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THE

LECTURES

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J. B. de MAINAUDUC, M.D.







LECTURES

OF

THE

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J. B. de MAINAUDUC, M. D.

MEMBER OF THE CORPORATION OF SURGEONS

IN LONDON.

PART THE FIRST.

London:

PRINTED FOR THE EXECUTRIX.

MDCCXCVIII.



INTRODUCTION.

A SUBJECT fo new, and which has excited fo much the attention of the Public, may render a flort account of the Man first attempting its Introduction to the world not uninteresting.

Doctor JOHN BONIOT de MAINAUDUC was defcended from a noble French family: his anceftors were driven from their native country for embracing the Protestant faith. They settled in Ireland. Our Lecturer was born in Cork. Of his medical life, the following account, which he felt himself called upon to give to his Students, in 1795, is in his own words.

"Though written at a moment when my numerous avoca-"tions render fuch a tafk truly inconvenient, this will, I hope, apologize for fuch inaccuracies as want of time may not perhaps permit me to correct, and will be fufficient for the candid; but to those who are not of that description, I freely make the bow of indifference, being, in every fense of the word, a Noun Subflantive.

" A claffical education prepared me to receive Anatomical " Inftructions from the late Doctor William Hunter, of Wind-" mill Street. " In 1769, I became a pupil in St. George's Holpital, and " a Dreffer in rotation, under Mr. Bromfield, Mr. Gunning, " Mr. Hawkins, and Mr. John Hunter.

" In 1770, I became pupil to the late Doctor John Leake, of " Craven Street, Strand; and attended the practice of Midwifery " under him, at the Weftminster Lying-in Hospital.

" I then became pupil to Doctor George Fordyce, of Effex " Street, Strand, for the practice of Phyfic, Materia Medica, " and Chymiftry.

" In 1775, I opened an Apothecary's fhop, in partnership with " Mr. I. Nicholas, in Clare Street, Clare Market, and afterwards " took Mr. Mills into that part of the business which Mr. Nicholas " refigned.

" In 1777, I prefented myfelf at Surgeons' Hall for examination, and was received and fworn a Member of that Corporation for London practice.

" Having now fulfilled my plan of acquiring a fufficient know-" ledge of Pharmacy, I refigned the bufinefs in Clare Street to " Mr. Mills, and purfued the practice of Surgery and Midwifery " in Leigh Street, Red Lion Square, and in Bridges Street, " Covent Garden.

" In 1778, I removed to Cecil Street, in the Strand, and became a Teacher of Anatomy and Midwifery.

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" In 1779, I became phyfician's pupil at St. Thomas's Hofpital, " under Dr. George Fordyce, Dr. H. R. Reynolds, and Dr. I. " Watkinfon.

" I now confulted Dr. George Fordyce on the mode of obtain-"ing a diploma in phyfic, who informed me, that no Member of the Corporation of Surgeons could, by their bye-laws, become a Fellow of the College of Phyficians in London, without being disfranchifed from that Society; as fuch he advifed me, rather than relinquifh the Surgeons' Company, to make application to the College of Aberdeen. I followed Dr. Fordyce's opinion: my Certificate was figned by him and Dr. John Leake; and I received a Diploma.

" In 1782, I gave up my practice in London, and went to " Paris; and in 1783, received letters from Dr. Fordyce, * and

* DEAR DOCTOR,

It would give me great pleafure to be of any use to you, or to tellify your great abilities in any way in my power; but I have not the honor of being known in the least to the Duke of Manchester, and therefore cannot think of intruding upon him by a letter. Believe me, it will give me great pleasure to hear of your fuccess any where; and that I remain

Your most Obedient

ESSEX STREET,

Humble Servant,

G. FORDYCE.

JULY 16, 1783.

1.1

" Mr. John Hunter, * bearing teflimony of my abilities. His " Grace the Duke of Manchefter, then the Englifh ambaffador, " politely undertook my introduction to the Court of Verfailles, " to receive the appointment of Quarterly Phyfician to the King " of France.

" To qualify myfelf for that appointment, it was neceffary to " become a Member of a French College; and, in 1784, I pre-" fented myfelf at the College of Rheims; where, after the re-" gular examinations, I received another diploma in phyfic. An " exorbitant demand made by the French Phyfician, whofe " place I was to fill, determined me to relinquish the project; " and in 1785, I returned to London. Since that time it has

· SIR,

to

If any thing from me can add to your reputation, you are extremely welcome to it; and indeed you have in fome degree a right to call upon me, from having received part of your education under me at St. George's Hofpital; and from your other purfuits in queft of knowledge, I have every reafon to believe that your qualifications in the phyfical line are unexceptionable. I have not the honor of being perfonally known fo the Duke of Manchefter, therefore cannot with any degree of propriety write to his Grace. I with you fuccefs, and am,

LONDON, JULY 14, 1783.

Dear Sir,

Your most Obedient,

And most humble Servant,

JOHN HUNTER.

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" fallen to my lot to make fuch difcoveries in Anatomy, in " Difeafes, and in their Mode of Cure, as well as in Midwifery " and the Animal Œconomy, as were most anxiously wished " for, but little expected to take place within the limits of the " prefent century."

And here it may not be improper to introduce an Address read by Doctor DE MAINAUDUC, in April 1786, at his house in Bloomsbury Square, to a most respectable assembly, met to see and examine the effects produced by his new and important Discovery. He begins,

" There are perhaps few undertakings more ungrateful than " that of forcing conviction, however beneficial the fubject to " Mankind: That which honors me with your prefence, fo widely " differs from all medical and philofophical reafoning, that the " world in general are apprehenfive of crediting even the evi-" dence of their own fenfes: confequently, those who should " appear foremost in the cultivation of a Science of fuch infinite " confequence, and to whom, and to whole opinion the world " naturally looks up, withhold even their attention, until fome " more hardy and lefs tenacious of perhaps their vanity, pave " the way for their appearance. Is this well judged! Is there " no improvement beyond our mufty folios and trite fchool apho-" rifms! Is the healing art fo perfect as to need no affiftance! " Are we never mistaken in difeases, nor unfortunate in our " mode of cure! Is it not poffible, that to torture the animal, " vegetable, and mineral kingdoms, in queft of new drugs, the " greatest genius may have quitted the easy, fimple path of

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" Nature, and loft himfelf in the well-meant purfuit! And, fhould " this appear to be the cafe, who has the greateft merit; the " man who, open to conviction, quits his error; or the obfli-" nately blind, who dreads to perceive what may wound his " pride? Such conduct can not efcape reprobation; unlefs, " indeed, perfeverance can convert error into truth.

"This pregnant age produces daily difcoveries; those difcoveries either are, or are not, fallacious: and how is the world to judge them, but through the tribunal of the fcientific and candid? Should not then each difcovery undergo an impartial examination, and fland or fall by that teft; and fhould not the man who holds it out be applied to for that purpose?

"This is my cafe: the fubject I offer, either is, or is not a deception; and either muft, or muft not be beneficial to mankind. If an imposition, it should be detected, and the world undeceived; if not, it should be cheristed and improved; if detrimental to the community, that community should be guarded against its influence; if beneficial to mankind, who can be fo far their enemy as to withhold it from them? But whom shall we appoint to judge? None, furely, can be adequate to that task, who will not follow, learn, and shriftly examine it.

" This Science, fo far from being entirely a modern difcovery, " was practifed two hundred and fifty years ago by Phyficians " of note and merit; but being enveloped with ridiculous nof-" trums or machinery, it dwindled into oblivion. By three years

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" Attention, Practice, and exceffive Expence, having difcovered " that all machinery is unneceffary, and that the power is wifely " given, for great and good purpoles, to every individual by " the Almighty Ruler; I think it my duty to prefent it to my " Country, and am daily requefting the Faculty, the Public, and " the Benevolent, to accept it from me, for the general good " of Mankind.

" For this purpole, I have deigned to lay alide, for a moment, " the dignity of the Phylician, and throw open my doors for the " reception of the Curious, and examination of the Incredulous. " And here, in the prefence of Almighty God, I do most folemnly " affert, that there is not the most diffant shadow of Deception, " Preparation, or Combination, used by me, by the Patients, or " by any other perfon whatfoever connected in it with me; for " the further confirmation of this, I have called together fome " of my patients, and shall esteem myself obliged by those who " will take their addresses, and minutely enquire into the fubject.

" Every man is, I believe, more or lefs affected; but it is " unfortunate for the incredulous, that marked Effects, or Crifes, " are in general produced only in the difeafed and delicate, and " not always even in them; as feveral have been cured without " Crifes.

" Rheumatic, nervous, and feveral other chronic difeafes, have " been cured by this Science, which had withflood our regular " medical Treatment; but I dare not as yet (1786) decide how " far it may be univerfal.

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"There are annexed to this great Difcovery, circumftances of "the moft aftonifhing nature, which it would be imprudent to "hold out to thole who do not intend to purfue the fubject. I "neither expect nor defire you fhould pin your faith on my fleeve, but advife you to feek conviction and truth from the evidence of your fenfes.

" I again invite the Faculty; fix of whom I will inftruct gratis, on condition that they promife to receive nine poor patients every day at their Public Treatment for cure.

" I am accufed of introducing a doctrine injurious to the inte-" refts of my brethren. My anfwer is very fhort: Let them learn " it; if found beneficial, ufe and improve it; if not, lay it afide, " as we have done many fafhionable medicines. Whilft doing " good to Mankind, I am as indifferent to approbation as difre-" gardful of cenfure, being dependant on no man.

"Thus far I have, at the expence of a confiderable part of an independent fortune, invited the Curious, and importuned the Faculty, to witnefs a truth, which, if properly purfued, muft lead on to further difcoveries of the greateft moment; a truth which has repeatedly reared up its head, and has as often been crufhed by the ignorance of its followers. This is the first time it has been divefted of quackery and exposed to public examination; and I glory in being the only Man who am hardy enough to endeavour to convince Mankind, that they want neither animal, vegetable, or mineral preparations to produce effects on animate and inanimate Beings; that they

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" poffefs a power in themfelves of which they are ignorant, and " want but little inftruction to do more than they are aware of. " I open to you an aftonifhing field, if you dare to cultivate it; " a field which muft redouble the religionift's devotion, confirm " the deift in the exiftence of his God, and fill the atheift with " aftonifhment."

This was the Doctor's address in 1786.

In 1795, after the account of his medical life, he adds,

" I have already imparted thefe difcoveries to two hundred " and feventy Students; on whom I beg leave to call for teffi-" mony; and who, though they are not at liberty to divulge " the inftructions they have received, during my life, are too " well acquainted with the duty they owe to Society not to " fpurn at deception. Had I confined my difcoveries to myfelf, " or even a chofen few, my Medical Brethren and the Public in " general might have room to think me culpable: but while my " houfe is open to fludents at a fum too infignificant to be con-" fidered as an object of prevention, it muft be concluded that " parfimony, obftinate pride, or unfounded incredulity, are the " obftacles to a general knowledge of what I am in poffeffion " of; or of undeceiving the public, if I pretend to a knowledge " which I can not explain." The Doctor died on the twenty-fecond of March, 1797. His memory will ever live in the breafts of thofe who enjoyed his Friendship, and knew his Worth. The imperfect and incorrect flate in which his Lectures and Manufcripts are left by his fudden and unexpected removal, the Admirers of the Science can not fufficiently lament, and the Public will have caufe to regret, from the inaccuracies which may be found in these Lectures. But it has been judged preferable to fubmit them to the world in the Doctor's own language, left, from the correction of any perfon not fo thoroughly conversant with the fubject, the fense thould in any inftance be altered.

der beste bene und aber ball

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S S B E R B S I U С R

TO THE

PA S T F I R R T

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THE LECTURES.

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LECTURE I.

LADIES AND GENTLEMEN,

THE Subject which honours me with your attention, differs fo widely from all received opinions, that to underftand it clearly, it will be neceffary to diveft the mind of every imbibed prejudice. I flatter myfelf you will foon perceive that fuperiority, which truth fo uniformly maintains over all imaginary theories.

The more novel, and the more abftrufe the fubject, the greater the required attention, until, as in all new languages, the alphabet or outlines become perfectly familiar: this obfervation is peculiarly applicable to our prefent purfuit; fince, without a clear idea of the *as yet* unknown mechanifm of the human body, and of the atmosphere in which it is placed, all defcription of its difeafes, or inftruction for their removal, must remain enigmatical and ufeles.

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You are to learn the means of producing marked effects on the human body, without approaching or touching it; and to cure the difeafes to which it is incident, without the application or exhibition of any fubftance whatever. But it does not follow that fuch effects fhould be produced without caufe, nor that fuch caufes fhould be fimple or infignificant; on the contrary, they will be found to be natural, yet complex; concealed, yet familiar; abfent from our intimacy, yet ready at command; and now difclofed for a moft ferious purpofe.

The mind, unaccuftomed, by the general mode of education, to confider that fpot in the univerfe which we inhabit, in a fufficiently extensive light, conceives it to be a Globe, furrounded by an atmosphere; that vegetables grow, and animals move and feed on that globe; whilft Man is taught to confider himfelf as a momentous creature, endued with fovereign dominion over the lives and liberties of every other animated being.

It is taken for granted that the Earth is placed in the great expanse, and furrounded by a medium of atoms, a part of which it attracts by the rapidity of its motion, and appropriates to itself as a conflant attendant. But we fhall find that this fubject demands our more intimate acquaintance. That the Earth, its atmosphere, and all their productions are only one, and that each is but a feperate portion of the whole, occafionally produced, and received back into itfelf, for the purpofe of maintaining a continual and a regular rotation of animate and of inanimate fubflances.

The apparent object of the fcience is the removal of difeafes, and the detection of its caufe. The neceffity for the laft is but too well known by those to whose lot it has fallen to exhibit medicine: and the uncertainty of the first is feverely felt by those who are unfortunately condemned to the use of drugs.

How fortunate for the prefent, and for future generations, if reafon had taken a more early lead to fave ours and our parents' conflitutions from the baneful effect of *medical errors*, and from fuch mineral and vegetable poifons as deftroy those parts and proceffes in our inimitably curious machine, as anatomical refearches have not hitherto become acquainted with !

How painful the reflection, that ill-judged prejudice

fhould be fufficiently prevalent to fhut out conviction, even from men of allowed candour in other refpects; and that fcholaftic aphorifms fhould be fo implicitly adopted, as to preclude the followers of the healing art from an impartial inveftigation, though fo loudly called for by continual want of fuccefs !

Every regular practitioner was once a young fludent; read fuch authors, and attended fuch medical profeffors as the age he lived in held up for eminence; having paffed through their tuition, he adopts their opinions; and grafping to his practice each new fuggeflion, overturns even Nature in her most falutary efforts.

We often fee a Cough, for example, moft vigoroufly attacked by bleeding, by bliftering, by expectorants, and by the whole train of weakening prefcriptions, fo effectually filenced with the patient's lofs of ftrength, as to encourage even the practitioner himfelf to pronounce the victim out of danger, even at the fhort period of a few hours before his death. I wifh it could be faid that this example was the only one of fuch misfortunes. How effential for mankind to know, that all the alarming appearances of Fever, Ague, Cholic, and Convulfion, fo voluminoufly written on, and fo lavifhly prefcribed for, are *fymptoms* only and not *difeafes*; that they are efforts of Nature, critically fet up to cure herfelf, and confequently, that they are to be cherifhed and encouraged; by which means they become efficacious and fuccefsful: and that every attempt by bleeding, by vomiting, by purging, or by regimen, to remove them, is injurious and deftructive, and by no means to be fubmitted to!

As our prefent difcoveries throw a totally new light on the formation of the human body, on the atmosphere in which we vegetate, and on the animal œconomy; fo they give us the true fystem of difeases, their origin and their progress, and afford us the certain means of removing every curable difease without any the least affistance from medicine or from mechanical contrivance.

We no longer want fymptoms to guide our judgment, nor drugs to produce evacuations; we poffefs within ourfelves the power of inducing those effects, and are kindly furnished by our great Creator with the necessary means of afcertaining and removing fuch difeafes, provided we properly feek for the invaluable privilege of calling them into action.

This moft exalted Power of afcertaining and of removing difeafes, is not a new acquifition, it is a faculty inherent to man; it is not of accidental production, nor of dubious efficacy; but it is flamped by the unerring Hand of the Almighty on his creatures, for their reciprocal advantage: this Power had funk infenfibly into oblivion by depravity of manners, and is once more reftored to cultivation, for the temporal and eternal benefit of those by whom it is **PROPERLY** received.

Transfer no longer when thematometry with our full meets

THE EARTH

Is the first object of our investigation.

The Earth is a globe, furrounded by its atmosphere. To form an idea of that globe, its atmosphere, and inhabitants, we are naturally led to confider it in an original flate, from which it must have arrived at that in which we now fee it.

As it appears to be composed of folids and fluids; that the fluids may, by cold, be rendered folid, and the folids, by heat, become fluid; we naturally conclude the entire mass must have been originally either folid or fluid.

It will appear to be perfectly indifferent for our theory, which of those flates first existed, but as it is neceffary to make choice of one to affist description by, I take that of universal folidity, or privation of heat.

The Earth, we will fay, was folid, at reft, and compofed

of very minute particles of matter of three different kinds; that is, earth, metals, and ice.

Those component parts of the Earth and atmosphere, are not promiscuoully thrown together to form the *Globe*; but are wonderfully arranged in strata or layers; this appears in perpendicular sections of the earth; in the edges of land divided by the sea; and in currents and clouds, passing at the same time in contrary directions in the atmosphere.

The Earth is allowed to be, and really is, furrounded by its atmosphere. But if the Earth and its atmosphere were feen as a diftant object, the entire would appear as one folid mass.

If the Earth and atmosphere had continued in a flate of folid congelation, no fluidity, and confequently no vegetation, could ever have taken place; becaufe fluidity is effential to vegetation.

To convert folidity into fluidity, heat was neceffary; that is, it was neceffary that those atoms flould become detached and separated from each other, which had been contracted and clofed together by cold, and this, heat only could effect; it was requifite that this degree of heat fhould be produced by fome caufe, and that caufe we fhall find to confift in action.

By Action, we underftand the ftriking or rubbing of one particle, or mafs of particles, against another, this process of action produces a return of the ftroke, which is called re-action. The continuance of fuch percuffions induces and creates heat, and the ceffation of friction or action gives again place to cold and folidity.

As action and re-action produce heat, fo encreafed action augments the degree of heat by which the atoms of the heated fubftance become deftroyed in their natures, and feparated from each other, producing what we call fire, flame, and light. This a few trite examples will amply prove.

The blackfmith produces heat, and lights his forge fire by filing or hammering a piece of iron, and applying to it ftraw or any other fubftance whofe pores are very open, and in which any oily or uncluous matter is contained.

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Carriage wheels take fire when the axletrees are not fufficiently greafed to prevent friction, or action and re-action between their furfaces.

Action and re-action between a piece of flint and fteel, or between two flints, will caufe a fufficient degree of heat to render the atoms, ftruck off in a ftate of ignition, thereby becoming luminous melting globes.

Boats are fet on fire by the running out of the line, to which the harpoon is fixed, in the whale fifhery.

The native of Africa and India produces his fire by rapidly twirling a piece of wood in a hole dug in another foft log for that purpofe.

In fhort, a great number of inftances may be advanced in proof that the familiar process of action and re-action are the requisite ingredients for the production of heat, and for the conversion of folidity into fluidity. And the whole confpires to explain the means by which the earth and its atmosphere may have been adapted to circulation and life. Let us fuppofe the globe of earth placed by the Almighty Fiat, with many others of various fizes in a vaft expanse of atoms, all which are in motion, and employed perhaps in their respective allotted departments.

Those moving atoms must have flruck or actioned the external furface of our globe; re-action must naturally have followed, and heat must have been the refult. When, by continuance of this process, the degree of heat had arrived at thirty-two and a half of Farenheit's thermometer, the particles of ice must have thawed into water; the motions of the particles of water must have encreased the process of action, and confequently the heat must have become more general, and gradually penetrated the entire globe, from furface to furface through the centre, in every direction.

By this process those particles of matter were rendered fluid, which, whilst in a state of folidity, filled up the intermediate spaces between other particles of a less foluble nature: fo that now, particles of water or diffolved ice enjoy a free passage through those spaces, and amids those atoms actioning in their passages every particle with which they come in contact. Thus the neceffary heat is continued, and fufficient fluidity preferved, to admit of circulation and vegetation through the entire mass of earth and atmosphere.

We can have no difficulty to conceive, that whilft this natural process continues regular and general in its execution, the globe must be in a state of health: and that, on the contrary, when, from any caufe whatever, fome of those spaces become obstructed or stopped, or the circulation of fluid atoms by any means impeded, that that part of the globe, or of its productions, in which fuch derangement occurs, must be confidered as obftructed or difeafed. Hence a general axiom, that every part of our globe, whether earth or atmosphere, whilft it continues unaffected by obstruction or stoppage of circulation, is in a conftant and regular flate of action and re-action, and confequently is employed in the great work of producing and maintaining a fufficient and uniform heat for the prefervation of fluidity and circulation, without which all vegetation muft ceafe.

