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# TIIIR UIFRTTTRERED AIDDIII. 

VOL. I.
TORONTO, JUNE, 1849.
No. VI.
(Prom the Edinburgh New Philomophical Journal.) ACCOUNTORTHERU®EIAN VAPOREATH.

The existence in Hamburgh of two establishments where the Russian Vapor Bath is used, brought to my recollection the description given by Acerbi and other travellers, of the intense heat and sudden transition to cold, to much relished by the natives of Northern Europe, raised my curiosity to experience in tay own person the effects of this singular species of bathing. I was further induced to take this step, from finding myself sudjenly oppressed with a violent feverish cold, which raised my pulse considerable above 100 degrees and rendered me little able to join the public dinner table in the Apollo Sael.

Accompanied by two friends who wished to
malre the same experiment, I repaired to the Alexanderbad, which is under the direction of its proprietor, a Jewish physician, who had liberally opened it gratuitously to the members of the society of Naturforcher, then assembled
at Hamburgh. We were ushered into a very seat saloon, provided with six couches, beside each of which stood a dressing table, and a Convenient apparatus for suspending the clothes of the bather. Here we undressed, and were farnished with long flannel dressing gowns and warm slippers, after which we were all conducted into a small hot apartment, where we were desired to lay aside our gowns and slippers, and were immediately introduced indo the room called the bath, in which the dim light admitted through a single window of
three panes, just sufficed to show us that there
were in it two perwons like ourselves, in puris
naturalibus, one of whom was an ebsetitial personage, the operator, the other a gentleman just finishing the process, by a copious effusion of cold water over his body. This sudden introduction into an atmospnere of hot steam was so oppressive that I was forced to cover my face with my hands to moderate the painfu impression on the lips and nostrik, and was compelled to withdraw my head as much as possible from the most heated part of the atmosphere, by sitting down on a low bench which ran along two sides of the bath.

The bath room is about fifteen feet long, by about as mach in breadth. It is lined with wood, rendered quite black by constant imtuersion in hot ateam. On two sidea it hase throe tiers of benches or rade couches, each of which is calculated to hold two persone, with their feet towards each other; so that twelve might bathe at the same time. The loweat bench projects farthest into the room; they rise tro feet above each other, and each has a wooden pillow at the ends.
In one corner of the farther end of the apartment stands the furnace, which is supplied with fuel from without, and has a thin arch of brick turned over the fire, against which the flame reverberates until the arch in red hot. To increase the heated surface, numerous small earthen jars or broken potfery are piled on the arch, and all are kept up to a low red heat. On these a basin of water is occasionally dashed; and the clouds of steam which instantly issue from the door of the heated chamber, form the source of heat employed to maintain the temperature of the bath.

In the corner opposite to the furnace is a reservoir of cold water, into which, during our stay in the bath, the person who manages it
frequently plunged to cool his surface, a precaution not unnecessary for an individual who is exposed daily eight hours, stark naked, to a temperature quite oppressive to the uninitated. Yet this exposure and this alternation cannot be unhealthy, for I never saw a more athletic man than this person, who informed me that he had been constanlly enga ged in this occupation for 16 or 18 months.

The centre of the ceiling of the bath room is perforated by numerous holes, which allow a copious shower bath of cold water to descend on the head of the bather, when a valve, managed by a cord, is opened.
Such is the apparatus necessary for a Russian -Vapor Bath.

Atter remaining some time in the bath, the first sensation of oppressive heat subsided, and $I$ ascended to the second tier of benches, the wood of whith, however, was somewhat cooler by the plentiful effusion of cold water. At each remove, this opperation is repeated; otherwise the contact of the wood would be insupportable to the skin. It is needless to say that the perspiration soon began to run from every pore, not merely as a moist exhalation, but ran off in copious streams. This greatly moderated the sensation of the heat.

After lying extended for some time on the meond tier of benches, a bucket of cold water was dashed on the apper one, and we removed there; but the heat so near the ceiling was fully as oppressive as on first entering, and I found it necessary to allow the air to enter my nose through my fingers. If I inhaled it with my mouch wide open, I felt an oppressive heat in my chest, but by degrees even this degree of heat became supportable, though I never was able to sit upright on the bench, so strong was the temperature of the humid atmosphere close to the ceiling.

Whils we were grouping our way from beach to bench, the assistant more than once plunged headlong into his cold bath, to refresh himself ere he commenced on us the next part of his professional occupation.

We were, one by one, requested to descend to the second tier and the assistant, grasping in his hand a bundle of birch rods, began
assiduously to whip his patients, who lay extended on the bench at full length, from head to heel. This application differs essentially from the well remembered scholastic birch discipline, for the leaves are left on the twigs and the sensations produced in no way resemble the effect of the instrument employed in English schools to convey a knowledge of Greek and Latin into the head of our youth. In fact, this species of whipping is performed very dexterously, with a sort of brushing motion, from the shoulders downwards, and the application becomes general over the body and limbs, as the bather turns on his wooden couch. The sensations produced by this operation are agreeable, and are very far from producing that excessive redness of the surface described by Acerbi.

