep him confined. He is a boot-maker by trade, and was permitted to make a pair of boots. By some means he concealed the half-round cutting knife, similar to a cheese-knife; when he had been asked a few questions, with the humanest intentions of taking him back to the St. Mary-le-bone Infirmary, to make trial of his conduct, he produced the knife, from his bosom, and exclaimed, he could cut and dissect as well as Dr. Hooper, Mr. Phillips, and myself; and after we had reasoned with him, in the mildest manner, he went out, rudely damning us, and our intended humanity. At all other times he appears sullen; never speaks irrationally; but looks, at times, with a murderous, blood-thirsty look, and, no doubt, his wife, or we, should, if possible, be the first victims of his bloody revenge, the moment he should be liberated. To inexperienced persons, he would seem perfectly rational, but. to the experienced, a dangerous member of society.

Another man is there of the same cast, perfectly sensible, but, on being liberated, twice attempted the murder of his own mother, after intoxicating himself with liquor. In the same place, there are some hundreds of insane, and, out of this number, on our visits, we may perceive and converse with

sanity; yet it may be necessary to repeat them in this place. The authority on which they are founded were quotations from almost all the authors and practical physicians, ancient and modern, who have appeared in the world, and they are confirmed beyond the power of refutation by my own practice and long experience.

1. That insanity is a loss of reason, without fever.

2. That an inflammation of the brain, called *phrenitis*, is always accompanied with fever.

3. That a delirium arising from *fever*, is neither *insanity* nor *phrensy*; but being a mere symptom of the fever, as it is called, to distinguish it accurately from the other two, *febrile delirium.**

The

with many, who appear perfectly sensible, at lucid intervals; but who are never to be depended on from these appearances. It is only a permanent and certain return of sound sense, unalloyed with false perception, false reflections, false judgment, and false reasoning, or injudicious expression and action, that constitutes the certain return of rationality.

* Authorities from which quotations have been produced amongst the Greeks, Romans, Arabians, and Moderns, are the subsequent:

LAND STATUS SEL		C.2. 1		3 A.	40
2 Paulus Ægineta	13 F	r. Hoffmann	24	Pitcairn	0z
1 Hippocrates	12 E	Ettmuller S	23	Joel	8.

The various facts relative to mental derangements have been fully discussed in a manner, it is hoped, every reader, medical or not, may comprehend. Though it was first intended only to refute anonymous deception, yet, on second consideration, it was determined to render this work more extensive in its utility.

1. No errors can arise in ascertaining the differences of mental affections, if the doctrines be understood.

2. Families under the greatest affliction, lest unfortunate temporary accidents should be exaggerated into an idea of hereditary or chronic complaint, may be satisfied, by the rules of science, whether mental diseases be chronic or symptomatic.

3. Juries appointed to examine mental complaints, if they attend to the foregoing truths, can

3	Aretæus Cappadox	14	Nenter	25	Valentinus
4	Cælius Aurelianus	15	Boerhaave	26	Heister
5	Galenus	16	Home	27	Brooks
6	Alexander Trallianus	17	Ludwig	28	Shaw
7	Arabians	18	De Sauvages	29	Ball
1	Fernelius .	19	Lieutaud	80	Hugh Smith
	Gorræus	20	Caldanus	31	Van Swieten
-	Riverius		Gregory	32	Stoll
	Willis		Meza	33	Cullen, &c.

can neither be influenced by fallacious appearances nor misrepresentations.

4. The treatment of the unfortunate may be rendered more mild, and all severity, in many instances, avoided.

5. The greatest numbers, it is proved, are symptomatic: these only require an accurate discovery of real causes, and skilful medical treatment, to restore patients to the free and judicious use of the mental faculties.*

6. The health, fortunes, and liberties of the most unfortunate of human beings, are humanely protected from the direful effects of erroneous prejudices, and from all possible violence of unfeeling and mercenary persecution.

QUESTIONS FOR JURIES.

If relations or juries, after conversation with the deranged in mind, ask medical practitioners the following questions, the species of disorder may be easily ascertained:

1. Has any acute, eruptive, or chronic disease preceded the mental perturbation.

* M

2. Has

* Houses that receive the afflicted are real benefits, and of great utility; but the disordered should not be sent while fever or other irritating causes remain. 2. Has the mental perturbation, soon after its commencement, been attended with continual, remittent, intermittent, or nervous fever?

3. Has the loss of senses soon followed the vanishing of any gouty, rheumatic, scrophulous, or other swelling ? *

4. Have the *natural* and *vital functions* been retarded, accelerated, or shewed probable signs of febrile or chronic indisposition sufficient to affect the brain?

An affirmative, or the answer yes, to the foregoing questions, gives sufficient reason to conclude the disorder symtomatic.

5. Has the irrationality commenced and continued with heat, thirst, quick pulse, inflamed eyes, and violent ravings?

The

* The symptoms of absorption do not appear until the fluids have been contaminated many days. The small pox in inoculation, the venereal affection, do not immediately appear, though absolutely in the habit; but sometimes remain from seven to fourteen days, according to constitution. Putrid infection often circulates many days before its effects are evident; why, therefore, may not gouty, rheumatic, scrophulous, or other latent acrimony, remain in the habit a considerable time before it fixes on the membranes of the brain? This merits attention. The affirmative yes, to this question, proves the disease a phrensy.

6. Has the mental alienation arisen from violent passions of the mind, as love, grief, anger, pride, religious enthusiasm, or despondency?

7. Did the mental irritation begin and continue some months without fever ?

8. Are the *natural* and *vital functions* performed with little or no impediments?

9. Are the animal functions, or the mind, only affected?

The affirmative yes, proves the disorder chronic, and, in fact, madness.

Thus is determined by the authority of the most learned physicians, as well as by my own long experience, what constitutes the different affections of the intellectual faculties, and they are consonant to what I have observed in all the principal hospitals, or receptacles for the reception of what have been improperly nominated lunatics, in France, Italy, Germany, Holland, and the low countries. The anonymous censurers of the first edition of this Treatise on Madness, published in 1793, as to the veracity of my definitions, must have therefore only exhibited their own ignorance, or malevolence, and they never more will be considered worthy of the least attention.

A TREATISE ON

It has been observed, in my Treatise on hysteric and nervous Diseases, &c. that "mental "disorders have neither been scientifically con-"sidered, nor judiciously treated." Whether those assertions be proved, or whether the studious have been conducted to many new recesses, hitherto unexplored, on those abstruse subjects, must be submitted to the consideration of learned judges in the profession; judges who are capable of reading with impartiality, and determining with justice.*

* By professional judges should be understood, those physicians who have acquired the most extensive knowledge in medicine the art admits, by unwearied industry, perpetual study, reflection, and long experience, and who shew their erudition, not in magnifying trifles, but by successful practice in difficult cases, who say, with Hippocrates, the art is long, life short, &c. not those who have got great fame by little artifices, and who depend chiefly on the advantages obtained by dissipation and gay company. These latter study more how to attack human foibles than diseases, and depend more on the approbation of the credulous than the discerning, or in a skilful and honourable discharge of the humane duties of the profession: such probably are the persons who have inconsiderately attacked the definitions 1 formerly published, concerning madness.

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