This profpect of the Earth, changed from folidity to fluidity and circulation, leads us to examine the general atmosphere, abftractedly from its earthy part.

THE GENERAL ATMOSPHERE

Is that part of the earth which we conclude became first fluid by action, re-action, and heat; fo that the external limits of the atmosphere are the bounds of the earth.

The atoms which conflitute the Atmosphere are fimilar in their natures to those which we call earth, but infinitely more minute and delicate; those of the earth being a deposition from atmosphere, attracted by the Creating Hand to the centre of the globe, for the great purpose of animal vegetation.

It is neceffary to acquire a diffinct idea of the limits of this atmosphere, and to recollect, that its first firatum or layer, begins, or is in contact, with that layer of the earth on which we vegetate; elfe we may be led to confider the atmosphere as beginning over our heads; we are from feet to head in that very medium, as fish are in water, but without their privilege of ascending into the other layers, without fome mechanical affistance. As we proceed in our future converfations, we fhall have occafion to confider thofe atoms which conflitute the feveral flrata of the general atmosphere, both in their homogenial or pure flate, and in their heterogenial or blended one. It is fufficient for our prefent purpofe to obferve, that they are at all times in motion; that, from layer to layer, they are fubject to difeafe from the intrufion of atoms impure in their nature, which infensibly accumulate into clouds or obftructions; and that thofe atmospherical fpasms or convulfions which we are accustomed to call tempest or florm, become frequently necessary for their cure; or, in other words, for the difpersion of their accumulated difeases.

The general atmosphere is that medium in which human and animal beings, as well as vegetables, grow; all which are affemblages of those very atoms which conflitute the Earth and its atmosphere, and are not bodies composed of other materials, and placed in that medium. The only effential difference between the particles which are employed in the formation of bodies, and those which are not, is, that fuch as are moulded into forms, are altered in their qualities by action, re-action, and heat; whilft the detached particles freely pass in every direction between those which are aggregated into forms for their nutrition and increase.

This profpect of the entire mafs of atoms which compofes our globe, or the earth, atmosphere, and inhabitants, deftroys all diffinction amongst them, and fully afcertains a *material verity*; that an universal connection must substitute between every particle, and mass of particles, contained within the bounds of that earth and its atmosphere, whether they be comprehended under the title of folids or fluids, or diffinguiss by the particular appellation of men, beasts, birds, fish, trees, plants, or grass; they are all evidently particles of the fame original mass, and are in regular rotation employed in the work of forming, nouriss.

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GENERAL CONNECTION.

WE fhall, in the courfe of our converfations, meet with ample proof, that a regular attachment univerfally exifts between all particles of a fimilar nature throughout the entire globe and atmosphere; and it will obvioufly appear, that those connections are not deftroyed by the accumulation of fuch atoms into maffes, but that they retain the power of producing impressions on each other, or of affecting fimilar atoms.

It will appear alfo, that all forms composed in and of any medium of particles, must be influenced by whatever affects that medium, or fets its particles in general motion.

Take, for example, a quantity of fand, and drop into feveral parts of it any gummy folution; each of thefe glutinous drops will accumulate a number of the grains of fand into forms of different fhapes; each heap will be an affemblage of atoms into a form; will be evidently a portion of the general heap of fand; will be compofed of the fame kind of particles; and will ftill continue in that general mass no otherwise differing from the entire heap, than by the grains of fand which composed that form being attached to each other.

Now, as all the grains of fand which conflitute this heap and its gummed-together forms, are in contact with each other; if one of the grains be put in motion it must firike those which furround it, and these again must affect the next; and fo all the particles of fand contained in the entire heap, must in their turn become affected.

A piece of water affords a fimilar example: water is as literally composed of detached atoms, as the heap of fand; and the fifh contained in it are composed of the very particles of that water, and are accumulated heaps of atoms; fo that the general detached atoms of water are in loofe contact with each other, and with those atoms which are accumulated to form fifh.

Now, if we ftrike this piece of water, or throw a ftone into any part of it, we perceive the impulse communicating by the agitation, and can not doubt, but each VOL. I. fifh must be affected, when that part of the water which furrounds it receives the impression.

If we bring thefe two examples home to the flate of the earth and atmosphere, each of their mediums and productions will appear to be fimilarly fituated, and fimilarly affected by fimilar causes; fo that every form in the earth and atmosphere must receive and partake of any impulse received by the general medium of atoms, in which and of which they are formed, whatever may be their number, or the extent of their medium.

Having taken a view of the particles of matter as occafionally collected into forms or bodies, we are now to confider the laws to which fuch forms are fubject.

COMPOSITION.

ALL forms are fubject to one general law; that is, fome of their conflituent atoms are rendered fluid by heat; and the fluid ones form ftreams, and convey into the form atoms for its increafe and nourifhment: this is called Composition by vegetation and circulation.

Circulation conftantly brings in particles for the growth and nourifhment of every form, from the time of its composition; and those particles are converting, by action, re-action, and heat, into fuch kinds as the nature of each part demands, and supplying the places of those which are rendered useles.

The particles brought in, and employed for the nourifhment of each part, lofe of their nutritive quality, and are rejected or thrown out of the form; whilft circulation keeps up a conftant equilibrium.

Thus, circulation not only brings in particles for the growth and nourifhment of each part, but it carries off, alfo, the ufelefs ones out of the body. It is difficult to fay which of these operations is most effential: if particles were not brought into the form, the process of composition must cease, and the form fall into decay; and if those particles, whose virtues are exhausted, were not expelled, obstruction must soon arise and destroy the form.

The paffages through which these particles pass in and out of all forms, are called Pores; and the atoms expelled through them come under two denominations.

prowth and notifyithment of every form, from the time

POROSITY.

The univerfal Porofity which exifts throughout nature, is in itfelf a moft curious phenomenon: but the porofity of human forms becomes a neceffary object for our attention. It would be impoffible to comprehend it as extensively as our practice will appear to demand, without keeping in view the formation of bodies in general, and of the human form in particular.

By a Pore, we are to underftand a fpace formed between every two folid atoms in the entire vegetating world, by the liquefaction of the atom which, when folid, filled up that fpace.

The intent of pores is to allow the paffage or circulation of fluid, and of atmospherical atoms throughout all nature, and in every direction.

As circulation, vegetation, and confequently animal life, arofe from the formation of pores; fo the deftruction of them muft terminate every process of animal exiftence, and confequently each partial derangement of porofity induces *incipient* deftruction of the form, or what is called difeafe.

Hence it appears, that action and re-action are requifite for the production of heat, which alone can induce fluidity; by which pores are created and perpetuated; circulation admitted; and vegetation conflituted. That every form is a part of the earth and atmosphere, is maintained by the laws of matter, whose purport is to aggregate atoms; to convey nutrition; to discharge fuperfluity; and to continue animal existence.

This leads us to confider Vegetation.

VEGETATION.

By the term Vegetate, it is generally underflood, the growth of plants without fenfation: but we muft employ that term in a more extensive light, and fay, that action, re-action, and heat, create fluidity, pores, and circulation; that circulation, by conveying and depositing nutritious atoms in the various parts of the form, produces its growth or vegetation; that vegetation expands the feveral parts in their early flage; increases them in their prime; and nourist them in their partial decline, or decomposing flage: and that

Decomposition overturns the eftablished laws; deftroys each separate process; and

Terminates Animal Vegetation.

ATMOSPHERE AND EMANATIONS OF THE FORM.

By the term Vegetate, it is generally underflood, the

EVERY form, whilft in the act of vegetation, is governed by those laws to which the earth is fubject; that is, the folid atoms are feparated by pores, and the fluid particles rapidly purfue each other through those pores in every direction. This process is called Circulation; by whose affistance atoms of various kinds are carried on, deposited, and thrown out of each part of every form. Thus, every mass of particles is continually composing, and partially decomposing, throughout all nature.

Yet, though expelled from the circulating body, this immenfe number of atoms is not immediately condemned as ufelefs: but the Almighty Wifdom faw fit to ordain that each form fhould be continually furrounded and protected by an atmosphere peculiar to itfelf, composed of those very rejected particles of circulating fluids, and analogous to the general atmosphere of the earth.

This I have named,

The General Atmosphere of the Form.

The folid parts of the body throw off, in the fame manner, their ufelefs particles. But thefe are not employed for the fervice of the form, but become blended with those of the general atmosphere of the earth.

Thefe I have called,

The Emanations of the Form.

As it is effential clearly to comprehend this part of the doctrine, I beg leave to repeat, that

All animal and vegetable forms, whilft fupported by the acts of vegetation and circulation, are, at a certain diftance from the form, furrounded by their own peculiar atmosphere, conflituted of minute atoms, fent off from the circulating fluids, which having paffed through its pores, accumulate around it, to compose an elastic covering.

This covering does not continue to be uniformly composed of the fame fet of atoms, but is continually detaching fome of its atoms into the general atmofphere, and as regularly receiving a fresh supply from the fame fource.

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In the fame manner, every feparate and diffinct part of each form has its own peculiar atmosphere; and all these feparate atmospheres pass out through the pores to form this general one of the body.

Thus we perceive, that every fimple object of vegetation has its own general atmosphere; and that each feparate part of every compound form has also this elastic covering, all which combine to conflitute the general atmosphere of the form, which continually difengages atoms from itself, and fends them upwards into the general atmosphere of the earth.

Those emanations, fo far as we have been accustomed to observe them in the usual avocations of life, will appear to be very familiar to us.

We are perfectly acquainted with them under the title of Effluvia and of Evaporation; and we find no difficulty in receiving them on the nerves of our nofe, ears, eyes, mouth, or of our tongue, or in naming the object which affords us that imprefine, whether it be fugar, falt, opium, mufk, onions, garlick, fruits, flowers, fermented liquors, or fpices: and fimilar effects derive

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from animals, whether hunted, or of that kind called game, or arrived at a flate of putrifaction.

Coal-pits difcover their emanations by colouring the herbage black, over the whole extent of the mine.

Particles of gold emanate in the fame manner from gold mines, and gild the branches of fuch trees as hang over them.

The emanations which fly off from quickfilver mines and manufactories, affect the workmen's falivary glands; and mercury, ufed medicinally, filvers gold in the pockets and rings on the fingers.

Plumbers and painters are, too frequently, fuffering proofs of the emanating particles of lead.

Brimftone used internally or externally, emanates through the pores of the body, and tarnishes lace on the garments, or filver in the pockets.

Emanations from the Earth appear on the furface of timber, or boards laid over it for a fhort time.

Mercury begins to throw up particles in the thermometer-tube, after flanding about two years.

Sal Amoniac in five years produces a fimilar effect.

Water difcovers the atoms which proceed from it, by a mift over its courfe, which becomes more or lefs difcernible to our imperfect fight, according to the flate of the general atmosphere with which it is blended. Those emanations affect the nerves of some people fo powerfully, as to enable them, by walking over the part, to afcertain even the fize and depth of the flream or piece of water which throws up the atoms.

A Treatife, entitled, Botineau's Nofcopie, gives his method of afcertaining, by a mixture of atmosphere and emanations, not only the number of veffels in a fleet, but even their fize, the course they fleer, and their respective diffance from the harbour.

The Indian mufk-rat affords a curious proof of this fubject, as it renders wine unfit for ufe, by barely running over the bottles which contain it. Here we at once perceive not only the minutenefs of the emanations which proceed from the animal, but that of the porofity of the bottle and cork which admit the emanations, and yet prevent the evaporation of the volatile atoms of the wine.

Thefe, and numberlefs other examples, confpire to prove, that emanating atoms continually fly from the earth, and from all its productions; and that, as the earth, fo all its forms are furrounded by atmospheres, and paffed through by emanations peculiar to themfelves.

RECAPITULATION.

Permit me to recapitulate the fubject we have gone over.

Earth and Atmosphere are one body, composed of Atoms.

Every Form is a part only of earth and atmosphere, and is composed of fimilar materials.

The Globe and its forms are all fubject to the fame laws, and are fupported by Action.

Action produces Re-action; action and re-action produce Heat; heat produces Fluidity.

Fluidity produces Pores.

Pores produce Circulation.

Circulation produces Vegetation.

Vegetation produces Forms.

Forms are composed of Solids and Fluids.

Solids produce Emanations.

Fluids produce Atmospheres.

Atmospheres and Emanations produce partial Decomposition.

Total decomposition is Death.

Death and decomposition return the Atoms to the general mass for Re-production.

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Having confidered Nature from the flate of univerfal folidity to vegetation: and having purfued her on to the formation of animals, we are next to felect Man, or the Human Being, abftractedly from the other forms.

In Man is comprifed, in miniature, the entire vegetating fyftem in its greateft perfection. His form is composed of pipes, beyond conception numerous, and formed of particles, between which the most extensive and minute porofity admits, in every direction, the paffage of atoms and fluids of various denominations.

A bony foundation, formed of particles, limits his fize, and conflitutes the ground-work of his figure. Thefe are covered with fofter fubftances, and are moulded by them into beauty and fymmetry: ropes, compofed alfo of atoms, pull thofe bones into motion; and the whole is nourifhed by fluid atoms, drawn from the medium of his refidence, and from the aliment admitted into his form.

If we confider Man as an affemblage of atoms, his component particles will appear to be minute in the extreme. An example of metallic minuteness may prepare us to conceive that of man.

If one fingle grain of gold be melted in one pound of filver, that grain will become equally divided in the entire pound. Now, if one grain of that pound be diffolved in aqua-fortis, the 5760th part of a grain of pure gold will be found to have fallen to the bottom of the folution.

How minute, then, must the particles of gold be, when divided in the pound of filver !

Mercury affords another example :

The globules of quickfilver divide fo minutely by trituration with oil, 'gum, or water, as to become invifible to the naked eye, and pafs through the human pores by friction; fome of them circulate with the fluids, and pafs out again through the pores, whitening gold held in the mouth, or placed in the pockets.

Let us now take a view of the minuteness of animal matter.

Leeuwenhoek tells us, there are more animals in the roe of one cod fifh than there are inhabitants on the face of the whole earth; and that he found, by comparing one of thefe animalculæ in the microfcope with one grain of fand, that the fand was bigger than four millions of the animalculæ.

Thefe examples naturally call forth our adoration of that Being, who alone is capable of forming thefe animalculæ, each of which muſt have veſſels for juices to circulate in, elſe it could neither live nor move. It is computed, that one fingle particle of the blood which flows in fuch a little animal's veſſels, muſt be as much finaller than a globe of the tenth part of an inch in diameter, as that globe would be fmaller than the ball of earth which we inhabit.

Microfcopical experiments give us an idea of the porofity of animal flefh.

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One fquare or cubic inch of folid flefh exhibits Two hundred and fifty thoufand orifices of bloodveffels:

Nine millions of veffels called Lymphatics; and

Three billions, two hundred and forty-four millions of veffels, carrying ferum only, without red particles:

Making in all, in that one fquare inch of mufcular flefh,

Three billions, two hundred and fifty-three millions, two hundred and fifty thousand orifices of pipes.

This is, I believe, as much as has at prefent been rendered visible by the combination of glasses.

Sir Ifaac Newton fays, "This whole globe of earth, nay, all the known bodies in the univerfe together, as far as we know, may be compounded of no greater a portion of folid matter, than might be reduced into a globe of one inch only in diameter, or even lefs."

What then fhould we expect to fee, if vision was permitted to be perfect? No doubt, the entire body would appear like a honey-comb, with the most flender atoms of feparation between each pore. This unlimited porofity is wifely ordained to afford a free paffage, in every direction, for the atoms of the general atmosphere; without which, the spaces between the atoms must close, and the fluids lose all power of circulation: hence action must cease, heat must become destroyed, and fatal decomposition must take place.

By the continual paffing of the general atmosphere through the fystem, it is at all times full of air. Sir Robert Boyle and Mr. Hales made the following experiments, by which they found, affisted by the air-pump, that

One cubic inch of Blood gave thirty-three inches of air: that Chyle and Milk contained ftill a greater quantity: that one inch of Fat yielded eighteen inches of air: that Bile encreafed in the exhausted receiver to ten times its volume: and that Saliva fwelled to fourteen times its fize.

As this immenfe quantity of air is continually paffing in and out through every the most minute part of the body; it is evident, that it must carry with it into the form fuch atoms as may become mixed with it in the general atmosphere, and they must either pass out again with the general atoms, or must, in consequence of some accident, stop in their passage and be confined in some part of the body.

If those atoms should be of a poisonous or destructive nature, they materially injure such parts as they pass through, or stick in. But if, on the contrary, they should be healthy and natural, they materially contribute to the support and nourishment of the form.

Of this we have flriking examples in butchers, publicans, cooks, and feveral other occupations, who, by living in the atmosphere of nutritious fubflances, generally become corpulent, with flender appetites; whilft painters, plumbers, dyers, and those who are employed in the atmospheres of pernicious fubflances, become gradually difeased, and frequently lose the use of their limbs, a confiderable time before decomposition takes place for their relief.

Hence it appears, that the free circulation of healthy atoms through the entire form is neceffary; that obftructions of its porofity, or ftoppage of its circulating particles, must create derangement in the fystem, and be followed by difease.

To obviate this evil, the Provident Creator formed in the body innumerable conductors, adapted by their extreme fenfibility to convey information of fuch impreffions as they may receive on any part of the body, or of its extremities, to the fenforium, or feat of reflection, which, according to the nature of the impreffion, or the injury received, agitates, fhakes, or contracts the form, to thruft forth the offending caufe, and refcue the fyftem from deftruction.

This inimitable property in the animal œconomy, is Nature's eftablished mode of cure, acting more or less powerfully, according to the existing cause; and the efficacy of the exertion depends on the strength of the fystem.

If the fyftem is enfeebled, the efforts can not fucceed, and the obftruction accumulates.

Those falutary efforts, fo wifely ordained for the occafional removal of obstructions, have most unfortunately been miftaken for difeafe, and divided and fubdivided, in the fchools of phyfic, under numberlefs titles. Hence the moft violent, the moft deftructive, and the moft poifonous ingredients are employed to filence Nature in her falutary proceffes.

The blood, which is the very effence of animal life, is lavifhly fpilt; food, which is the principal fupport of the fyftem, is prohibited; and frequent change of atmosphere, ordained to refift putrefaction, is made to give place to that of a confined bed-chamber.

If we add to this lift of egregious errors, the frequent prepofterous exhibition of drugs, we can not be furprized at the daily conversion of flight obstructions into fatal difease, which our future discours will, we hope, enable us to conquer. LECTURE II.



LECTURE II.

glaffes has introduced to an differentneut fome objects

IN our laft difcourfe, I obferved that the nervous fyftem is the medium through which every impression received on the form is announced to the feat of its judgment.

Those impressions are comprehended under five separate divisions, called Senfes, and diffinguished by the titles of Seeing, Hearing, Tasting, Smelling, and Feeling; each name deriving from that part of the form, which receives the impulse.

As every impreffion is received through one and the fame medium, difpofed over the entire form for that purpofe, it may with great propriety be advanced, that there is but One fenfe, and that all those impreffions, are divisions only of the fense of Feeling.

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The accuracy of any of those divisions depends on the health of the nervous fyftem in general, as well as on that of each particular division: but we have no flandard to afcertain perfection by in any of them; confequently our judgment on that head is drawn merely from the refult of comparison. The combination of glaffes has introduced to our difcernment fome objects with which we were unacquainted, and has enabled us to look downwards at inferior claffes. A greater degree of accuracy in the vifual organ, would perhaps enable us to difcover far fuperior ones: this, however, is wifely withheld from us, as we fhould probably be fhocked at the fight of what furrounds, paffes through, and is continually taken into our forms. The number and fize of the pores on the furface of the body, and the coarfenefs of the most delicate skin, would represent us to each other as rough monfters, until cuftom had familiarifed us to what must, at first fight, appear fo horrid and fo difgufting.

The nervous, or conducting fyftem, in the animal form, becomes a particular object of our purfuit: but we fhall find it to be only a portion of a much greater one, fimilar in its nature and department, but far more

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extensive in its employment. We shall render its existence and influence familiar by confidering the phenomena of Light and Sound, and shall perceive a general connection and a reciprocal influence substituting throughout the entire globe, and all its parts, by its intervention.

SOUND.

SOUND is a phenomenon which philofophy has laboured to explain. The moft approved theorifts agree, taking their example from a Bell, that Sound is produced by the tremulous motion of its component atoms, and which alternately changes its fhape, from round to oval, a million times in one inftant.

That the fhape of the bell alternately changes from round to oval, is proved by horizontally introducing a bar into the aperture, which counteracting one of the contractions, the bell muft fplit.

The atmosphere is allowed to be composed of atoms; and the conveyance of Sound is accounted for, by the atoms being displaced, and forced backwards and forwards to and from the bell, by its alternate contractions in opposite states.

But this theory falls to the ground, by placing a lighted candle near the bell. If the general atmosphere was agitated, wind must refult, and the candle must be extinguished: whereas, we shall find, that the slame will not be agitated whilst the bell gives its found.

As this experiment fully proves the impoffibility of Sounds agitating the atmosphere which furrounds the fonorous object, let us quit fight of that theory, to fubftitute the real process.

In the general atmosphere, of whose composition we are no longer in doubt, are found innumerable strings of the very component atoms of that medium. The business of these strings is to receive and to convey from and through every part of the atmosphere, of the earth, and of their inhabitants, such impulses as they may receive.

I call these conductors,

Atmospherical Nerves.

The employment of those nerves is fimilar to that of the nerves of the human body, to which those of the atmosphere are connected, or rather, of which they are a part.

Every impreffion in nature has its own peculiar fet of
conductors, and no two fets, or claffes, interfere with or impede each other.

Thus the atmosphere contains nervous conductors for Light, others for Sound; and fo on, for every impreffion; but those nerves are not constantly, nor are they uniformly, called into action.

Let us again return to the BELL.

The ftroke which produces the tremulous motion of its atoms, and the vibration of its form, produces alfo its found: this affects the neareft atom of the nerves of Sound. That atom is not then detached from its fituation, any more than is the firft atom of the nerve in our finger fent off to the head, to give notice when we accidentally hurt or prick it; but the imprefiion, which the atom receives, is communicated to the next atom of that nerve, and fo, from atom to atom, it is conveyed along each conductor of Sound, in every direction, decreafing in ftrength, until it either dies away, or is re-inforced by another or by a ftronger percuffion.

As the atmospherical nerves are not fingle threads,

but are composed of branches deriving, in every direction innumerably, from each other, the impressions they receive are conveyed on at all points; but they occasionally meet with interruption, and are turned aside by hills, by mountains, by buildings, and by other objects: yet they preferve their property of conveying each its own particular impulse along the course of their respective fituations.

The nerves in human bodies are placed in every poffible direction, ready to receive each impulfe, and to convey it on to the feat of our judgment: and in the fame manner, nerves of Sound are univerfally placed, and prepared to receive each imprefion. Every Bell is encompafied by Nerves of Sound: but the bell muft vibrate to affect the nerve; and human or animal nerves muft in the fame manner receive the impulfe, to become the meffengers of it.

But the atoms which conflitute the atmospherical nerves, do not all communicate to each other, with equal rapidity, the impressions they receive; thence fome impulses are conveyed along the nerves more flowly than others.

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The atmospherical nerves of Light deliver to each other more rapidly the impression of Light, than do those of Sound to each other, amid the nerves of Sound.

Hence philofophical enquirers have been enabled to calculate the difference of the velocity with which Light and Sound are conveyed from place to place.

To For example : alg-one railood menual ni rovisn od C

Light is found to travel at the rate of 198,000 miles in one fecond of time.

But Sound is observed to make its way only at the rate of a quarter of a mile in one fecond.

from the diff the shares of Sound ; but his bell mod

These calculations give room for feveral curious experiments.

In thunder-ftorms, for example, the burning vapour which conftitutes the flash, explodes before the clap commences.

The flash is conveyed to us by the nerves of light at the rate of 198,000 miles in a fecond; but the thunderclap creeps on by the nerves of found at the rate of thirteen miles in a minute. Hence, when we hear the thunder, we know we are fafe from that explosion of vapour, which must have passed off from us before the arrival of the thunder.

And by this comparative calculation of the velocity of Light and Sound, the thunder-cloud is computed to be diftant about one mile, when we fee the lightening five feconds before we hear the thunder.

The velocity with which a ball fhot off from a cannon paffes through the air, affords another fatisfactory example:

Those who are habituated to the use of artillery, are able to judge accurately of the direction in which a cannon is fired, by comparing with each other the two flashes of powder, one from the muzzle, and the other from the touch-hole.

They fland on a wall or fortification, and obferving the firing of the diffant cannon, fay, This ball goes to the right; that, to the left: but the well-pointed one flrikes the fpot, which they take care to leap from, as foon as they fee the flafh.

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The ball paffed through the air at the rate of three miles in one fecond: but the light of the burning powder was conveyed to the eye at the rate of 198,000 miles in one fecond: therefore, they had time to fee the flafh, and to get out of the direction before the arrival of the ball, which would have killed them before they could have heard the report of the gun; which report moved only at the rate of one quarter of a mile in one fecond.

That the atmospherical conductors of Sound do not obftruct each other, appears by Sound purfuing its courfe as well by day as by night: and that Sound is conveyed by conductors, appears when an eminence terminates the direction: if the general atmosphere received the found, it must at that point become a confused noise; whereas, the next branch of that class of fonorous nerves takes it up, and conveys it diffinctly on, under the title of an Echo.

Having thus far eftablished the existence of these wonderful aërial conductors, or atmospherical nerves, our next business is to class them. I have already advanced, that every fet of those conductors has its own allotted department. This requires explanation, as it must not be received in a general, but in the most minute fense.

Sound is the general term for a percuffion of the atmosphere, and the nerves of Sound are a general division of those from every other fet of nerves in the universe. But, as Sound is composed of a prodigious number of varieties, diftinguissed under the titles of Notes, or Tones, so the nerves of Sound are sub-divided into as many different kinds as there are tones in nature, each tone having its own diffined conductor, which is no more affected by any other tone, than are the nerves of Light by those of Sound.

It is neceffary to introduce the nerves of the human body, in aid of our prefent defcription; and to obferve, that human and atmospherical nerves, are not independant or unconnected with each other: but on the contrary, that human nerves are continuations of the atmospherical: all animated Beings being only as warts or excrefcences, which have fprung up in the atmosphere, on and amidst those general atmospherical nerves; fo that all forms are paffed through by them in every direction. Confequently, what affects that part of the nerve which is atmospherical, must also affect that which we are accustomed to confider as the nerves of the body.

Thus, the atmospherical nerves of Sound are parts of the auditory nerves, or nerves of hearing, in Man. The atmospherical nerves of Light are continued through man, to form his optic nerves, or nerves of fight; and fo on. Thus, the auditory and the optic nerves of one man are the auditory and optic nerves of every animated Being in the universe, because they are branches sent off from the great trees of the same denomination, in the parent earth and atmosphere.

It may be afked, how Beings move in the general atmosphere, amidst all this immense number of strings; and what prevents their destruction or derangement, when the atmosphere undergoes those violent agitations with which it is fo frequently affected?

This difficulty is prefently anfwered, by reflecting that aërial nerves are, like those of animated forms, composed of atoms; those which are accumulated into forms are in clofe, but those of the atmosphere are in loose contact with each other, for this obvious reason, that the neceffary preffures and circulations may not obstruct them in the confined form; and that the passages of fubstances or atoms through them may not injure those which are at large. We may take an example from a hole in a window-shutter, through which a ray of fun-shine is admitted; the atoms are visible, and the hand passes through and amidst them; but they instantly refume their fituations by their attractive connection.

That the nerves of the general atmosphere, and those of animate forms, are not separate softeness of conductors, will appear by following them in their respective occupations: and here we shall perceive every tone, note, or found in nature, to have its own separate conductors in the general atmosphere, and in every animate and inanimate form, by which alone it can be conveyed or imparted.

I fhall endeavour to reft this doctrine on example; and at the fame time advance the following material facts: That every inanimate fubflance is attached to its fimilar.

That all animate and inanimate fubftances are attached to each other by every fimilar part, in each of their compositions.

That all animate Beings are attached to each other by every fimilar atom in their refpective forms.

And that all thefe attachments are formed by atmofpherical conductors or nerves.

For example :

Let two piano fortes, or other mufical inftruments, perfectly in unifon or accord, be placed, one at each end of any apartment, and it will appear, that whatever note is firuck on one will be repeated by the other inftrument.

If the key of A be touched in one, the firing of A will vibrate in the other : if B be touched in one influment, A will not vibrate in the other ; but B will repeat the note : and in the fame manner, any note in the entire fcale will be anfwered by its fimilar only, and by no other note in the influment.

If this found or imprefiion affected the general atmofphere of the apartment, every ftring must receive the influence, and all muft vibrate and give tones. But as each particular note has its own peculiar conductor already arranged in the atmosphere, the nearest atom of the conductor of the influenced note, having received the impulse, communicated it to the next atom of the fame conductor, and fo on, until the atom in contact with its fimilar in the other influencet, received and imparted it to the ftring, and fat it in vibration. When B was ftruck, the fame process took place, but the impression was not conveyed to A, because they are not fimilars, nor attached to each other, nor consequently can they be affected by the fame conductors or atmospherical nerves.

Hence it appears that two mufical inftruments, or inanimate fubflances, are attached to each other by as manydiffinct bonds of connection, as they are capable of producing fimilar founds.

Let us now fuppofe any unlimited number of mufical inftruments placed in one or in feveral contiguous apartments, and we fhall find that when A, B, C, or any other note is touched in any inftrument, the fimilar note *only*, in the fame manner vibrates in every other inftrument. The conclusion muft be obvious, that every inftrument is attached to that which was first touched, that all the instruments are reciprocally attached to each other, by as many points as they are capable of giving fimilar notes; and that the invisible atmospherical nerves are the immediate bonds of connection, and not the general atmosphere of their fituation.

That this effect is not confined merely to mufical inftruments, appears by various inanimate objects of ornamental furniture, china-ware, glaffes, and other fubftances, vibrating in the fame manner to fuch tones as they are in unifon with when that note is affected in any other inanimate object.

This proves that all fimilar parts of inanimate fubflances are attached to each other by atmospherical conductors, and that they are affected by each impulse, carried on their conductors.

This leads us to confider the influence between animate and inanimate fubftances: and it appears that by whiftling, finging, or fpeaking, amidft glaffes, china, and earthen ware, mufical inftruments, and many other kinds of fonorous objects, the notes or tones fo made will be repeated by the vibrations of those objects; and inflances are not wanting of fuch brittle fubflances being broken by the violence of their vibration.

Let us take another example :

The notes played on a thoufand inftruments of mufic are diffinctly heard by the ears of perhaps five times the number of human Beings, affembled in Weftminfter Abbey: and martial notes may be heard by fifty thoufand foldiers in the field. As each note has its peculiar conductor in the general atmosphere, fo each ear muft be connected with the atmospherical conductor of each note. So that every note has not only its feparate conductor in the atmosphere, but also its feparate conductor in every ear.

Hence it is evident, that animate fubftances, as well as inanimate ones, are in the fame manner attached to each other.

Let us now confider this influence in animate forms only, and we fhall find them to be affected by their fimilars exactly in the fame manner.

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The fenate, the pulpit, the theatre, military difcipline, and a number of familiar inflances, prove that each individual of an affembled multitude diffinctly hears each word delivered by the fpeaker; which words, or notes, muft be conducted to each of their ears by conductors, placed in the general atmosphere, and not by a general percuffion of the atmosphere, as in that cafe the notes, or words, could not be intelligible, nor could the confufed noife be tolerable.

Hence it appears, that all our Globe is replete with conductors, appropriated by the Great Creating Hand, to the aftonifhing bufinefs of receiving and conveying each its own peculiar impreffion, from object to object, and from place to place, throughout the entire earth and atmosphere; and that each animate form is fo wifely attached to those conductors and to each of its fimilars, as to receive reciprocal impreffions for various purpofes; but above all, for that of fulfilling the eftablished ordinance of fympathising benevolence and charitable affisfance to each of its fimilars, all of whom must appear in the ftrongest light to be members of one and the fame body, formed of one and the fame mass, attached to each other by indiffoluble bonds, and, in the ftricteft fenfe, brothers and children of one Univerfal Parent.

As the theory of Light affords an additional proof of the doctrine I advance, a few words on that fubject may not prove unwelcome.

LIGHT.

PHILOSOPHY tells us that the rays of light are flot off from the Sun, which is fuppofed to be a body of fire; and that they run through the atmosphere at the rate of twelve millions of miles in one minute, to ftrike our eyes, our body, or our earth.

Reflection effectually overturns this doctrine, and fhews that the most minute atom, impelled with fuch velocity, must destroy the eye, or break through the body.

A ray of Light is not fhot off from the fun, but the conductors of light receive the luminous imprefiion from the fun, and communicate it from particle to particle along the luminous nerve.

The Sun is, I have no doubt, a luminous body; but whether the Light it affords to other bodies is engendered in it, or only reflected by it, ftill remains unafcertained: feveral circumftances concur to render the laft moft probable.

For example :

Travellers are fometimes found frozen to death in the high mountains, called the Andes, in the torrid Zone, and are obliged to guard against the exceffive cold with the greatest precaution; and yet, from their proximity to the Sun, if it was an immense body of fire, we should expect rather the danger of being burned than frozen to death.

Balloon adventurers unanimoufly complain of the exceffive cold they fuffer as they approach the Sun.

But the univerfality of Light is a part of that fubject which more immediately claims our attention.

As every form or mafs of atoms is fo exceedingly porous as to contain more fpace than matter, and as the nerves of Light penetrate and pafs through all bodies, _ conveying with them fome degree of light, which from their proximity to the fun they continually receive, it follows that no part of the earth or atmosphere can be totally dark, and that there can not exift fuch a flate in nature as total darkness, whilft the Sun continues to be a luminous body.

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We are led into the erroneous idea of Total Darknefs, from the imperfect flate of the division of the faculty of feeling, by our eyes, without having any flandard of perfection to judge from; all our gradations of Light are merely the refult of comparisons, made from different degrees of imperfection, in the vifual organ. Every experiment and obfervation terminates in allowing the impoffibility of difcovering any fituation, in which fome animated Being or animal production, cannot fee fufficiently, to perform its own avocations.

The darkeft fubterraneous vault or cellar, though it immediately flews no veftige of light, becomes infenfibly fo altered, that the furrounding objects are difcernable.

Prifoners confined in dungeons, begin after a month, or longer, to perceive the nature of their walls, confequently an improvement muft have taken place in their faculty of difcovering objects by the nerves of vifion; and it is evident the dungeon was not totally dark.

The Cat catches its prey, as well as the Owl, in what we confider as darknefs. The Mole knows no want of light in his fubterraneous manœuvres. In Human Beings, we have as ftrong inftances, as those in the Brute creation.

A Girl at Parma faw objects as diffinctly at midnight, though her window fhutters were perfectly clofed, as fhe could by day-light.

Briggs gives an account of a man who read letters in the night.

Mr. Boyle tells us that a Gentleman confined in a dungeon, began in a few weeks to difcover light; it daily increafed, fo that he could diffinguifh his bed, and other large objects; at length he plainly faw rats, running about, and picking up his crumbs.

The Emperor Tiberius,

Scaliger, and his fon Jofeph,

Marcus Antonius Sabellicus,

Hieronymus Cardianus,

Cælius,

Afclepiodorus, and a very long lift of names, are all upon record, for feeing and reading well in the darkeft nights.

Fabricius ab aqua pendente, tells us of a man at Pifa, who faw well in the darkeft nights, but obfcurely by day.

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Julianus, a Monk, conftantly read in the darkeft nights, and never lighted a candle for feventy years.

In all these inflances we perceive there was no want of Light, and yet other people called it perfect darkness; confequently the defect must have been in the visual organ of those who could not discover Light.

But we have many inflances of human fight receiving this improvement by accident, by inflammation, by drunkennefs, by fevers, by fits of paffion, during which time all appeared light, which but the moment before was deemed perfect darknefs.

Mr. Boyle, Briggs, and feveral other Authors, confirm thefe accounts, and give inftances which it would take up too much time to repeat. One only I beg leave to felect from the Journal des Sçavans.

A gentleman received a ftroke in his eye by the fnapping of a lute-ftring; inflammation was fet up, and to his aftonifhment, he could from that inftant difcover the most minute objects, and read the fmallest type in the greatest darkness, but was perfectly dark of that eye by day or by candle light; fo that he habitually used the inflamed eye in what others called darkness, and the other eye by day.

In fhort, every circumflance tends to prove that light is continually prefent in every fituation, but not at all times in the fame degree, and that there is no fuch flate as abfolute darknefs, or privation of light in all nature.

Having eftablished the existence and the departments of general and particular Nerves in the globe and in its forms, we are to confider the means by which we can occasionally affect them for falutary purposes.

Brouthpart alle numbered, frei den molitzeirunnen ihn molitzer motal, such den ver fir velig segs ell haffer quayet tisk flaire seimoffing releachiloche isomeet föreelde imper fir epen with that awe for futurity, which pulls the gout for difficies cion, all het inneffigation of simplead budge flactificants viewe the anticher occluing framelead budge flactificants viewe the anticher occluing framelead budge flactificants and the inneffigation of simplead budge flactificants viewe the anticher occluing framelead budge flactificants resident for alles an apple state innefficant in the second for alles an apple state innefficant in the present datasets, the are prefetter durit of the second granten datasets, the are prefetter durit of the second

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VOLITION.

NOTHING in nature can be more familiar than the various modes of employing the body, the head, and the extremities: every part, whilft in health, moves and acts obedient to command. And yet, how unanxious is the poffeffor to inveftigate a phenomenon of fuch importance! We now and then hear of a fported opinion on mufcular motion; where the writer, after dividing and fub-dividing mufcles, fibres, nerves, and ideas, huddles up a conclution, drawn from nervous fenfibility, and leaves the fubject exactly where he found it.

Medical practitioners, and more especially anatomist, fhould, of all mankind, be the most virtuous, the most moral, and the most religious. The frequency of their witneffing death-bed scenes should impress them with that awe for futurity, which palls the gout for diffipation. The investigation of the dead body should convince them that nothing can be found in it which could fet that complex machine in motion, or guide its thoughts and actions. The contraft between its mangled flate, and that in which they fo lately faw it, fhould imprefs them with the certainty of being themfelves fpeedily in a flate of diffolution. And the inimitable mechanifm of the whole body fhould leave no fhadow of doubt of its having been formed and governed by a very fuperior SOMETHING, to whofe Power it muft be fubject, by whofe pleafure it muft be influenced, and at whofe difpleafure he muft be lefs than rational, or totally abandoned, not to tremble and fhrink.

It is evident that the human Body is formed of that very Earth on which it moves; that it is nourifhed by receiving fome of that earth into its form; that animal life depends on action, re-action, heat, and circulation; that fenfible ftrings are formed in it for the purpofe of tranfmitting impreffions; and that those ftrings, by contracting, pull fuch parts of the form as are required to act.

Still those firings are merely infiruments employed by an agent, and that agent must hold dominion over them.

Each part of the body has its peculiar department:

they are all wonderfully adapted to complete that machine, which, when finished, is defined implicitly to obey a ftill more effential, though to us an invisible Agent.

The Bones are the fupporters of the form, and limit its height.

whole body flould leave no fludow of doubt of its

The Mufcles and Fat model its fhape and afcertain its fize.

The Nerves are ftrings of fenfibility, and meffengers between body and mind.

The Mind is the arbitrator over the bones, the mufcles, the nerves, and the body in general; and is that Something, which the anatomift's knife can neither diffect, difcover, nor deftroy.

But to define what that Something is, we must apply to the words of our Saviour. He fays,

" It is not ye that fpeak, but the Spirit of your Father which fpeaketh in you." Matt. x. 20.

" It is the Spirit that quickeneth, the Flefh profiteth nothing." John vi. 63.

"Know ye not, that ye are the Temple of God, and that the Spirit of God dwelleth in you." 1 Cor. iii. 16. "A Spirit hath not Flefh and Bones." Luke xxiv. 39. And when he died, he faid,

"Father, into thy hands I commend my Spirit." Luke xxiii. 46.

Many other paffages in the ineftimable Inftruction which our Saviour left us, inconteftibly prove, that the Body is unprofitable and valuelefs; that its actions are not its own; that the Spirit, which holds dominion over the nerves, is the invifible Power which guides the motion of the limbs, and of the tongue that utters the words. The decifions, the adoptions, and the commands of the Spirit are Man's Volition; by which he walks, runs, becomes recumbent or erect; and in fhort, without which the Body muft remain filent and paffive.

Thus, though there appears to be two powers in Man, the one a Mental influence, and the other Corporeal activity, yet the latter is not only perfectly dependent on the former, but is incapable of acting by itfelf or without its Volition.

Every word, every action muft undergo a certain mental procefs before it can be configned to the form for execution. This process will appear to be comprised in three divisions.

A Thought, or Influence, must first be conveyed to the Spirit, or Mind, by fome visible or invisible agent. This the Spirit is perfectly free to adopt or reject.

Having arrived at this fecond flage, volition arifes; that is, the Spirit commands fome part of its body to execute its will, and for that purpofe transmits its decree by the nerves or conductors of its Volition, to that part of the form, whose department it is to act, according to the nature of the object.

Hence it appears, that previous to corporeal exertion, a thought must be received, attended to, and adopted; an intention must be formed, and the spiritual Volition must command corporeal execution.

It is evident, that the body is unconcerned with the whole process, until it is commanded by the Spirit to act.

The first part, or that of receiving a fuggestion, is

confonant with the intent of man's creation, and is defigned for the Spirit's information, and is fubfervient to the bufinefs of the Spirit. The fecond, or the inveftigation of the impulfe, is dependent on Volition. The encouragement of the thought is alfo dependent on Volition; and the orders for its execution, are moft fully the act of fpiritual Volition.

This elucidates the procefs which each thought or fuggeftion undergoes in the Spirit or Mind, previous to execution, and fully accords with the words of our Saviour, that "from within proceeds every kind of fin and wickednefs:" Mark vii. 20 to 23. and again, that "by thy words thou fhalt be juftified, and by thy words thou fhalt be condemned." Matt. xii. 37. So that the Spirit is anfwerable for every adopted thought, uttered word, and act committed by the Body, as none of them could be received or executed without the exprefs Volition or command of the Spirit, and without which Volition, the Body is completely a cypher.

The neceffity for an exertion of the will is obvious, but the mind is not accuftomed to inveftigate the means by which it is performed, nor to feek for the privilege

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of improving Volition beyond the barely common neceffary avocations of life.

The execution of any fubject depends phyfically on the length of time neceffary for its performance, and on the undiffurbed continuance of the act of Volition, during that time. The leaft interruption, or the change of the will to any other fubject before the first intention is accomplished, totally deftroys the influence, leaves the act incomplete, and often renders fuccefs more difficult, from the eftablished law of habit and custom, or the tenacious propensity in every form to retain that flate to which it has arrived.

This axiom is unalterable: that to produce falutary effects in our fcience, the Suggestion must be pure and moral; Attention must be steadily fixed on the subject; Intention must be single, steady, and unwavering; and Volition must be vigorously exerted, continuing unvaried and unrelaxed, until the purpose is accomplished, or totally relinquished.

It will appear upon the whole, that a power of Volition may, if properly fought after, be called forth in Man, in a far more exalted degree than that which we exert for our general avocations. A power which is fubordinate to a far Superior One, by whom it is portioned out to individuals, according to the purpofes for which they exert it, and is, in part, or totally recalled when abufed or neglected.

If what we undertake is truly moral, and confonant with His Will, the Great Fountain, from whence we derive our existence, our volition, and our power of exertion; favours the process, and fuccess follows the undiffurbed attention.

But it must be remembered, that if confcious rectitude does not form the basis of our plan, experience will foon convince us that we erect an edifice on a fandy foundation.

We have frequently inftances of effects being produced by perfons totally ignorant of our fcience.

Supported for a time by any erroneous theory, certain exertions are called forth, which irritate the nerves of the object, against whom they are directed : but fuch VOL. 1. L triflers are foon overturned, and want of fuccefs convinces them that by unfteady and improper dependance, added to want of real knowledge, they are permitted to execute juft enough to prove that a ftronger fupport is within their reach, by which their effects will be as great as their dependance and rectitude.

Here we find the infignificant power of Sympathetic Powders and Oyntments, fo voluminoufly extolled by Paracelfus and Digby; the ridiculous Magnetic Poles of Fludd, Gaffarell, and Mefmer; the noftrum-monger's fealed letter for the tooth-ache; the candle-fnuff bolus for the ague; the fweaty-hand of a dying malefactor for wens; living fpiders for jaundice; the univerfal abracadabra and triangle: in fhort, the entire lift of unmeaning, but infallible fecrets, which have from generation to generation been preferved in families, and imparted, under the flricteft tie of fecrecy, to favourites only, as dying-gifts of ineftimable value. All thefe well-meaning good people have been bufily employed in exerting the fame means unknown to each other, or even to themfelves.

But we fhall find that by relying on the Giver of all

power and knowledge he will enable us to exert a Volition derived from himfelf. That he gives that Power for good purpofes only, and that it cannot be called forth for bad ones; that flight effects may occafionally be permitted, to prove the exiftence of that Power: but that improper ones will terminate in elevating the imprudent only to render their fall the more confpicuous and the more exemplary.

Permit me to intreat you timely to reflect on the very, very momentous Charge you are now undertaking: remember the parable of the Talents, and the fate of the indolent Servant; remember, that from him to whom much is confided, much will be required. That by the myfteries into which you are now initiating, and which are totally unknown to the world, (yourfelves, and your inftructed brethren excepted) the health, the lives, and the morals of perhaps thoufands of your fellow-creatures will be intrufted to your care; confequently, and moft affuredly, you will become accountable to the Author of thofe myfteries for the ufe you make of them.



LECTURE III.

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LECTURE III.

I HAVE endeavoured to introduce to your acquaintance the neceffary Means, or Tools, with which you are to work; and now come to an explanation of the method of employing them.

I obferved, that every vegetating Form is furrounded by an elastic atmosphere, produced from its own circulating fluids; and that the Human Body, which is a compound of feveral internal parts, fends out through its innumerable pores, the particles which conflitute the atmosphere of each part, to compose the elastic atmosphere of its form.

This curious fhield of atoms, which takes its fhape from the form it furrounds, continues to encircle the body at a limited diftance, until fpiritual influence difturbs its law, or until a total ceffation of animal exiftence deftroys its texture.

By judicious exertion, this atmospherical part of the human body may be attracted from, or diftended to, any unlimited diftance; and may be employed to penetrate any other form in nature, fo that it is capable of contraction, of diftention, and of direction.

I obferved, that all vegetating forms continually receive from the eftablished law of composition, atoms for the nutrition of their folids; and that those folids, in obedience to the law of decomposition, reject their redundant particles, to blend them with the general atmosphere of the Earth.

Those rejected Atoms from the fluid, and Emanations from the folid, parts of bodies, will demand our ftrictest intimacy; rightly understood, they will prove to be the only and the unerring criterion by which the obstructions and difeases of each part can be ascertained; and judiciously employed, they become material instruments for the removal of every difease. Those Emanations are, as the fluid Atoms, fubject to the influence of Volition, and may be forced out of their natural courfe, or attracted into the Pores of the operator.

It must be understood in the most extensive light, that the Human Body, which, in many respects, resembles a sponge, is adapted to receive such Emanations and Atmospheres as a well-instructed practitioner may propel into any part of it, and to afford them a free passage wherever he cautiously and prudently directs them.

I have endeavoured, by borrowed examples from the familiar effects of Light and Sound, to prove the exiftence of innumerable conductors in the ftrata of the Earth and of its Atmosphere, by which all fimilar parts in nature are attached to each other; and have endeavoured to fhew, that those connecting Bonds of the universe, combine with, and are regular continuations of, those fimilar conductors, diffinguished in animate Forms under the title of Nerves.

This un-numbered croud of univerfal Nerves, is equally fubject to the judicioufly-exerted influence of

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Man's fpiritual Volition; and whether we confider them atmospherically, or in their employment in animals, they will be univerfally found fubject to fpiritual control.

If we action, that is, if we flrike, any one or more of thefe conductors with the atoms which are continually deriving from our body, we affect or influence them; that affection is conveyed on to fuch parts of the body as those conductors are attached to; and the nature and degree of the impulse will be according to the nature of the Intention and the energy of the Volition.

As every part of the body, as well as of nature in general, is composed of particles; and as those particles are materially altered in their qualities by fuch incidental obstructions or difeases as may arise amongst them; it is obvious, that the rejected atoms must refemble, in their healthy or difeased qualities, such parts as they proceed from. Thence, healthy parts invariably fend forth healthy particles, and difeased parts fend off difeased atoms.

As all Emanations muft pafs through that atmosphere

which furrounds the form, before they can purfue their courfe into the general one of the Earth; it is evident, that if two porous bodies are placed within each other's atmosphere, the emanations and atmospherical atoms of each must be blended and be reciprocally received into each other's pores.

This enables us to conceive, why those who are fearful of infection fo commonly receive it: Apprehension fixes their attention on the particles which proceed from the difeased person, and by that means they attract them into their own bodies.

Though the particles which proceed from difeafed fubjects are too minute to be difcoverable by the naked eye, yet they foon become fenfible to those who receive and are difposed to keep them.

Thus we perceive difeafes are communicated through the pores of the body, without being conveyed in the form of vapour into the ftomach or lungs, as was fuppofed. The porofity of all forms being adapted to receive them as freely as quickfilver paffes through a ftrainer. This difcovery, rightly attended to, will prove of infinite confequence to mankind in general; parents will cautioufly enquire into the health of fuch nurfes as they confide their infants to, when they reflect, that in that tender age they imbibe many difeafes which they are unable to make known but by their cries, and of which they probably communicate the direful influence to futurity, taking the remains with themfelves to the grave.

Convinced of this fact, it would be difficult to perfuade a lying-in woman, or a man feverely ill, to accept of the attendance of a nurfe whofe lungs were difeafed, or limbs contracted by rheumatifm, if they were not well inftructed in the means of rejecting fuch poifonous particles as fhe may unconficioufly affect them with.

Those cautions may perhaps appear, at first fight, difcouraging to the offices of humanity fo effential to the difeased, and so flattering to the sympathifing heart. But the apprehension instantly vanishes, on reflecting that we posses by this invaluable science, the means of alleviating the sufferings of our fellow-creatures, and of repelling from ourselves the arrows which we pluck from the wounds of others. By the doctrine of Pores and Emanations, we conceive why particles of foul water evaporating from newly walhed apartments, from damp furniture, from marfhes and ftagnant waters, from decaying animals and vegetables, from frefh painted rooms, and from a variety of fuch caufes, produce difeafes, to whofe fymptoms pompous titles and terrific defcriptions are fcientifically given. Refcued from the errors of phyfic, we merely conduct the noxious atoms out of the body through the neareft outlet, and the patient is cured.

We are now prepared to confider the method of feeking for, and of removing difeafes; but as the execution of this curious procefs in a great meafure depends on clearly recollecting the Natural Hiftory of the Earth, and of its animal Productions; I once more beg leave to recal it to your attention.

RECAPITULATION.

ON looking back at the picture, a Globe appears changing its Solid State into that of Action, re-Action, Heat, and Circulation.

This is rapidly fucceeded by a prodigious number of Atoms, attracting each other into circular currents, and branching out quite round and through the entire Globe in every direction.

Scarcely has the eye indulged in this curious procefs, before it difcovers numberlefs Atoms getting together into fmall heaps, and moulding themfelves into Forms of various fhapes and fizes, all which are penetrated by, or ftrung as it were on, the circular currents.

Attentively confidering those warty appearances, we foon perceive them furrounded by what was, before, an invisible part of themselves, collected from their Form and shaped like their figure. From this vapour of Atoms we again perceive particles detaching and continually flying upwards into the general space. This furrounding fhadow, as well as the particles which are detached from it, appear at first fight to be perfectly fimple, and composed of Atoms of one kind only; but on a closer investigation, it changes its asset, and shews Atoms of various kinds and of different colours.

The eye of critical observance becomes too ftrongly attached to this new phenomenon to pass it hastily over, and new lights shine forth to gratify the pursuit.

Clouds of fluid Atoms, varying in their colour, fhape, and fize, according to the flate of their refpective fources, rufh forth from each internal part, and confpire to render the furrounding fhade as heterogenial in its appearance as it is in its quality.

Thefe are fucceeded by a fecond clafs of Atoms, as little homogenial as the former : they fly off from each uncirculating part of the form, and burfting through its pores, penetrate the furrounding fhade, and lofe themfelves in the general medium.

Scarcely has the complex picture attained this flate

of perfection, before fome of its objects begin to moulder into duft. Cohefion's attractive bonds diffolve. The curious Form breaks down. The feparating Atoms difperfe to join the general mafs, and leave the unencumbered ftrings ready to receive and penetrate the next fucceffion of accumulated heaps of particles.

Thus Action heats the General Atoms into circulating Forms;

Composition and Emanations furround them with an Atmosphere;

Univerfal Bonds attach them to each other;

Obftruction deftroys their Regularity;

And Decomposition fcatters the Atoms to their parental Earth.

PRACTICAL DIRECTIONS.

HAVING confidered the mode effablished by the great Creating Hand, for the organization of Matter, and the uniformity of those laws by which it is governed: we are to explain the means by which Matter may be rendered inftrumental in removing such impediments as occasionally arise in every organized Form.

This is divided into two Proceffes.

The First confists in difcovering the Nature, Seat, and Confequences of the Derangement.

The Second, in removing those impediments, and reinstating the laws in the execution of their allotted purposes.

N

The first Process is

Examination ; And the fecond we call Treatment.

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EXAMINATION.

BY Examination is meant, the method of receiving fuch Imprefisions from one Form to another, as may enable it with the greatest accuracy to determine the fituation, nature, and extent of its Derangements.

To receive this information, recourfe must be had to the Atoms which proceed from the examined Form.

Those particles of Matter are fo immediately fubject to the influence of combined, fpiritual, Volition, that the eftablished fystem by which they are mixed with the universal medium, gives way during our exertion, and permits both Solids and Fluids to follow the course which we preferibe for them.

All atmospherical and emanating Atoms preferve the Type, or Nature, of the Parts from which they proceed, as long as they continue unblended with the general Atmosphere of the Earth; but from that time they become altered in their qualities, according to the Impreffions they receive, and the Atoms with which they mix. But their Type continues unaltered whilft we exert our influence over them; fo that whatever may be the direction or medium through which we propel them, they remain unalterably the fame, and continue to be paffive and unchanged either by diffance, direction, or contact, until we withdraw that influence, and difcharge them from our fervice.

It is neceffary to recollect, that those Atoms were portions of the very Parts from whence they were rejected, and confequently, that they are exactly of the fame nature of those Parts.

Now, as healthy and difeafed Atoms differ in their fhape and colour, and differently influence the Nerves with which they come in contact; the Imprefions produced on fuch nerves as are permitted to receive them, will vary according to the nature of their deviation from health, or the degree of their difeafe.

The Atoms which conflitute the Atmosphere of the Form, indicate the flate of the Fluids; and

The Emanations declare that of the Solids.

Thus, those emanating Particles are the immediate instruments for the conveyance of Impressions, and may be attracted, repelled, or directed, by the combined Power of vigorously and unremittingly exerted Attention, Intention, and Volition.

To judge of the flate of the Part from whence thefe Atoms proceed, they muft be attracted to fome part of the Examiner's Body, and muft ftrike his Nerves. Hence the procefs is called an Examination, and the effect produced on the Examiner, we name, Receiving Impreflions, or Senfations from the Patient.

From inattention to the meaning of the expression, the process has unfortunately been fometimes called, "Taking the Perfon's Senfations;" by which food has been afforded for Ridicule: this could not have happened, had it been recollected, that we do not by our Examination deprive the perfon of his Senfations, but receive in our own perfons fuch Impressions as his difeafed particles communicate to us.

As the most steady and fixed Attention is necessary to attract the Atoms, fo the least Inattention will not only difturb, but totally overturn the Examination, and the Impreffions will be either totally loft, or received in fo confused a manner, as to render it impossible to acquire any just idea of what is fo very material. Thus, the want of Attention will either produce false Impressions, lead the Examiner aftray, or totally pervert the intended purpose.

Every fubftance in Nature will afford fome Imprefion to that part of his Body which the experienced Examiner oppofes to receive it : but the Hands, and efpecially the Fingers, are those which for greater convenience we generally prefer.

The roots of the Nails moft commonly announce the first Impressions, because the cuticle is thinness in that part, and the pungent Emanations more readily arrive at the delicate nerves. A Cut, or a Sore, for the same reason, will somess the Impression.

Those whose nervous fystems are delicate, or diseased, or who are, what medical language calls, Irritable, are in general foonest and most affected by such Emanations. As the conflituent Atoms of each difeafed Part become altered in their natures; and as difeafes change according to their different flages and to their productive caufes, fo the Atoms which derive from them in their different flages are diffimilar in their qualities, and in the effects they produce on the Examiner.

By undiffurbed Perfeverance, clofe Attention to the received Impreffions, and by ferious reflection and comparifon of thefe Impreffions with each other, we gradually acquire the method of judging of the nature of the difeafe; and by following the progrefs it has made in the patient's body, we are led on to its utmoft extent.

The Examination fhould be carefully made, not only by attending to each particular part of the body, but by dividing and fub-dividing every part, and then reverting to the procefs obferved in its formation, and clearly afcertaining the part in which the rudiments of obftruction firft took place. This requires great attention, but is amply compenfated by an accurate knowledge of the nature and exact feat of the difeafe.

The inexpert are apt through impatience to defpair of

ever being able accurately to receive Impressions, too hastily concluding they never shall posses what they can not immediately command.

There appears a natural propenfity in human nature to refift conviction, and that propenfity is exceedingly confpicuous in the prefent inftance, in which prejudice oppofes palpable evidence. Hence the firft impreffions, though pungenlty obvious to the initiated fceptic, are generally attributed to an uneafy pofition of the hand and arm, or to fome other foreign caufe.

The removal of this obffacle in great meafure depends on the difpofition of the perfon concerned. Thofe who cannot be prevailed on to reduce the Theory to Practice, and tenacioufly doubt the poffibility of fucceeding, becaufe they can not feel Impreffions at their first effay, are very unlikely to arrive at any degree of perfection in an employment, which depends fo much on Humility, Perfeverance, and Refignation.

By frequent repetitions and fcrupulous exactness in attending to the first Impressions, they will be foon followed by others, and each will grow into accuracy. If we examine a patient for a few fucceffive days, without any curative intention, we fhall each time receive fimilar impreffions without alteration. But from the firft curative Treatment they become changed, and are never after the fame, even though we fhould defift from every curative procefs, and abandon the difeafe to itfelf. This, if proofs were neceffary, is a flrong one of the efficacy of the Science.

No part perhaps of this aftonifhing Science creates more jealoufy among fludents than their fufceptibility of fenfations. Some enjoy that privilege to a great degree of accuracy, even at the firft effay, whilft others are in purfuit of them for months. This difference is at firft conflitutional. But when the Science has produced a proper influence on the mind and morals, the Impreffions infenfibly grow into Accuracy. It fometimes happens that those who were most fusceptible, become totally deprived of that bleffing, until they approve themfelves more worthy fervants.

adamad air MODE OF EXAMINATION. Contract and another Emanations

THERE are Two general methods of receiving Impreffions, or of difpofing the Examiner to receive them.

The First is, by opposing one, or both Hands.

The Second, by opposing the entire Body to that of the Examined.

The First is that mode which should be accurately attended to by newly-initiated Students, as it affords a Catalogue of Senfations, which become a regular Standard to judge of all difeases by, and to reduce Examination to accuracy and perfection.

This Mode of Examination confifts in oppofing one or both Hands towards the Patient. The Examiner fhould fit or fland in an eafy polition, cautioully avoiding all preffure on his body or arms, left that fhould afford him an excufe for fulpecting the Impreffions to proceed from that caufe, rather than from the difeafe.

The Examiner should fix on some particular part vol. 1. 0 of the Patient's external or internal Form : then, turning the Backs of his hands, with the fingers a little bent, he must vigorously and steadily command the Emanations and Atmosphere, which derive from that part, to strike his Hands, and must closely attend to whatever Impreffions are produced on them.

It is fcarcely neceffary to fay, that the more Compofed and Attentive the Examiner is, the more accurate will be the refult of his Examination.

"The birth is, by oppoling one or both Hands.

During this procefs, he must not permit his Attention to wander from the Object; if he should, his labour is entirely lost, and he must begin anew, or relinquish his purpose.

To render the process the more fleady, the Eyes of the Examiner should be fixed on the part he attends to, with the unvaried intent of directing the Atoms which derive from it towards his Hands, which must be as ready to catch, as he is to account for the earliess Impressions. It may be naturally supposed that the Eyes of the Examiner should be open, but it is better they were shut, as all foreign objects are by that means excluded, and the porofity of the eye-lids removes the idea of impediment.

The Examiner flould never be hafty in delivering his opinion, but flould repeatedly examine the fame part, and deliver his decifion when he has found the Senfations uniformly fimilar after feveral trials.

The Imprefisions made on different Examiners by the fame difeafe, will be uniformly the fame when they become adepts.

It is effentially neceffary to render the procefs of receiving the Atoms detached from every object familiar to us. This will be effected by habitually feeking for them. For this purpofe Students fhould frequently receive the emanations from falt, fugar, water, fire, and in fhort, from every occurring fubftance; by which means they foon become expert.

As the Imprefion produced on the Examiner by fuch emanations as he attracts from difeafe, will frequently give him fome flight pain, more efpecially if he has himfelf obftructions: those who are ready to grafp at any excufe to wound the Science, may very probably hold that up to excufe themfelves, or to deter others from their duty : but thofe who venture to look beyond the furface, perceive the great advantage which muft derive to the Examiner, if he fhould be obftructed, fince thofe very emanations which caufe him pain will detach fome of his difeafe, and by frequent repetition will effectually remove the whole. Thofe who receive fuch pungent Imprefions, and are not themfelves difeafed, can not have any apprehensions, becaufe fuch emanations never create difeafe in the Operator; and all properly-inftructed perfons have it in their power to remove them from themfelves as foon as they pleafe.

If in examining a delicate, or what is called a nervous fubject, an apparent Infenfibility, or Coma, fhould come on, it will be neceffary to recollect, that there is no caufe for alarm, and that it is only a little affection of the nerves, which we have in our power at all times to remove. If the Operator appears to be confused on the occasion, Spectators will take the alarm, and fly for Medical Interference. By this means, the Operator's want of prefence of mind will difgrace both the Science and himfelf.

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It is perfectly immaterial what may be the diffance between the Examiner and the Examined. The process and the Impressions will be exactly the same, provided he calls forth in himself the requisite exertion.

As the purport of an examination is in itfelf, and in its confequences, of a very ferious nature; and as the accuracy of its performance depends on the moft tranquil reflection; we fhould difcountenance every kind of jocularity and difturbance; reflecting how far fuperior in every refpect our procefs is to that of a Medical Practitioner, employed for the fame purpofe. It would be deemed impolite and infulting to difturb any man in fo ferious an occupation, and our procefs, which is far more ferious, demands ftill more refpect.

When farther advanced in our fubject, we fhall find that the nerves of delicate habits in particular, are fubject to the leaft Imprefion. It will be neceffary to be very cautious in examining fuch conflictutions; a word or a look may produce fpafm or convultion, by which our procefs would become totally overturned.

An Examiner is naturally led to place his chair as near

that of the patient as he conveniently can, and to feat himfelf immediately opposite to him. This is frequently attended with very aukward circumftances. If the patient fhould be an enemy to, or an unbeliever in, the Science, and either fhould not feel effects after a long continuance of Treatment, or fhould critically examine the affiftant's attitudes, or perhaps gracelefs motions which his anxiety may induce; it is eafy to conceive how far fuch a fituation must tend to put him out of countenance. I therefore advife every young practitioner to recollect, that it is perfectly indifferent whether he faces his patient or not; and that direction and diftance are in every fenfe of the word immaterial, provided the Attention is properly fixed on the object ; and that he rightly and clearly underftands the human body, and the process to be purfued for examining it.

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SECOND MODE OF EXAMINATION.

In the fecond Mode of Examination, the Operator muft not feek to know where the patient is; but recollecting that all human beings are connected to each other by innumerable atmospherical nerves, and that the entire medium in which they are placed is composed of loofe atoms, he muft fix his attention on the object, as if he flood before him.

Thus fituated, the Examiner must vigorously exert his power to attract the entire atmosphere and emanations from the patient to himself.

By this means, the atoms which derive from each particular part of the Examined, run to the parts of the fame denomination in the Examiner ; and those particles which are difeased produce impressions on the fame parts in the Examiner as they do when attracted to his hand. Thus he feels in every part of his own person, whatever the patient feels in his ; only in a less degree in general, but always fufficiently, to enable him to describe the feelings of the patient, and clearly to ascertain the very fpot in which it exifts, and the confequences deriving from it.

If the Examiner's attention is carried only on one particular vifcus in the patient, that fame vifcus only will receive information in himfelf. But if it be rendered general, every part of his body will give an account of its own proceedings.

But it is to be obferved, that undifeafed parts will not convey any remarkable Impreffion to the Examiner; as nothing refults from health, but gentle, equable, foft heat.

In every examination the parts which produce Impreffions on the Examiner are to be duly confidered; the manner of their formation recollected; and the kind of Treatment they demand is to be clearly made out before any curative procefs can be commenced.

feelings of the patient, and clearly to afcertain the very

TREATMENT.

By the term Treating, is meant a procefs made use of by the Operator to create, if partially obliterated, or to encrease, if become languid, the natural action and reaction in any part of the body; and to affist Nature, by imitating and re-establishing her own laws, when she is become inadequate to the task.

The Examination being judicioufly made, and an obftruction or difeafe difcovered in fome part of the body, it is obvious that fome of the pores or veffels are ftopped up; that the fluids and general atmosphere are denied a free circulation through that part, and confequently that it is verging on, or making rapid ftrides towards, a flate of Inaction, the leading flep to complete vegetable Decomposition.

Here it becomes neceffary to recollect that the folids and fluids fend forth continually Atoms and Emanations, and that all those particles are subject to the influence of Volition.

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The prefent process is the opposite to the last; in that the Examiner attracted the atoms from the patient to himfelf; but in this he must force his atoms against the patient.

By a fleady exertion of Compound Volition, we have it in our power to propel the particles which emanate from our own body into and againft whatever part of any other form we fix our attention on, and can force them in any direction, and to any diffance.

Thus, by a continual and regular fucceffion of particles, directed vigoroufly in a rapid ftream againft thofe atoms which are ftopped in their paffage, and accumulated into a heap, we break down the impediment, pufh off thofe atoms which we detach, direct them into the circulating currents for evacuation, and refcue the fyftem from its impeded functions.

This process may, in some fort, be faid to refemble that of continuing to throw handsful of shot at a heap of sand, accumulated in a rivulet, which, as the grains of sand become separated from each other, washes them along before it; as all obftructions are not equally hard or compact, they are not all deftroyed with the fame facility, nor equally foon. A fingle look will often prove fufficient for a recent accumulation of particles, for an accidental contraction, or for a fudden diftention; whereas those of long flanding, and of a more ferious nature, demand frequent, long, and judiciouflyvaried Treatment.

The general process of Treatment, is an influence of Spirit, or Mind, over organized matter; in which process unorganized matter is the occasional inftrument. The Mind should be able to perform this work without any particular motions of the Body, or of its extremities. But inexperience, and the frequent diffurbances which occur to divert the attention, induce us to adopt fome mode of action, whose constant repetition may attach, rouse, or recall the mind to the superior may becomes languid or diverted from its employment.

Hence, we generally employ our Hands in the act of Treating, and write as it were, our various intentions on each part by the motions we make towards it; or, in fact, we trace on the difeafed part with our current of emanations, the various curative intentions of our Mind or Spirit.

By this means the diverted attention is continually recalled, and the atoms which flow through the pores of the hands and fingers, as well as through every part of the body, penetrate the patient's pores in conftant currents of particles, and arrive at, act on, and affect fuch internal and external parts, and in fuch manner and degree as the judicious Practitioner determines, whilft the general connecting bonds of atmospherical nerves, partaking alfo of the influence, contribute to fupport this falutary influence and render it irrefiftibly powerful fo long only as the affiftant perfifts in vigorous exertion.

As every part of the human body is attached to a fimilar part of the fame denomination in every other human Being by the general connecting medium, and confequently, as every form muft receive an impulfe when any one of thofe nerves is acted on; it is eafily conceiveable, why thofe who frequently treat patients and are themfelves difeafed, become imperceptibly cured. It may naturally be afked, Why this univerfal influence does not cure every difeafed perfon, at one and the fame time, fince all human forms are thus connected to each other? The anfwer is obvious; The fingle impulfe which is thus indirectly carried on the general clafs of beings, falls vaftly flort of the complex effects directly exerted on the patient by the Operator; in the laft cafe, the patient receives the combined and vigorous influence of the Operator's Attention, Intention, and Volition, over the atmosphere, emanations, and general nerves. Whereas, in the first cafe, the general nerves only receive the Impression, and re-action the affishant.

Thole who are ignorant of our Science, conclude the pain they feel on fuch occasions to be the effect of difeafe, and not an effort for cure, and employ, though unknown to themfelves, the necessary exertions to remove the falutary efforts, and thus perpetuate their own difeafe.

This univerfal bond of attachment, and the influence which is eftablished by it, appears very plainly in the Attendants of those who are admitted for cure at public Treatments: they acquire confidence in the Science by witneffing the cures and effects continually produced, and frequently find themfelves imperceptibly cured of difeafes they had not mentioned, and without being attended to directly by any Operator.

In the process of Treating, the Intention must be literally curative, and strictly executed, according to the Instructions which are appropriated to the nature of each particular part and stage of difease: the atoms which are detached by the Treatment generally announce their expulsion by some of the evacuations, or perhaps by spasmodic, convulsive, or some other affection of the nervous system.

Some of these marked effects have been unfortunately grasped at as influments for Imposition; Stupor or Coma, in particular, have been called Crifis, and have been received as proofs of the knowledge of those who accidentally produce them; whereas such effects are merely the result of pressure on the brain, which the most ignorant may at all times induce on fusceptible successful to conceive how an event took place, which in reality we fhould find it difficult to prevent in fome fubjects.

Every century has, I fuppofe, produced examples of men, who from fuch accidental production of marked effects, have industriously fet up fome Theoretical System, to account for fuch apparently miraculous phenomena. Hence the erroneous idea of Animal Magnetism, or a Universal Fluid pervading all bodies, and particularly affecting animals, as the loadstone does iron.

Thus it appears that every human Being poffeffes the power of ftriking other forms with the particles which are flying off from his own body; or, to ftate it in its proper light, we muft fay, that it is the prerogative of Spirit in man, by vigorous exertions, to propel the atoms of its own body againft and through the pores of any other form in nature. But to hazard fuch an exertion, without being properly inftructed, and aware of the confequences, is as imprudent as it would be to take a draught out of the firft bottle which prefented itfelf in an Apothecary's fhop. It muft be confeffed, that there is a bare poffibility of its not proving immediately deftructive, but I must suppose it difficult to perfuade any one to try the experiment.

No man will be hardy enough to advance, that the Almighty Wifdom annexed this fuperlative power to his creatures in vain, or to remain latent and unemployed. Indeed, the fhortnefs of the date, fince medical Practice first made its appearance in the world, would of itfelf overturn fuch an idea.

Parental Affection was the family phyfician, and the Upright Mind fupplied the neceffary dofe, until new difeafes, ufhered in by depravity, robbed the perverted Spirit of its nature, of its dependance on its Maker, and on the means which He kindly impreffed it with, for protection and for cure: thus eftranged from Virtue, Sin gave Phyfic, and Phyfic too often gave Death.

Bereft of his natural fheet-anchor, the afflicted Sufferer grafps at Medicine as a drowning man does at a ftraw; and reflection arrives too late to tell him, that if medicine could cure, its ingredient muft be violent; and if violent, deftruction of the Stomach, Nerves, and Pores, muft follow: that if any mixture could be really composed of inoffensive ingredients, it could not poffefs any virtue, and confequently must be useless and inefficacious.

As every Spectator muft ridicule the phyfician who writes a recipe, or orders bleeding and blifters for a patient, before he has enquired into the nature of his difeafe; fo, a Practitioner in this Science muft render himfelf ridiculous in the extreme, who begins to move his hands, or treats a patient, before deliberate examination or enquiry has enabled him to form in his mind the judicious procefs for cure: he muft ftand felf-condemned when he reflects, that every intentional motion muft produce an effect, and that there is no fuch thing as indifference in this Science, either in the prefcription, or in the mode of adminiftration.

The nature of the cafe being afcertained, the primary Caufe difcovered, and the judicious mode of Treatment for its removal felected, we muft combine fleady Attention and regular Intention to active Volition, and by concentrating the whole Soul on the object, we fhall force the general laws of Action and re-Action into obedience; and in a longer or fhorter time,

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according to the nature and degree of the obftruction, but more efpecially, according to the Singleness of our Heart, we shall produce the wished-for purpose.

You now form to yourfelves an idea of the neceffary means for afcertaining the feat and the nature of each occurring Difeafe, as well as the general mode by which they are to be removed.

The first of these processes I have called, Examination;

The laft I have named,

Treating.

This prepares us to confider, feparately and defcriptively, the Impreffions or Senfations, which refult from and indicate each Difeafe.

But let us once more endeavour, by Recapitulation, to fix in the mind the fubftance of what has been advanced.

RECAPITULATION.

ALL Forms fend forth Atoms.

Fluids throw off Atmospheres of atoms.

Solids throw off Emanations of atoms.

Atoms indicate the Difeafes of their Source.

Atoms are attracted and repelled by Volition.

Volition is Spirit, and prefides over atoms.

Atoms, attracted to Nerves, produce Senfations.

Nerves are Atmospherical and Animal.

Animal Nerves are the Medium of Senfation, and Inftruments of Volition.

Atmospherical Nerves are the Bonds of Forms, and the Meffengers of Impressions.

Atoms propelled against Obstruction destroy Difease. Difease is incipient Solidity and Obstruction of Atoms.

Solidity is Action deftroyed.

Obstruction destroyed is Solidity prevented, and Health re-established.

Solidity prevented is Animal Life.

All difeafes produce their own peculiar Senfations. Difeafes are Simple and Complex.

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Simple difeafe is Obstruction.

Complex difeafe is accumulated Obstruction.

Every Difeafe has its own peculiar Mode of Treatment.

Treatment is a Spiritual process. And Manugestions are the Index to Intention.

LECTURE IV.


LECTURE IV.

I Endeavoured in our laft converfation to lead you into the method of examining a patient, or to afcertain the feat of difeafe in the human Body.

Our next object is to diffinguifh the nature of the difcovered derangement, and to point out the means which are to be exerted for its removal.

It is neceffary to repeat, that in every fubject the nerves are the medium of fenfibility, but they are not equally fufceptible of impreffions in every fubject; in fome they are ftrong and elaftic, in others they are weak and lax.

It is impoffible for the nervous fyftem to continue unaffected when the body labours under difeafe of any kind: but when difeafe arifes in a fubject whofe nerves are in-elaftic, the fymptoms are aggravated, and the effect ftrongly marked.

Every nerve has a tendency to recover its natural ftate; but when relaxed beyond the power of re-inftating itfelf, it is declared to have loft its tone, or contractile power; in which cafe it neither re-acts nor refifts the formation of obftruction.

Nerves in general are alfo fubject to the oppofite extreme, and the nerves fo affected recoil or curl up, and the mufcles and extremities to which they are connected are irregularly pulled out of their natural attitudes, taking the name of Spafm, and a ftill greater degree of contraction receives the title of Convulfion.

When it is our object to relieve or remove fuch effects, we must recollect that the pores are immediate avenues to every part of the Body, and that no internal part is defititute of nerves.

The Operator's own emanations, when duly influenced, become, for the Operator, invifible fingers, which penetrate the pores, and may be truly confidered as the natural and only ingredients which are or can be adapted to the removal of nervous, or of any other affections of the body.

By placing thefe invifible fingers, or ftreams of atoms, as if they were fingers, on the contracted and curled-up nerves, and by ftriping down, or laying fmooth their irritated inequalities, the fpafms or convultions difappear.

And by actioning and fupporting the relaxed diftended nerves, they become ftimulated into contraction, and are fupported up to tone.

But it muft not be forgotten, that those operations are not to be performed at random, as an injudicious administration of the exertion would induce a transit from one extreme to the other: relaxation actioned into curling, degenerates into fpafm or convulsion; and convulsive curling over-diftended, finks into fainting relaxation.

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Practice, attention, and close observance of inftructions will foon enable the proficient thus critically to raife, or lower the spring of animal life.

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PATHOLOGY.

THE neceffity for clearly afcertaining the nature and feat of the difeafe, before we attempt to operate, can not be too ftrongly infifted on: inattention to this effential caution will lead the unwary practitioner into the unwarrantable error of attacking fymptoms for caufes, and difgracing the Science by leaving the root continually to throw up fresh branches, until it is completely eradicated.

The Schools of Phyfic lay confiderable ftrefs on Pathology, or certain appearances in the patient, by which they fuppofe the nature, the ftage, and the refult of each Difeafe may be pointed out. Those criterions are to be fought after in the Eyes, the Nose, the Skin, the Tongue, the Pulse, and the Gestures.

That those particular deviations from the patient's natural appearance, during health, do appear frequently, is most true; but the major part of them are fallacious and inconclusive, because they are often produced by opposite causes. For example : Fear, Grief, Anxiety. Cold. Putrid, or infectious Matter. Undigefted Food in the Stomach. Faces in the Inteftines. Change of Climate, or of Cuftoms. Rheumatifm. Gravel, Stone. Flatulence ; and feveral other caufes, Will produce the following fymptoms : Langour, Wearinefs, Weaknefs.

Infenfibility of the Extremities. Cold and Trembling; Pain in the Back. Shuddering and Horror; Palenefs, Thirft. Dry foul Tongue; Coftivenefs, or Purging. Turbid Urine. Small or ftrong Pulfe, fometimes intermitting. Pain in the Limbs, Joints, and Forehead. Oppreffion, Sinking. Lofs of Appetite.

Naufea, and fometimes Vomiting.

Now, as Bleeding, Evacuants, and the other medical

Weapons can not with equal propriety be made use of indifcriminately for such a number of different and opposite causes producing similar effects; supposing even for a moment that any of them were applicable; how hazardous must it be for the life or constitution of the patient, to administer any, until the real cause of the symptoms can be to a certainty afcertained, and that such information can not result from any observance of the fymptoms, must, I flatter myself, admit of no ambiguity.

The Eyes and Countenance not unfrequently difcover very confiderable alteration from a very flight derangement; and yet, at other times and in other fubjects, no change from their natural flate appears, even from very ferious difeafe.

The Tongue becomes dry, parched, dark, red, clammy, or ulcerated, according to the flate of the flomach, lungs, trachea, or œfophagus; but flill we are left in the dark, until we detect the caufe, perhaps in the kidneys, the mcfentery, the liver, or perhaps trace it to worms, fcrophula, wind, or fome fuch remote caufe.

The furface of the body affords us as little certainty

to judge from, as it takes its roughnefs, clammynefs, heat, or cold, from almost every derangement of the habit, or of the circulations.

But the Pulfe proves, of all others, the leaft to be relied on: all its variations, from ftrength and regularity, depend on fuch impreffions as the nerves may receive from innumerable caufes, and communicate them to the heart and arteries: joy, forrow, flatulence, and all the paffions, fo powerfully influence this fenfible part of the body, as to induce from time to time, in rapid fucceffion, every poffible alteration; and yet, at other times, the nerves are flimulated into contraction, and the mufcles and limbs into the moft alarming agitations, without accelerating or retarding the pulfation of the Arteries, even to one fingle flroke in a minute.

Hence we reject every fuppofed affiftance, held out by medical rules for the difcovery of difeafe, and difentangling ourfelves from the clofe fpun web of confusion, we cultivate the real and unerring means of diffinguifhing the caufes of difeafe from the numberles fymptoms they fo irregularly produce.

SENSATIONS.

I endeavoured in a former Difcourfe to defcribe, in general terms, the doctrine of Senfations, and obferved, that the Operator is to feel in his own perfon fuch impreffions as the Patient's difeafed emanations produce by flriking against his nerves. Our prefent bufines is to class those impreffions.

Senfations are to be divided into two claffes.

Those of the first class derive their emanations from the difease itself.

Those of the second class, derive them from the parts which furround the difease.

Those impressions which derive from the difease itself are numerous, and vary according to the nature and flage of the obstruction.

The imprefions which derive from parts furrounding the difeafe, vary alfo according to the effect which the difeafe may produce in them, fo as, for a time, to be fymptoms only, but converting by degrees into difeafe. We have an example of this in the cafe of Stone formed in the Kidneys, the urinary Bladder, and in feveral other parts of the body. The Stone is the original difeafe, and may accumulate to a confiderable fize, before fome furrounding parts become either inflamed or excoriated.

All emanations attracted to, or propelled against any nerves, must produce fome impression, and that impresfion will be according to the nature of the emanations which produce it; and as all emanations refemble the parts from whence they proceed, being in reality the very component atoms of that part, it is evident that the impressions they produce must be such as the part itself is at that time labouring under.

If the examined part is in health, fo will the emanations which derive from it, and they will carry healthy imprefions on the nerves of the Examiner; that is, they will communicate fuch a gentle, natural, uniform heat, as those who are in perfect health feel when they touch each other. But if the examined part should be painful; that is, if the diseafed atoms of that part give pain to its own nerves, fo it will to the nerves of the Examiner.

If inflammation has produced exceffive heat, or inactive obftruction has reduced the part to cold; if excoriation or ulcer has deftroyed the covering, and exposed the tender extremities of the nervous fystem to painful contact of the emanating particles; or, if a hard, infensible crust deprives them of fensibility, fimilar imprefions will be communicated to the nerves of the Examiner.

But to afcertain the nature of any difeafe, or the exact fituation of any obftruction, it is indifpenfably neceffary to be perfectly acquainted with the imprefisions which each particular difeafe produces.

This I fhall endeavour to explain.

off its contents a Bate of fireftion off any kind, whether periodicate on transformed filipeth (thole atoms to the page outd the adhe flue of a function of them to the which first became obligaded forms is mate of too great fire for the general conductors to admit its circulation. **a**

STONE AND GRAVEL.

Our first object is Stone.

By Stone is underftood, the accumulation of particles of fand adhering to each other by a glutinous fubftance, and forming a mafs of an irregular figure and an indeterminate fize.

If particles of fand, fo attached, form feveral fmall heaps, we call it Gravel.

But when they form one or more large maffes, they take the name of Stone.

Stone, or 'Gravel, may be formed in any part of the fyftem, becaufe particles of fand are at all times taken into the body, and are wafhed on by the circulating fluids, until they find their way out of the form by fome of its outlets. But obftruction of any kind, whether permanent or transitory, fubjects those atoms to ftoppage; and the adhesion of a fucceffion of them to that which first became obftructed, forms a mass of too great fize for the general conductors to admit its circulation. The most frequent feats of fuch accumulations, are the Kidneys, the Ureters, and the Gall and Urinary-Bladders.

When Stone is formed, it is an extraneous or foreign fubftance, engendered in that part of the body, but it does not conflitute any part of the Body: it is deflitute of action and of circulation, confequently it has no innate heat, but continually emanates atoms from its fubftance, which atoms pafs out through the pores of the body and through its general atmosphere.

Those emanations, when attracted to the Examiner, must affect and hurt fuch nerves as they strike against, and that affection duly attended to and confidered, proves the criterion by which the existence of Stone in that part of the body may be afcertained.

SENSATION PRODUCED FROM STONE.

The imprefiions produced by Stone on the hand and fingers of the Examiner will be

Heavinefs, Indolence, and Cold : And thefe impreffions are uniformly the fame, over the entire extent of the Stone, from centre to circumference in every direction.

But when we have paffed the bounds of the Stone, the imprefiions immediately alter, becaufe we no longer receive emanations from the Stone, but from the parts which furround or contain it.

Suppose the Stone to be fituated in the urinary bladder; when we get beyond the bounds of the Stone, we receive emanations from the Bladder, and the impreffions must then be according to the healthy or difeafed flate of that vifcus.

If the Stone has not caufed inflammation, or any other morbid affection in the bladder, we must receive the impressions of health; which are,

An Equable, Soft, Gentle, Natural,

But if the irritating furface of the Stone has induced Inflammation,

Pus, or Matter,

Scirrhus, or

Mortification ;

the impreffions must be fuch as those different stages communicate.

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CURE OF STONE.

To remove the heap of fand, thus accumulated into Stone, it muft be again reduced to fand, or to very fine gravel. The connecting bond, which, during health, had been one of the natural humours of the body, muft be again attenuated by mixing its thick and gummy atoms with other more fluid ones of the fame nature, and the flone muft then be crufhed into powder.

This operation calls forth a recollection, and an exertion of the practical rules, which I have endeavoured to explain; and comprehends, by its complexity, feveral of the different modes of Action or Treatment.

In the first place, the rules for examination must have been judiciously exerted to afcertain the fituation and fize of the Stone, and to judge of the injuries which the furrounding parts may have fushained from it.

In the fecond place, our invisible Power must be applied to the juices which circulate in the vicinity of the Stone: they must be conducted to the Stone and immediately applied to its furface, fo that the Stone muft be foaked in that fluid for the purpofe of diffolving the gum which flicks the particles of fand to each other.

If the hands are employed in this procefs, the mind muft conceive, that the ftreams of atoms which continually rufh forth from the fingers, are continued on, and lengthened out into, long invifible fingers, which become continuations of our vifible ones; and which, being composed of minute particles, are perfectly adapted to pass through the pores of another form, and to be applied as we should our visible fingers to the very part on which it is intended to act.

The third procefs, is Action, by ftriking those very emanating particles that conflitute that invisible part of our form, which it is intended to employ, whether it be the Hand, the Eye, or any other part. By ftriking them, I fay, forcibly, and in conflant and rapid fucceffion against the Stone, the particles of fand, which, by steeping, are rendered less tenacious to each other, detach, and falling again into dust, are taken up and washed out of the body by the natural evacuation. This cafe of Stone, rightly underflood, may be confidered as a material affiftant to the general means of Treating and of Inveftigating feveral other obftructions.

Let it be an adopted general rule, to reduce mentally every object and effect we meet with into its original fimple flate, and not content ourfelves with the mere idea or name, which habit has accuftomed us to annex to words or names.

When, for example, the object of our attention is Water, Fire, Vapour, Smoke, Light, Sound, Wood, Glafs, or any other object, we muft lofe fight of its name and follow Water to its component atoms; we fhall then no longer confider water as a fluid, but as a number of particles, attracted towards each other; not forming a body of cohefion, but continuing to be detached, yet fo nearly approached to each other, that human unimproved vision is unable to draw the line of feparation.

We fhall then confider Fire to be composed of the conflituent particles of the burning fubftance, feparated from each other by the intrufion of other particles, and ftimulated by the excels of action and re-action, into exceffive heat and decomposition.

BURNS. BURNS.

This will enable us clearly to comprehend, why any part approached to this burning and decomposing fubftance, becomes painfully affected, we prefently perceive that the heated emanations fly from the decomposing fubftance into our pores, and action the nerves, producing a painful fenfation; the irritated parts detach fome of their circulating fluids to wash off the offending matter; if it fucceeds, the cause being removed, the effects disappear; but if not, the external or fcarf fkin is distended into a bladder or blister.

The fame obfervations hold good with refpect to the effects produced by boiling fluids, if their particles get through the pores, the effects and the confequences are fimilar to those produced by burning.

Thus, Burning and Scalding, appear to be fimilar in their effects, though arifing from diffimilar caufes; one from the admiffion of atoms in a flate of ignition, and the other from the heated particles of water and air.

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The imprefion afforded to the Examiner from Burns and Scalds will be according to the nature of the difeafe, and to the length of time elapfed fince its occurrence.

Immediately after Burning or Scalding, and before inflammation is fet up, the veffels of the part are contracted, and benumbed, and circulation is obstructed.

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SENSATION FROM BURNS AND SCALDS.

The imprefiions produced on the Examiner from the entire extent of the benumbed part, will be

> Heavy, Dull, Pricking.

But beyond the limits of the Burn, will be found a

Natural, Equable, Gentle,

The fluids in circulation foon endeavour to force open the obftructed paffages, and the opposition caufes inflammation round the circumference of the Burn.

When it is arrived at this ftage, the fenfation will be Great Heat, and Sharp Pricking, But Indolent Numbnefs from the centre.

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CURE OF BURNS AND SCALDS.

To cure Burns or Scalds in their first stage, the atoms which were received through the pores in a heated state, must be forced out again.

Circulation must be re-established in the contracted veffels under the Cuticle.

The obstructed blood must be treated back to its circulation.

Fluid must be brought to the contracted cuticle, and its pores must be opened.

In the fecond ftage, and have a state to be and the

When a quantity of fluid has been fent to the burned part to wafh off the caufe, and has fwelled out the cuticle into a bladder, the pores of the cuticle muft be forced open, the noxious atoms forced out, and then the water becomes ufelefs. To encourage the abforption of this now ufelefs fluid, action the veffels under the cuticle. In all recent cafes, the fuccefs attendant on judicious and energetic Treatment, is rapid beyond fanguine expectation.

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HEAD-ACHES.

Our attention falls next on Pain in the Head.

Under the title of Head-Ache, we fhall be led to feveral Effects, which derive from one and the fame fource.

The Forehead,	The Pole,
The Temples,	The Neck,
The Scalp,	The Face,

are all liable, more efpecially in relaxed habits, to frequent pain.

Extraneous particles mix with those of the general atmosphere, and pass with it through the pores of the Head, as well as through all the other pores of the Body; and when stopped in their passage through and out of the Form, which will happen either from their fize or quality; when thus stopped, I fay, they will create pain in those nerves which they unavoidably irritate.

We shall find, when we come to confider this subject

more minutely, in the Second Part of the Courfe of Lectures, that it comes under the immediate head of Rheumatifm. The imprefiions produced by Rheumatic Head-Ache are

Pricking, Numbnefs, Creeping.

This Creeping, or vermicular motion, is to be carefully attended to, as it will appear to be effential clearly to diffinguish it from another of the fame kind, but more complex.

Thefe Senfations are fometimes accompanied with Heat, and at other times with Cold, according to the general health and ftrength.

If the patient is full, ftrong, and healthy, the Examiner will receive

Heat,

in confequence of the inflammation fet up in the obftructed part. But if the patient is of a lax, loofe, habit, the parts, though pained, will ftill continue indolent, and the fenfation to the Examiner will be that of

Cold.

This defcription of Rheumatic Head-Ache holds good, as we fhall hereafter find, for pain deriving from the fame caufe in other parts of the body, but will require a different intention of Treatment, according to its fituation.

Heat, and an other, tunce with Cold, necording to the

CURE OF RHEUMATIC HEAD-ACHE.

To cure this kind of Head-Ache, the Scalp, or covering of the fkull, muft be vigoroufly treated outwards, by placing the invifible hand on the bare fkull, under the fcalp, and with the back of the hand upwards, forcing all the obftructed particles outwards through the pores, and burfting open all those which may be flut up.

Or by a lefs general exertion the extraneous particles may be fought for, and turned out.

The fame mode of Treatment holds good for the removal of obftructed particles from the Face, and the impreffions produced by them are fimilar to those derived from the fcalp.

But when wind, or extraneous particles are obftructed and deeply feated in the Pole, in the Throat, in the Mouth, or in the Glands, the mode of Treatment muft be judicioufly adapted to the nature of the cafe.

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Particles obstructed in the Face, that is, about the Eyelids, Temples, Nofe, Cheeks, or Chin, must be conducted outwards, and the part must be braced.

When confined in the Gums, the Palate, the Tongue, the infide of the Cheeks, they must be treated into the mouth.

Pains in the Teeth, when the tooth is not carious, and the nerve exposed, are to be confidered as Rheumatifm; the extraneous atoms are to be conducted through the tooth, from its fubftance and periofteum, or membranous covering, into the mouth; and then, the tooth, the membrane, its nerve, and blood-veffels, are to be gently braced.

This leads us to obftructed particles in the Neck, Pole, and Glands of the Throat; which we fhall endeavour to purfue in our next conversation. LECTURE V.

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When confined in the Control, the Edine, the Poinson,



LECTURE V.

IN our last difcourse we took a curfory view of fuch flight obstructions as occasionally take place in the Face : we are now to pursue this subject further.

The Pole and Neck are, at all times, fubject to obftructed particles, which fhould be attended to and thruft out as foon as poffible. If the atoms are flopped near the external furface, they fhould be thruft outwards: but if they have been obftructed nearer to the mouth, or to the trachea, or œfophagus, they muft be treated inwards to thofe cavities.

But the Glands of the Neck, and particularly those large ones in the Throat, are the most troublefome, and in many fubjects, the most frequently obstructed.

DISEASED TONSILS.

The Tonfil Glands, which are peculiarly liable to obftruction, require fome attention.

When particles of wind, which fhould pafs freely through, are ftopped in these glands, their pores become closed; they fwell to confiderable fizes; they inflame; matter is formed in them; and an ulcer takes place.

In the first stage, when obstructions and uneafiness only have arisen, the cure is speedily effected by bursting open the pores inwards, and then bracing up the distended part.

In the fecond ftage, when Inflammation is fet up, but no Abfcefs or Ulcer as yet produced, the pores must in the fame manner be opened, and the offending particles treated inwards: the stagnant blood must be pushed on to circulation, and a free passage produced for the general atmosphere. The confequence will be, a fecretion of thin fluid, which will accumulate in the mouth, and the complaint will foon difappear. In this ftage of the obftruction, the part muft be braced with great caution and gentlenefs, left the confined blood fhould not acquire its freedom of circulation: fermentation would then arife, and Matter would be the confequence.

In the third ftage, when fermentation has produced Pus, and an Abfcefs is actually formed, the Matter must be treated inwards, and the remaining part of the gland and integuments melted down as rapidly as possible, that it may burst into an Ulcer; that the pus may be evacuated; and that abforption may be as much as possible prevented.

In the fourth ftage, when the abfcefs is broken, and an ulcer produced, the engendered pus muft be conducted from the circumference to the face of the ulcer, and evacuated, that none of the contaminated particles may fpread from the ulcer to the neighbouring parts and produce fresh difease.

The furface of the ulcer must be actioned that

re-action may be fet up and heat arife. This procefs will invigorate the granulating, or fprouting, flefh under the fore, and will enable it to throw off the fecretion.

In the fifth ftage, we have the dreadful appearance of Mortification, which chiefly depends on an aptitude in the confliction, or depravity in the juices, ready to receive Putrifaction and to become putrid.

HEAD-ACHE.

This leads us back to the fubject of Head-Ache.

Pain will arife in the Head from accidental preffure on the nerves of that part; this, while it is recent, is local, or confined to that part only. The nerves in this cafe, curl up and contract, particularly at the Temples.

This kind of Head-Ache gives way immediately by taking off the contraction, which is rarely more than the work of a few minutes.

But a much more ferious Head-Ache arifes from difeafes, and from habitual injuries done to the flomach by undigefted food; by irritating and fpirituous liquors; by wind in its coats; and by a long•lift of natural and accidental caufes, which, by affecting the nerves of the flomach, are prefently communicated to the Head.

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It would prove a fruitlefs tafk, to treat the Head for the removal of this pain, which is but a fymptom, and not a difeafe. We fhould, by each Treatment, remove or decreafe the pain; but whilft the caufe continues, the Head-Ache, which is its fymptom, muft be for ever re-produced.

Therefore, the whole of the Attention and Treatment must be directed to the Stomach, which once freed from its derangement, the affection of the Head prefently fubfides.

For this purpofe, the internal cavity and coat of the ftomach must be cleared of flime; the invisible fingers must fcrape, as it were, all the internal furface; and we must carefully attend to fuch evacuations as nature may dictate.

If a ftrong inclination to vomit fhould come on, direct the fluff through the cardia, or left orifice; through which aliment paffes into the ftomach: but if a contrary evacuation fhould be indicated, either by the Operator's impreffions, or by the Patient's own feelings, it must be affisted and not counteracted. The Senfations produced by this ropy humour in the ftomach, are

A Thick, Gummy,

feel on the fingers; and when they are gently moved, they meet with a flight degree of refiftance: if attempted to be bent, the fkin feels Stiff, and a little Rigid.

To judge of the depth of the flimy humour in the. ftomach, the fingers muft be perpendicularly dipped in it to the bottom of the ftomach; the confequence will be, the impreffion of a

A Circular Line,

as if a ftring furrounded each finger, marking the depth to which they had funk in the ftuff.

From that Line downwards to the fingers'-ends, they feel Stiff and Rigid: but above these bounds, the fingers and hand have their natural feel.

Thus we perceive, that a Pain in the Head is not a fufficient indication to guide our operations, but that the caufe must be difcovered; and that then only we are prepared to afford affiftance.

RHEUMATISM.

Noxious and damp atoms, when obftructed in their paffage through the body, or its extremities, produce fimilar Rheumatic Pains to those defcribed in the Head and Neck; and are to be brought out in the fame manner.

It frequently happens, in lax habits particularly, that the Patient feels the particles of difeafe, as the Practitioner conducts them, creeping through the cellular membrane, fubmiffive to his influence.

Hence a Caution for Practitioners in general, not to hold the hand of a rheumatic Patient's difeafed arm; nor to permit Patients, whilft under Treatment, to place the difeafed hand, or limb, on the other hand, on the knee, or on any part of the body; becaufe the particles of difeafe will be conducted by the Treatment out of the pores of the Patient, and into thofe of any other perfon or limb.

It is also neceffary to observe, that if fuch accident

fhould incautioufly happen, the difeafed atoms fhould be immediately removed, efpecially if pain is felt, left obstruction should be produced.

In lax, obftructed fubjects, fevere pain is frequently produced by Wind fuddenly removing from one part of the cellular membrane to another perhaps very diftant part of the body. In fuch fubjects, Practitioners, by Treatment, diflodge and conduct the Wind as they pleafe.

Wind thus pent up in the cellular membrane, announces itself to the Examiner by a

Creeping.

This Imprefion will be produced from Wind confined in any part of the body or extremities, and is in itfelf a perfectly fimple fenfation, imitating on the Examiner, the effect which it produces in the Patient, by creeping about from part to part, within the bounds of the obftruction.

It is neceffary however, for Practitioners to make this fenfation clearly out, left it fhould be miftaken for another Impreffion which is not fimple, but compound, and which, in the creeping part, refembles this :----

When obftructed Wind has acted on a part which is already difeafed, or when it has irritated any part to Inflammation, the Examiner will find the fenfation no longer fimple, but complicated with that which proceeds from Inflammation, that is, with

by Treatment, diflodge a; tabHaduft the Wind as they

which will be more or lefs intenfe, according to the degree of the Inflammation. The action of Wind on the tender nerves of the inflamed part will at the fame time produce

Pricking.

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formather lingrafion which is not fample, but com-

INFLAMMATION.

The Examiner is to receive from a part which is become inflamed and actioned by confined Wind, a complex imprefiion; that is,

Creeping.and a state of the sta

The Heat derives from the Inflammation.

The Pricking, from the Wind acting against the obstructed pores.

The Creeping, from the motion of the Wind from one part to another.

The intenfe Heat is chiefly felt under the Nails.

When Inflammation has continued for fome time, if the efforts of Nature have not been able to fhake off the caufe, the fluids confined in the inflamed part ferment, and produce what is called Matter, or Pus.

NOIT PUS. A.TINI

Where Pus is confined, the affected part takes the name of an Abfcefs.

This Matter, or Pus, when examined judicioufly, communicates to the hand of the Examiner fuch

Softnefs, ignored

as we fhould expect from actually dipping the hand in fuch fluff out of the body; but it is, at the fame time, combined with Pricking, fo that the fenfation from Pus becomes

. Softnefs, and many of the self-

The fenfe of Pricking arifes from the motion or action which the wind, contained in the Pus, makes by its endeavours to efcape.

ABSCESS.

Every Abfcefs is a collection of Matter, and every collection of Pus naturally tends to break its way, and efcape through the neareft furface.

Matter, like every thing elfe in nature, is composed of atoms, and we have it in our power to give it what direction we pleafe.

Every Abfcefs requires to be treated according to the part in which it is fituated.

If in the Glands of the Throat, it must be treated into the Mouth.

If in the Glands of the Neck, it must be forced outwards.

If in the Liver, it must be directed through the Hepatic Duct into the Duodenum.

If between the Dura and Pia Mater in the Skull, it must be brought through the Ears, or Nofe, according to its fituation.

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If in the Kidney, it must be conveyed to its Pelvis or Refervoir, and thence by the Ureter to the Bladder.

In fhort, Matter muft, as all humors, be conveyed through the nearest natural passage formed for that purpose.

And a general Rule may be laid down, never to encourage or permit an Abfcefs to burft into the cavity of the Cheft, of the Belly, or of the Pelvis.

If bowers the Dues soft Fire Mater in the Skuth, it

LUNGS.

The Lungs are fubject to feveral different kinds of obftruction: but that which falls under our prefent obfervance, is the most frequent, and often the forerunner of ferious and fatal confequences.

From change of weather, from night, and damp air, and from a number of caufes, a fecretion from the Lungs becomes hard and tough, or the air-veffels, by contracting, deny it a paffage. In this cafe, the Examiner will feel his fingers as if dough, or unbaked bread, had been permitted to dry on them. This I will call

Clumfy Stiffnefs.

CURE OF LUNGS.

To cure this obfiruction, the general atmosphere must be followed in its circulation through the Bronchial or Air-Pipes, beginning at the Trachea, or Wind-Pipe, and purfuing it downwards and backwards, and returning upwards and forwards again to the mouth, by which means Expectoration will be produced, and the obftructed stuff difengaged from the Air-Pipes.

This defcription of the Difeafe and of its mode of Cure, though far fhort of what the fubject demands, will enable the Student to begin, and prepare for what the Second Part will explain at large.

MEDIASTINUM.

In recent colds, as well as in cafes of too long fafting, the Mediaftinum, or front lining of the cheft, becomes fwelled into fmall bladders containing wind; from which arifes pain, and a fenfe of tightnefs or oppreffion in the act of infpiration, or drawing in air.

The imprefion to the Examiner, whilft the obftruction continues fimple, will also be fimple

but if it continues, and produces Inflammation, the fenfation becomes complex, and

Creeping, Heat, and Pricking,

Creeping:

will be found in the part.

CURE OF MEDIASTINUM.

To remove this obftruction, the pent-up wind muft be fet free, by burfting the little bladders which contain it.

It is neceffary for this purpofe, to recollect, that there are two directions in which the wind may be expelled when fet loofe; one, upwards to the mouth; and the other, downwards to the ftomach.

The fhorteft paffage is upwards to the mouth, which generally fucceeds, when carefully conducted; but cafes occur, in which it becomes neceffary to divide the procefs, and convey one half upwards, and the remainder down, to pafs into the ftomach and out at the mouth.

PLEURISY.

The general lining of the cheft is called Pleura, and an affection of that lining is named Pleurify, or, Difeafe of the Pleura. The fymptom is acute pain affecting the breath.

The fenfations which derive from this wind, whilft pure, is ftill the fame, that is,

Creeping,

and when Inflammation takes place, it receives the addition of

Heat, and

Pricking,

and fo on to the other ftages.

It is neceffary in all cafes of wind in the Mediaftinum, carefully to guard against the diflodged particles making their way from that membrane into the Pleura, elfe we remove one, to produce another painful obstruction.

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CURE OF PLEURISY.

To cure Pleurify, the pent-up wind must be treated downwards; that is, it must be directed to the Diaphraghm, and thence to the Stomach.

The pain fublides as foon as the wind begins to remove.

The pores of that part of the Pleura must then be forced open, to prevent relapse.

It is to be obferved, that the rapidity of the Cure will, in great meafure, depend on the ftage in which it is undertaken. If it is attacked before Irritation has lafted fufficiently long to induce Inflammation, the Cure will be foon effected: but if Inflammation has already taken place, it will be much more tedious and troublefome to remove.

DEAFNESS.

When the nerves which are fent off from the Brain to the Ears have loft their circulation, the branches which run from them to the Drum, or Tympanum, become thickened and infenfible, and the Patient is faid to be Deaf.

This flate of the auditory nerve the Examiner feels by a

Refiftance

of the motion of his finger against the Tympanum and Nerves, and at the fame time a degree of

Numbnefs,

leading the hand on to the bounds of the obftruction; fo that the fenfation is

Y

Refiftance, and Numbnefs.

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CURE OF DEAFNESS.

The Cure of Deafnefs is often difficult. When the obftruction is recent, it is foon removed; but when of long continuance, the circulation is not only impeded, but frequently obliterated.

When Deafnefs proceeds from wind, which is but another name for Rheumatifm, the cure depends on its removal.

The Drum of the Ear fhould, in all cafes, be actioned, and fluid brought to the nerves from the membranes which cover the Brain.

But in every cafe of Deafnefs, the caufe fhould be diligently fought after.

INTERNAL CONTRACTION.

I have already obferved, in the courfe of thefe converfations, that the nerves recoil or contract, and curl up, when, internally or externally, they meet with any irritating caufe. Such contractions announce themfelves to the Examiner by a preffure round his fingers, as if a ftring was tightly bound round them.

Best date with the CURE. The Market State Hallen

a chinese's many play and a solite

To cure fuch contractions, the invisible hand must be laid on, and must gently stripe them down.

RELAXATION.

Relaxation of the nerves is the oppofite to contraction. In one, the nerves are flortened; but in the other, they are lengthened out unnaturally, fo as to be in great meafure defitute of tone, or power of contraction.

In all cafes of relaxed habit, whether general or local, the part examined will produce in the Examiner's hands, fingers, and wrifts, a

Lengthened,

Debilitated

fenfation, by which the limb is actually weakened.

CURE.

The nerves must be supported. If the Relaxation be recent, or accidental, attend to the cause: if habitual, or constitutional, you will relieve, but not cure.

OBSTRUCTION.

I have confidered all Obftructions in a general light, and have reprefented them as primary Caufes of many fymptoms. This will more clearly appear in that part of our inftructions which is to fucceed the outlines. I mention it now, only to depict the impreffions which the Examiner is to expect from obftruction of any kind, which will be a

Cold, and yet Sharp, and Contracted

feel in the hand and fingers : if wind confined,

Creeping;

but if inflamed, Heat,

in the place of Cold; and if inflamed to a great degree, the fingers' ends and under the nails, feel as if held near a great fire.

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CONTINUED PURGING.

Continued Purging will demand great attention. It is not to be confidered as a caufe in itfelf, but as an effect, the caufe of which is diligently to be fought after.

When humors are, either by the efforts of Nature, or by our imitation and invigoration of her laws, detached from their feat of obftruction, the animal œconomy rejects them from the body by fome of the natural outlets. If the chofen outlet fhould be the inteffinal canal, Purging muft continue until the whole is evacuated.

If, by weakening Nature, or by any other means, the Purging should be reftrained before the work is accomplished, it is evident that a part of the noxious Matter remains confined, and will be abforbed, and deposited in fome, as yet, undifeased part, which it can not fail of inoculating; and the last case becomes worfe than the first, by spreading over the whole body a Difease which was local. It is therefore neceffary, in fuch cafes, to affift Nature in the expulsion, and to ftrengthen the fyftem by well-chofen and frequently-repeated nutritious food.

If the patient fhould appear to be much weakened, fupport, and gently give tone to the inteffinal canal, during the intervals of evacuation; affift the expulfion of the next, and then brace up again.

COSTIVENESS.

In fuch cafes as may be really deemed Coffive, the caufe fhould be explored, and will generally be traced to one or more of the vifcera, whofe department it is to furnifh fluid for the affiftance of digeftion and feparation, and for the encouragement of a motion in the inteffines for the expulsion of the fæces.

Hence, the Stomach, the Liver, the Spleen, the Pancreas, the Mefentery, the Kidneys, the Diaphragm, and the Inteffines, muft be all judicioufly treated, according to their refpective mode of original formation, and the eftablished law of their fecretions.

or house of man ABSORPTION.

There is a function, inherent to the animal machine, by which fuch fluids, whether they be healthy or difeafed, as are not to remain in the form, are fucked up and rejected, and by which the fluids are alfo conveyed from part to part of the body for its nutrition and affiftance: this is called Abforption.

Vigorous action, carried by our endeavours on a difeafed part, detaches fome of those fluid atoms, and Nature fets up her work of Absorption to reject them. Of this the Examiner has a very remarkable notice by the following impression:

I obferved, that obftructions gave to the hand of the Examiner a Dry, Stiff feel on the fingers: I am now to obferve, that when by continued Treatment, fome particles have been flruck off, and Abforption takes place, the Drynefs of the fingers difappears, and they become

Wet and Soft;

the moifture hangs on the ends of the fingers, and VOL. 1. Z

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continues vifibly fo until the Affiftant alters his mode of Treatment, or quits that part to attend to fome other; the moifture then difappears, and the fenfations change according to the flate of the part then attended to.

This proves a most valuable Information, as it encourages the Affistant vigorously to purfue a process which is fo rapidly leading on to cure.

OBSTRUCTED CELLS.

When parts are obftructed whofe texture is cellular, fuch as the Spleen, or the Ovariæ, and the natural fluid is flopped in its circulation; the impression deriving from that part will be a

Spinning w mullesent

in the fingers' ends, or as if fomething was twirling about in one or more of them.

CURE.

-1015

The part from whence the fenfation of Spinning proceeds, muft be ftrongly actioned; by that means the Cell will be forced open, the Fluid will circulate, and the Spinning will ceafe.

mot, and this fource from whence it derives. If it he

SCROPHULA

Is an acrid humor which makes its appearance in the glands, fometimes in the joints, and fometimes in other parts of the body.

The impreffion which this Difeafe produces on the hands and arms of the Practitioner is curious and extraordinary; the joints of the fingers, wrifts, fhoulders, and elbows,

Crack

at every motion made by the Operator. The Cracking is fometimes loud enough to be heard by fpectators.

proceeds, muß he firon, ENUS oned ; by that means

The Cure must depend on the nature of the humor, and the fource from whence it derives. If it be hereditary, it is rarely curable: if acquired, the Cure must depend on the removal of the humor from the habit.

moificunos at deale WORMS.

Worm Cafes are of two kinds.

In the first class of cases, the Worms are loofe in the Stomach or Intestines.

In the fecond, they are formed and contained in Bags, which are attached to the internal Coat of the Stomach.

In all Worm cafes, the fenfations are to the Examiner's fingers

Creeping, and Pinching.

bus you balling grand the diam had in the

the formals fireald mover he parameted to become

If the Worms are detached, by actioning them ftrongly they will be pufhed along the Inteffinal Canal, and evacuated: or, if they are fituated in the Stomach, they will be forced through the Pylorus, or

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rejected by vomiting, as their motion, when irritated by Treatment, will urge the flomach to contraction.

If the Worms are contained in bags, the cure depends on breaking or detaching the bags, which are, for the most part, caused by flime, and originate from the use of fubstances, or drugs, which decrease the action of the Stomach, and obstruct its porofity.

In Worm cafes, a Cough is generally a concomitant fymptom. This cough is not Difeafe, but is a falutary effort of Nature, fet up to detach the Slime, burft the Bags, and pufh off the Worms. Confequently it fhould be encouraged by actioning the Stomach, and detaching the Slime.

Nutritious food fhould be ftrongly infifted on, and the ftomach fhould never be permitted to become empty of folid food.

If the Worms are detached, by adhealing their brougly they will be puthed along the Inteffinal Canal, and evacuated : or, if they are fituated in the brouach, they will be forced through the Fylorus, or

BRUISES, OR CONTUSIONS.

When a part is bruifed by a fall or ftroke, many minute veffels are ruptured, and a fluid is thrown out from them. This fluid accumulates and becomes ftagnant in the bruifed part.

The fenfations arifing from this flagnant fluid, will be Heavinefs in the Hands, Numbnefs of the Fingers.

CURE.

TO BILLY TO

the pores, and re-section

The parts which immediately furround the fluid, must be strongly actioned, until they are stimulated to abforption, and the Operator's singers become damp or wet.

The entire fyftem fhould alfo be vigoroufly actioned, by which, general circulation will be quickened, and univerfal abforption encouraged.

LUXATION, OR STRAIN.

In all Strains, the parts are confiderably firetched out, and confequently relaxed, and blood-veffels are fometimes burft.

If no veffel is burft, the cafe is fimple. If a blood-veffel is burft, it is compound.

If the relaxation continues for a little time, particles of the general atmosphere pass into it through the pores, and remain stagnant for want of tone or elasticity in the fibres to push them out again: this is literally Rheumatism; fo that this case becomes a triple compound of Relaxation, Extravasation, and Rheumatism.

To this we muft add a fourth cafe, which fometimes happens, more efpecially in the fhoulder-joint; the head of the fhoulder-bone is forced out of its focket, and burfts through a membranous bag which inclofes it.

CURE OF LUXATION OR STRAIN.

Simple Luxation is cured in a few minutes, only by bracing up the relaxed part.

Compounded with Rheumatifm, it requires more time, according to the degree of the rheumatic affection.

transed, inthe milling

The procefs is that of first removing the extraneous particles, and then bracing the relaxation, and actioning the part, to produce abforption.

In all cafes it is neceffary, by manual operation, to reduce the Luxation according to the rules of Surgery; that is, to replace the bones in their natural fituations.

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ΛΑ

VOMITING.

It fometimes happens, that Vomiting or ineffectual efforts to vomit, continue obflinately to recur.

When any humor is thrown off at each effort, it is evidently a falutary process, and should not be reftrained, but affisted.

But if the retchings are ineffectual, the Examiner fhould afcertain the nature of the cafe: if flime is attached to the flomach, he flould fcrape it off.

But if it proceeds from irritation, caufed by violent emetics; by an acrid humor, caufing irregular contractions in the ftomach; by general debility; or by any fuch caufe: the nerves of the ftomach become fo irritable or impatient of the flighteft contact, that even the circulating particles of atmosphere ftimulate them into fpafm and contraction.

CURE OF VOMITING.

The invifible hands muft be laid on the internal furface of the flomach, and the whole muft be made fmooth, flretching gently out the little contractions and curlings of the delicate nerves.

As this can not be done without diffending and relaxing the flomach a little, it is neceffary to fupport and gently to contract the entire vifcus.

By this Treatment the Retching difappears entirely.

But if an acrid humor has caufed the Vomiting, it will return until that caufe is removed.

PERSPIRATION.

If the nature of the cafe fhould require Perfpiration, the body in general muft be actioned to quicken circulation, and the diaphragm in particular muft be attended to.

When, by this means, the internal atmospheres of each part are increased, the whole must be forced vigorously outwards, by laying the backs of the invisible hands against the internal surface of the cheft and belly, or thorax and abdomen.

SUSCEPTIBILITY.

Delicate conflitutions are fusceptible of the flighteft derangement, and are called Nervous, or Fanciful. But fuch fubjects will be always found to be difeafed; fo that their irritability is only a fymptom, and not the real Difeafe: the nature of the cause is frequently fuch, or the parts in general are fo relaxed, that a fufficient degree of pain is not felt by the patient to cause complaint, and the practice of physic has no certain method of judging without.

Happily, we now want no affiftance from the patient's feelings, as we are enabled by our own, to afcertain and remove the latent caufe.
CONCLUSION.

Infanity, and the Difeafes of Infants, are no longer beyond the reach of affiftance; as we want no defcription from either of their feelings, to affift our judgment by, but we trace the fymptoms of each to its caufe, and re-eftablifh Nature in her regularity and laws.

I flatter myfelf it now appears that every fpecies of internal and external medical application is not only foreign, but diametrically oppofite to our mode of practice; and that all evacuations produced by mechanical means are injudicious, and deftructive to the conflictution.

Let it be an invariable Rule, not to defiroy the patient's general firength, but to fupport him by proper food and nutritious fluids; by which means each vifcus will freely fecrete its own fluids, and the fyftem in general will perform its proper functions. I obferved in the courfe of our converfations, that confiderable affiftance is derived to those especially, who are not accustomed to the means of treating patients, from tracing their intentions by the motion of their hands or fingers: but I hope you now know, that those motions are no otherwise effential; confequently, the less violent we are in fuch graceless attitudes, the less food we shall afford to incredulous jocularity. We shall as efficaciously treat the patient with our eyes shut, and our hands either in our hats or in our pockets, or, in short, in any other position, as if we waved our hands from the patient's knees to his head. All this depends on habit, which every one may by a little exertion mould to his own choice.

Here we clofe the prefent Curative Inftructions; in which you perceive that all received theories of Difeafe are totally overturned; Symptoms, Pulfe, and all the deemed unerring Rules are rejected, and the entire voluminous Materia Medica refcued from the torture of alteration and improvement. We have, in fhort, eftablifhed a permanent Peace with the entire animal, vegetable, and mineral kingdoms, and reduced the medical library to a very fmall compafs. Thrice happy the Man, who, his tafk accomplifhed, fhall receive the laft Eternal Benediction, ceafe to emanate, and refign, unatmosphered, his useles house of Particles.

LECTURE VI.

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LECTURE VI.

WE come now to confider and account for fome of the phenomena which take place during our Curative Treatment.

When explaining the general influence which all human Beings may, even at random, or without fyftem of any kind, exert over the nerves of delicate, and frequently over those of diseased subjects, I obferved, that such influence frequently became strongly marked with spass; at other times, by partial or general convulsions; and not unfrequently by Coma.

The Ancients took notice of this influence, but, unable to difcover the caufe which produced it, were led to attribute the phenomenon to a property in the atmosphere, fimilar to that which caufes iron to attract its fimilar. Mefmer adopted this idea from Kircher, Fludd, and other Authors, and called thofe marked effects, Crifes. Some of his followers, with as little difcernment as judgment, flied another flage of this nervous affection, Somnambulifm, or, Walking in Sleep.

Thofe who are not yet familiarized to this fubject, furprized at the artificial or accidental production of Coma, conclude the perfon in that flate to be removed beyond nature, and call Coma, a Crifis or fupernatural exaltation, from which oracular anfwers are expected. This new food is grafped at with avidity by impoftors, and many eyes are defignedly clofed to deceive the Affiftant, and difgrace the Science.

Hence it is not uncommon to hear people talk of Crifes as familiarly as if they actually knew fomething of the matter, and entertain their acquaintances with the wonders of their laft Comatofe dream.

A most fcientific lafs, withing me to believe she faw my brain; as a proof of her perspicuity, refembled it to an oyster. And a medical gentleman in

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that flate conceived the infide of an old rheumatic patient to look like a mutton-pie.

The critical effects which come immediately under our curative cognizance, are the feveral evacuations and efforts fet up to diflodge and throw off offending matter.

These announce themselves under one or more of the following appearances:

Coldnefs,	Sighing,	Convultion,
Heat,	Eructation,	Expectoration,
Shaking,	Laughing,	Vomiting,
Gaping,	Crying,	Purging,
Sneezing,	Spafm,	or

Evacuations from the kidneys or pores, which taking place with our intention during Treatment, may be confidered as critical effects produced by our efforts.

These effects may, at other times, take place independently of our intentions, and are undoubtedly critical and falutary exertions of Nature set up to cure herself. Thus, Nature in one case sets up her own critical efforts to push off obstruction; and in the other, we imitate her own proceffes, and help her on to cure, when fhe is become inadequate to the tafk.

It is highly probable that, had mankind continued to live in the original flate of nature, unpampered with fuperfluous cloathing, improper food, warm rooms, fermented liquors, contaminated atmosphere, and medical evacuations, the conflitution would have continued fo vigorous as in general to free itself from every derangement; or, at least, to fland in need of very little, of even this original and natural mode of affiftance, until, at a very advanced age, fome part of the body, like the wheels of a time-piece, became regularly rubbed out, and action completely flopped.

Amongst the effects which I have enumerated, are to be placed those of Coma and of Sleep.

Coma is fimple or compound, and refembles that flupid infenfibility, which frequently arifes from injuries received in the head and brain.

Coma is Compound, when it is accompanied by any phyfical effects, or with fleep.

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But when it runs on, or is conducted through its different ftages, and receives no interruption from any of those efforts I mentioned, it is Simple.

The flate of Coma may be produced by us in all fuch fubjects as are fufceptible of it, by the exertion of fpiritually-combined Attention, Intention, and Volition.

Sufceptibility of the flate of Coma depends on a peculiar organization; or rather, that flate is prevented by obftruction of any of the neceffary organs. By confidering those parts we fhall more clearly comprehend the method of inducing that effect.

But allow me first to observe, that although it may be confonant with my engagement to teach you the means of producing fuch marked effects on your fellow creatures; yet wantonly to exert that power for the gratification of your own curiofity, or that of others, is not only culpable, but is frequently dangerous; and is fo widely foreign to the intent of this Science, that I have reason to believe it may be punished by, at least, the total privation of all power in the frequent offender. Scrophulous patients afford us a firiking example of the impropriety of producing Coma in them. A quantity of acrimonious matter is frequently deposited either between the coats of the ftomach, the diaphragm, pleura, or glands of the neck.

Judicioufly treated, this matter would be either externally evacuated, or conducted into the ftomach, to pafs off by vomiting, or by the inteftinal canal: but by the mode of Treatment which is regularly adapted to the production of the ftate of Coma, you will foon perceive, that the matter formed in the nerves, between the head and ftomach, or in the glands with which they are connected, may be carried up to the brain, where fome of this poifonous leaven will rarely fail of producing the most diffreffing and the most alarming fymptoms, if Nature fhould prove inadequate to the tafk of cafting it off, or if we negled to remove it.

Beware then of gratifying a vanity which it is your duty to eradicate: and remember, that you are called on to cure, and not to prove your power, by trifling with a fubject whofe merit you will foon learn to appreciate. How juftly fhould we hold a phyfician in contempt, who, in a mixed company, threw emetic tartar into the coffee-cups, to prove that he could produce vomiting; and yet, we overlook the impropriety of rendering a company flupid, as a proof that we can cure difeafes.

But although I thus condemn the wanton and unneceffary production of Coma, yet I with it to be underftood, that there are fome cafes in which it is not only fafe but judicious, to encourage and to purfue fuch marked effects when they involuntarily announce themfelves. Hence we are to confider the means of inducing and increasing them, as the nature of the cafe may occasionally demand.

The flate of Coma is caufed by a preffure on that part of the brain which is fituated under the coronal future, in the front of the head, and forwards over the forehead to the root of the nofe.

This preffure is to be produced by particles of air and by particles of fluid, for which application muft be made to the nerves.

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It is neceffary to premife, that the nerves contain a fluid, and that that fluid obferves a certain mode of circulation.

That all nerves are porous in every direction, and that particles of general atmosphere are continually paffing through them.

And that the nerves are capable of differiton and contraction.

The nerves to which I now allude, and which conflitute the object of our prefent attention, form a plexus or kind of network, by croffing each other innumerably, in the pit of the flomach, and thence are continued upwards, as feparate threads or flrings from the centre to the ends or orifices of the flomach, named Cardia and Pylorus..

Arrived at thefe orifices, they turn upwards, and pass through the diaphragm, and run in the lining of the cheft, called Pleura, towards the head.

When they arrive at the neck, they feparate to each fide, and fome of them get into the fkull, creep up between two membranes which cover the brain, called Dura and Pia Mater, and make their way to a fpace, or well, which is fituated in the brain, in the top of the head, immediately under the foft part in the infant fkull, and known by the title of Fontanella, Opening, or Mould.

The remainder of those nerves which do not get into the fkull, creep up on the outfide of the face, run before and behind the ears and over the temples; fome of them meet between the eyes at the root of the nose, and terminate there: but others make their way through holes in the fkull, and run on to the well, to join those which passed in at the neck.

Thus we perceive, that an immense number of nerves connect this part of the brain with the coats and cavity of the flomach: that these nerves are open at one end in the well in the brain, and at other ends in the cavity of the flomach and between its coats.

Thefe nerves have feveral departments or occupations; but those which come within the cognizance of the prefent part of our fubject are of two kinds. The first fet receive a fluid, which is feparated from the circulating blood in the coats of the flomach, convey it up, and depofit it in the fpace or well in the brain : and the fecond fet abforb a fluid which is as regularly and continually fecreting from the fluids in the brain, and depofited in the well; they bring down a part of this fluid and depofit it in the cavity of the flomach for evacuation.

It is neceffary to recollect that all Nerves are capable of being affected in their fubftance.

That the Fluid, paffing from the brain to the ftomach, may be ftopped in its paffage, and accumulated in the well.

That the quantity of the Fluid which is defined to run from the flomach to the well, may be encreafed, and that wind, or particles of air, which are continually contained in the flomach, and between its coats, may be conducted up to the fame refervoir.

When thefe Fluids are accumulated in the well, they form a preffure on that part of the brain. If that preffure is encreafed, and continued for a flort time by perfevering in the fame procefs which produced it, a flate of flupor takes place, in which the eye-lids fall, and the perfon becomes inattentive to general occurrences, and that flate takes the name of Comatofe.

The nerves, which are thus employed for the conveyance of certain quantities of air and fluids, to and from the brain, are exceedingly minute and numerous. They are fituated between, and encompaffed by, Mufcles, Membranes, and other Subflances, all which are fubject to inflammation and derangement. Hence those nerves are frequently obstructed, and fometimes totally destroyed.

If feveral of them fhould by natural malconformation, or by accident, become obftructed, the quantity of wind, and of nervous fluid carried up by our efforts to the brain, will be infufficient to induce the neceffary preffure, confequently that perfon will not be fufceptible of Coma.

Thus it appears that the aptitude to that flate muft be according to the perfon's habitual health or conformation of those parts. If the defect be a natural one, all our exertions will prove unavailing; but if the obftruction be accidental, we may expect to remove it by longer or fhorter perfeverance in the neceffary attention, according to its degree and to the time of its exiftence.

This accounts for fome fubjects falling into the flate of Coma at the first Treatment; why fome begin to shew an aptitude to it after feveral repeated efforts; and explains the cause of others' requiring perhaps a year or longer, of constant and daily Treatment, to remove the obstructions, and to allow the fluids a free passing to the Brain.

If the nerves are free and unobftructed, the perfon may be confidered as adapted to the flate of Coma; but ftill, much will depend on the Affiftant's judicious mode of conducting the fluid. If through impatience or imprudence, he fhould violently flrike his emanations againft those delicate nerves, Spafm, or Convulfion will arife, but not Coma, becaufe the irritated nerves curl up and effectually prevent the paffage of the fluid to the Brain.

It is therefore neceffary to be observed, that the

fluids are to be conducted upwards, flowly, foftly, and gently, with the greateft care, caution, and delicacy, maintaining the ground as it is gained.

Three objects are to be kept in view: one, to carry up the fluids from the flomach to the brain; another, to prevent the defcent of fluid from the brain; and a third, to render the nerves themfelves gently tight, but without curling: and the whole must be conducted as if you were stealing up, little by little, the neceffary fluids on the brain, until the effect announces itfelf.

The operation is to commence at the pit of the ftomach, and the first intention must be to separate the plexus, or heap of nerves, situated in that part, and then to follow their course at each side to Cardia and Pylorus.

The nerves must then be purfued, through the diaphragm up the pleura, and into the fkull to the Brain.

When arrived at the coronal future, the wind

muft be brought forwards, and the Dura Mater, muft at the fame time be rendered tight, preffing and contracting into a fmall compafs the fluids, air, and nerves, and bringing them to one point over the nofe, then giving the membranes and nerves a kind of twift, and hooking or rather entangling the whole on a fmall bony procefs, called Cryfta Galli.

I do not mean by this defcription to fay, that the brain is literally flayed of its Pia Mater; but that, by rendering that thin membrane exceedingly tight, the nerves may be compreffed, and a confiderable quantity of their fluid, together with a thick humor, continually fecreted from the brain, may be forced down towards the root of the nofe, and entangled round the Cryfta Galli.

By clearly comprehending this procefs, we are no longer at a lofs to account for the frequent occurrence of the flate of Coma by the curative mode of Treatment for the flomach, independently of any view to Coma: for the action directed to the cavity and internal coat of the flomach, muft flimulate it to fome degree of contraction, and that contraction muft comprefs the nerves contained in its fubflance, their fluid muft be forced upwards, the defcending fluid muft be ftopped and gradually accumulated in the brain, and, of courfe, a confiderable degree of preffure muft be formed on it: if the number of healthy nerves be fufficiently great, and the procefs perfevered in for fome time, the collected fluid muft induce ftupor, and Coma muft come on.

The flate of Coma thus unintentionally produced, may be fafely cherifhed and encouraged, becaufe it indicates a healthy flate of that part of the nervous fyftem. During its continuance, the Coma removes general irritability, and, in fome flight cafes, will frequently prove fufficient to remove the caufe of feveral diftreffing fymptoms, or confiderably decreafe obftructions, dependant in great meafure, on that particular flate of the nerves. In the prefent inflance, the effects of Coma may be confidered to refemble thofe of opium, and other narcotics, with this effential advantage, that it removes irritability without injuring the fyftem; whereas narcotics of every kind, difeafe the ftomach, and infenfibly deftroy the conflictution.

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Coma, once produced, requires little or no attention: it continues for fome time, then gradually decreafes, and foon entirely difappears: a little heavinefs may remain for a few minutes, which then goes off entirely.

If the nature of the cafe fhould require it, the Affiftant has it in his power immediately to remove every veftige of it, only by bringing down from the head the remainder of the fluid which he had carried up, and relaxing the tightened nerves: it is however, in general, more prudent to leave it to its own courfe undifturbed.

It fhould be cautioufly obferved, that partially removing the effect, will frequently fubject the Practitioner to difgrace. Stupor and head-ache may at the inftant feem to be totally removed, and yet, when the nerves recover their fenfibility, may be feverely felt by the patient during the abfence of the Affiiftant, and naturally imputed to the ignorance of the Practitioner, or imperfection of the Science. It fhould therefore be an invariable rule, never to quit fight of fuch patients before the effects have perfectly terminated. Thus far we have taken a view of Coma in its fimple flate: we are next to confider it more extenfively.

Coma may be complicated with Sleep; that is, the perfon may be in a Comatofe flate, and alleep at the fame time.

To comprehend this, it is neceffary to underftand that all the nerves in the body are fo wonderfully and fo wifely connected with each other, that an impulfe carried on any one of them will be propagated to the entire nervous fyftem. Hence, thofe nerves which muft be affected to induce Coma, being intimately connected, in their paffage from the ftomach to the head, with thofe of Sleep; the ftate of Sleep muft come on with that of Coma, provided the nerves of Sleep receive a fufficient impreffion.

If the nerves of Sleep fhould be more delicate, more pervious, or more healthy, than those of Coma, Sleep will come on before Coma.

If the nerves of Coma, as well as those of Sleep, are

delicate, healthy and unobftructed, both flates of Coma and of Sleep may come on at the fame time.

If the nerves of Sleep are dull of fenfibility, or fhould be obftructed, Coma only will be induced, without Sleep.

If the flate of Sleep only flould be produced by Treatment, the benefit accruing from it will be trivial.

If the production fhould be a mixture of Coma and of Sleep, the laft will become an impediment to the advancement of the Comatole ftate.

If the Coma fhould be pure, it may admit of improvement.

In all fuch flates of apparent flupor, it is defirable and fometimes material to afcertain whether it be pure or not, which, by attending to the following rule, we have within our power.

It is neceffary to obferve, that fome of the nerves which run up from the flomach over the face and

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temples, and creep through the fkull about the nofe and eyes, muft be healthy and pervious; and that a certain degree of preffure fhould be induced on those nerves, and thence on the brain, to contribute to the production of the flate of Coma.

When the patient falls back with clofed eyes and apparent infenfibility, if a flight degree of preffure is made on the nerves over the nofe, fhould the flate be that of Sleep only, the patient will immediately awake.

If it fhould be a mixture of Sleep and Coma, this preffure will remove Sleep, and Coma will continue. If it fhould be a pure and unmixed Coma, it will, by this gentle preffure, become confirmed, or more perfect.

This preffure may be made by delicate gentle contact, placing the finger and thumb on each fide of the root of the nofe; or it may, by proper exertion, and perhaps with greater propriety, be effected in the fame manner without contact.

This criterion to judge of the nature of each

occurring flate of flupor, is valuable, and well worthy a place in the memory of those who have the Science at heart.

Those who are in the habit of treating patients, should be aware that the flate of Coma, though quiet and tranquil at its commencement, will fometimes become diffurbed and troublefome by fudden spafms or fevere convultions. Experience and reflection in fuch cafes are effentially neceffary for the Affistant's fupport, and for the relief of the patient, as confusion would render him incapable of purfuing the proper mode of Treatment.

Those fpasms or convulsions are occasioned by fome fudden effect carried on the nerves; unexpected noife, and fometimes music will produce them; and in other subjects music will induce a contrary effect, by calming such nerves as are already in a state of irritation: this however depends on the healthy or difeased state of some particular nerves, and is foreign to the subject of our present confideration.

But the most general cause for spafms and convul-

fions, during the flate of Coma, is, the detachment of difeafed particles, which being thrown off by the exertion of Nature, acting vigoroufly to free herfelf from the derangement during this period of quiet, flrike againft, or perhaps flick in, fome tender or difeafed nerve in their paffage; the mufcles and limbs, to which the injured nerve belongs, fuddenly contract, the effect is propagated to other parts of the body, and the convulfive contortions become general.

The cool, unalarmed, and experienced Practitioner recollects, that the cure and removal of this derangement is completely within his power, by feeking the caufe and laying fmooth the contorted nerves, without diffurbing the Coma: but if the troublefome effects frequently recur, by taking off the Coma, the whole train of fymptoms immediately fubfide.

Thus we perceive, that the flate of Coma, when indicated by Nature during curative Treatment, and judicioufly purfued, proves falutary; but wantonly produced, it is not only in itfelf a Difeafe, but may be followed by very dangerous confequences; for which reafon, fuch wanton production of Coma is neither fafe nor allowable.

The appearances which announce the approach of Coma are not uniformly fimilar in all, nor at all times in any one fubject: fome figh deeply as if greatly oppreffed, and after gaping two or three times, the eyes become heavy, the upper lids fall, and are, by repeated exertions, pulled up again; the head and body appear tottering, as if unable to fupport themfelves; at length, the eyelids clofe, and the perfon falls infenfibly backwards.

Others fhudder a few times, become heavy and giddy, and, without any previous fighing or gaping, appear, with open eyes, flupid and infenfible: whilft others, with fcarcely any previous notice, fall fuddenly, as if by a violent blow.

The flate of Coma is as uncertain in the length of its duration, even in the fame fubject at different times, as it has appeared to be in the fymptoms of its approach. This will be more fatisfactorily underflood perhaps by examples: One of our brethren in this Science, a medical man, who rarely required more than twenty minutes Treatment, to reduce him to the flate of Coma, after continuing infenfible for about the fpace of half an hour, fometimes with, and at other times without, fpafmodic twitchings, generally opened his eyes with a wild flare; anfwered when fpoken to; and thought himfelf fo perfectly recovered as to be able to walk; but could take no more fleps without falling than the Operator chofe to permit him, and then fell helplefs on the carpet.

A lady who was very anxious to feel the effects of Treatment, after near three hours of unremitted attention, was at length thrown into a complete flate of Coma by one of our brethren. This long and violent exertion had eftablifhed fo effectually the neceffary preffure on her nerves and brain, and produced in them fo great an aptitude to the eftablifhed law, that for more than three weeks flee was never out of Coma, except when her brother and fifter, who were inftructed in the Science, occafionally decreafed the effects. The lady was fond of mufic, and yet the firft note flee heard on any inftrument; fo hurt her irritated nerves, VOL. 1. that it was found neceffary to remove her to a part of the houfe where no fuch founds could be heard. When thrown into the flate of Coma, the lady laboured under feveral obfiructions, all which gradually gave way, and fhe at length awoke from her Coma in good health.

By thefe examples it appears, how powerfully the nerves and brain muft be affected to induce the flate of Coma; confequently, that though fuch happy effects as those in the last case, may fome few times arise without being attended with bad confequences; yet, that it is highly imprudent to run the risk of inducing that flate, when Nature, or the necessfity of the case does not require it.

The procefs which I have defcribed is the regular and general rule for producing the flate of Coma: by this procefs you perceive that a certain degree of preffure muft be formed on the front of the brain; and as this preffure may take place in the curative procefs adapted to fome parts of the body, Coma muft of confequence come on.

The Stomach affords us one example, and the Head gives us a fecond. There occur many cafes of obftructed Wind in the Scalp, membranes of the Brain, and of the Eyes, which require to be treated downwards towards the nofe or mouth; by which an incipient Coma will announce itfelf. The inexperienced, elate at this flattering appearance of marked effects, are tempted to change their mode of Treatment, and fly to the regular rules laid down for the production of Coma; and the confequence generally is, that all their flattering appearances vanish, and leave the Affiftant exceedingly mortified and difappointed, which a few moments' reflection would have obviated. For, as the first process which caused the preffure was directed from the fkull downwards towards the nofe, and brought wind on the brain, it is evident, that treating from the ftomach upwards must push it off again, and therefore completely remove the preffure which was about to induce Coma. To fucceed then, it is clear that the process which induced the fymptoms fhould be purfued, and not changed, until the Coma is complete: then the procefs may be varied as the Affiftant pleafes.

This flort fketch of the flate of Coma leads us to the termination of our prefent inftructions, and will enable the anxious Practitioner to reduce fo much of the Theory to immediate Practice.

The infant flate of almost all difcoveries exposes them to the ridicule of unbelievers; but this Science in particular, as it militates against the interests of fo many individuals, lies open to every aspersion which fuch men can find pretext to load it with. To guard, therefore, as much as possible against fuch aspersions, I have formed for myself an invariable rule, never to treat, any Female without the prefence of a third perfon. And I beg leave to recommend that rule to the observance of every brother, until a more general acceptance of the Science science flall render such precaution unnecession.

Permit me, before we part for the prefent, most ftrongly to recommend to your attention the afflicted Poor.

Remember, that however humble their prefent flate, or circumfcribed their worldly wealth, they are our fellow-creatures, children of the fame Great Father, and equal candidates for immortal blifs; that poverty, rightly ufed, will prove to them real riches.

Remember, that we are literally their Stewards, and must expect to be feverely punished if we withhold the food, and permit our fellow travellers to want, ere yet the journey is accomplished.

We have now received for them another flewardfhip; and it is our indifpenfable duty to prove faithful to the truft: that when the morrow of this mortal life comes on, and we arrive where rigid Juffice is a ftranger to Partiality, where Virtue only can purchafe Mercy; where worldly honors appear to have been but gilded baits to lure the heedlefs to deftruction: That then our undying Spirit, refcued from its droffy mafk, may rife to joys eternal; that promifed, that fure Reward of a life well fpent, fincere Repentance, and real chriftian Charity. ' I Flatter myfelf you are now convinced, that this Science is of too exalted a nature to be trifled with or defpifed: and I fondly hope, that even the fuperficial fpecimen which you have thus far received, has given you room to fuppofe it not a human device, held out for the fportive gratification of the idle moment, but a divine call from the Affectionate Creating Parent, inviting his rebellious children by every perfuafive, by every tender motive, to renounce the deftructive allurements of earthly influence, and to perform the duties which he fent his Beloved Son into the world to inculcate, as the only and effectual conditions on which the deluded fpirit in Man fhould efcape future punifhment and enjoy eternal blifs.

The Apoftles received and accepted of those terms; Disciples out of number embraced the doctrine; and, by example, by discourse, and by cures, influenced the minds of the unthinking multitude, absorbed in fin and rioting in obstinate disobedience.

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Again, the Almighty Father deigns to roufe his children from that indifference to their impending fate, into which the watchful Enemy omits no opportunity of enticing them.

To lead our Saviour from his duty, the Tempter fhewed and offered him all this world's grandeur; fo he daily, in fome degree, does to us. Our Saviour fpurned him with contempt, and fo muft we.

Our bleffed Saviour, whofe Spirit was a ftranger to fin, cured by perfect Spiritual and Phyfical Innocence, and by an uninterrupted dependance on his Great Omnipotent Spiritual Father. He never failed.

His chofen Apoftles cured by relinquifhing this world and following Him. We have but one example, that I can recollect, of their having failed; and then Chrift told them what was neceffary to enfure fuccefs.

The Difciples and the Followers of the apoftles performed many cures; but how far they were chequered by failures I am not informed. Paracelfus, Sir Kenelm Digby, Sir Robert Fludd, and feveral others, experienced fufficient power in themfelves to verify the words of our Saviour; but were foon deprived of what was only lent, to urge them to feek for the Great Original Caufe. "Verily, verily," faid Chrift, " the works which I do, fhall ye do alfo; and greater works than thefe fhall ye do; for I go unto my Father."

Valentine Greatrakes, by obeying the inftructions imparted to him by vifions, performed many cures; but ceafing to look up to the Source, and giving way to medical importunity, he administered drugs, and could not expect fuccefs.

Gafner, a moral and religious man, performed many cures; he was fhut up in a convent through the ignorance of his fuperiors, and the fuperfitious blindnefs of the age he lived in; thence his progrefs was trivial, though his dawnings feemed to promife much.

Mefmer pillaged the fubject from Sir Robert Fludd, and found to a certainty the existence of the power; undifpofed to attend to our Saviour's information, he preferred loadftones and magnetic ideas to the fervice of the Great Author, and after performing feveral accidental cures, his magnetifm and his errors fhared the fate of his predeceffors.

Doctor D'Eflon, his partner, though a man of ftrong reafon and impartiality, afcribed the power which he experienced to the *phyfical will of man*; and after performing fome cures he fell afleep.

At length, after fo many centuries of ignorance, it has gracioully pleafed the Almighty Father to draw afide the veil, and difclofe his facred myfteries to this favoured generation. And when I fhall be called home, it will, I hope, appear that, for a bright and happy certainty of ferving my God and living with my Saviour, I pointed out to you, my Brethren, the Almighty's real Science, and that path to heaven, which Chrift, the only perfect and fuccefsful one of this lift, left to mankind as his laft teftament and ineftimable dying gift.

But let us not overlook his words: "Take the VOL. I. F F

beam from your own eye, before you attempt to remove the mote from the eye of your brother:" or, in other words, Succefsfully to cure your brother's body, you must first learn to cure your own foul.

Let us fet out with this profpect; and we may reft affured that the Ear of Heaven is as open to our petitions, as the Eye of the Almighty is to the fincerity of our heart. Here we fhall find the grand arcanum, the fleady point d'appui, the philosopher's flone, and the omnia in uno, by which we fhall fland like rocks, unfhaken through life's tempestuous ocean.

If we compare the inftructions we have received with the prefent flate of worldly man, we fhall be fhocked at the difference, and terrified at the fituation of those who have not fufficient resolution to tear afunder the chains which fhackle them to deftruction.

Our Saviour inculcated Humility, but the world holds up oftentation, pride, and ideal confequence.

Refignation and paffive obedience to the Will of

God, is the law of our Great Mafter;—but Man fets up revenge, honor, and all its rueful train of murders.

Our Saviour faid "Watch and pray always, for ye know not the hour when the Spirit of the Almighty fhall convey your foul to judgment:" but Man fays, "My granaries are full, and my fortune is large; foul, be at peace; for I will riot and be merry."

Our Saviour fays, "When you are going to pray, if you have anger or animofity to your neighbour, go firft and be reconciled to him, and then come and offer up your gift of devotion; nay, permit not even one revolution of the fun to go down on your refentment, left you fhould be called away to judgment in that unforgiving flate, and become condemned to punifhment:" but Pride, that enemy to our falvation, fays, Support your confequence, and defpife the delinquent until he has fufficiently atoned for his fault.

Thus, heedlefs man is continually led away from rectitude, until death flares him in the face, and conviction, like a thunder-bolt, rufhes on the unprepared fpirit and blackens all its profpects.

If the ways of the thoughtlefs and wicked were deftructive to themfelves only, the evil would be fingle; but alas! every individual, according to the place he holds in life, is more or lefs looked up to for imitation.

The fingle man, though unencumbered with a family, influences by his example his companions and dependants; whilft the parent's example is anxioufly looked up to by his admiring offspring. Thus, both flates become rigidly refponfible for the effects which they produce on their fellow creatures by their language or example: but what words can paint the future agonizing fenfations of that parent, whofe crimes or imprudencies may have led his offspring into torment.

Thus led into pungent conviction, thus called to the execution of our duty; thus gracioufly employed, and continually watched by the all-feeing Eye of our Omnipotent Creator; let us pray that we may be enabled to tear away every unwarrantable paffion; let us trample on the Deluder and fpurn at his temptations; let us, in full and Chriftian forgiveness, grapple to our fouls with bonds of brotherly affection, those who may have offended us, even seventy times seven, and pave the way for that glorious flight, on the verge of which we are this very instant flanding, where never-fading joys await our happy arrival.

This is the purport of our Science; this is the fecret which will lead us to perfection; this is the method of opening the eyes of the blind; this is the rule to work miracles by: and this is the road to falvation, which our Saviour concifely delivered in the Twelfth Chapter of St. Mark, in thefe words:

" The first of all the Commandments is,

"Hear, O Ifrael: the Lord our God is One Lord; and thou fhalt love the Lord thy God with all thy heart, and with all thy foul, and with all thy mind, and with all thy ftrength, and Him only fhalt thou ferve.

" This is the first Commandment; and the fecond is like; namely, this: " Thou fhalt love thy neighbour as thyfelf.

" There is none other commandment greater than thefe."

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