The operator now anoints the whole body with a liquid mild soap; and, after again mounting to the upper tier for some time, we descend, one by one, to the midle of the floor, where a powerful effusion of cold water from the shower baih in the ceiling, removes every vestige of soap. This sudden effusion of cold water is remarkably grateful: it is scarcely possible to describe the effect, which is highly exhilerating and refreshing.

It is usual again to undergo the steaming after the temperature of the bath is increased by the effusion of water on the glowing pottery in the furnace. For this purpose the operator opens the doors above described and places us out of the direction of the immediate efflux of the steam, he dashes in successive jets a small bucket of water into the furnace; the apartment is instantly filled with clouds of steam at a high temperature, and when the door of the aperture is closed, we resume our places on the benches, gradually proceeding to the highest as we become inured to the temperature. From the upper tier we finally descend to have the shower bath repeated, after which we leave the bathing room are rubbed dry by assistants in the small heated apartment, where we resume the flannel dressing gown and slippers, and are reconducted to the saloon, where we find the couches spread with blankets, and we recline for half
an hour in a most profuse perspiration and in a state of luxurious languor and mental tranquility.
On a subsequent occasion I provided myself with the means of ascertaining the temperature of ths bathing room, and noticed its effects on the pulse of myself and two other baihers.The heat is generally from 45 to 50 degrees of Reaumer, that is, from 133 degrees 55 min . to 144 degrees 5 min . of Fahrenheit. On the occasion referred to, it ranged from 32 deg. to 46 deg. of Reaumer-126 deg. and 185 deg .5 min . Fabrenheit - in the lower part of the bathing room; but I was unable to examine the temperature near the ceiling, on account of the thick vapor and the intensity of the temperature, which affected my eyes. This temperature high as it is, is far short of what Acerbi avers of the Finish baths; he says that they reach from 70 to 75 deg . of Celsius -158 to 167 deg . of our scale-but perhaps his thermometers were subject to the open fire place, in the rude baths of that people; for their furnace consisted of a few loose stones piled into a sort of rude arch over a fireplace on the flowr of the hut, or perbaps he did not accurately ascertain the temperatue, as he never entered the bath but momentarily for the purpose of placing his thermometer; and $I$ am confirmed in this by observing that the Finish operator, in his plate, appears dressed in his ordinary clothes, which I should think insupportable in so high a temperature as he assigns.

The effect of the Russian Vapor Bath is, to accelerate the pulse, which soon regains its natural standard on leaving the bath; and when I took it,in a highly feverish state, I was within an hour after, entirely free of fever and able fully to enjoy the philosophic soiree that even ing.

The process of the vapor bath is completed, by a plentifnl supply of towels, with which we gradually dry the surface, while we are well rabbed down by an assistant. We then resumed our dress and returned to a coffe room where there was a plentiful supply of newspapers, and had a cup of good coffe for two pence sterling.

I inquired anxiously into the medical efficacy of the Rusian Vapor Bath, and found that in chronic rheumatism, or stffness of limbs consequent on gout, and other long contiaued inflamations, in some cases of palsy, in various cutaneous diseases, it is a most powerful and valuable remedy. While in the eatablishment I saw an invalid enter, who ipformed me that after severe acute rheumatism, of several months duration, he was so lame that he had been carried by twa persons into the bath; but that, after five or six times undergoing the discipline I have described, he could walk alone as well as I saw him, and appeared confident that in a little time he should entirely recover the power and flexibility of his limbs.
From all that I could learn in Hamburgh, I am inclined to consider the Russin Vapor Bath as a most valuable remedy in some chronic diseases, and regret that we have not a similar establishment in any of our medical charitable institutions.
February, 1832.
(From the German of Gausecn.)
AETONISHING ACCURACY OTR TRE (1) BEE.

An astonishing feature of the word of God is that notwithstanding the time at which its compositions were written, and the multitudes of the topics to which italludes, there is not one physical error-not one assertion or allosinn disproved by the progress of modern science. None of those mistakes which the science of each succeeding age discovered in the books of the preceeding; above all, none of those absurdities which modern astmnomy indicates in such great numbers in the writings of the ancients-in their sacred codes, in their philosophy, and even in the finest pages of the fathers of the church not one of these eifors is to be found in any of our sacred books. Nothing there will ever contradiet that which aftor so many ages, the investigations of the learned world have been able to reveal to us on the state of our globe, or on that of the beavens. Peruse with care our seriptures from one end to the other, to find there such spots; and
whilst you apply yourselves to this examination, remember that it is a book which speaks of everything, which describes nature, which recites its creation, which tells us of the water, of the atmosphere, of the mountains, of the animals, and of the plants. It is a book which teaches us the first revolutions of the world, and which also feretells its last; it recounts them in the circumstancial language of history, it extols them in the sublimest strains of poetry, and it chants them in the charms of glowing song. It is a book which is full of oriental raptures, elevation, variety and boldness. It is a book which speaks of the heavenly and invisible world, whilst it also speaks of the earth and things visible. It is a book which nearly fity writers, of every degree of cultivation, of every state, of every concition, and living through the course of fifteen hundred years, have concurred to make. It is a book which was written in the centre of Asia, in the sands of Arabia, and in the deserts of Judeah; in the courts of the temple of the Jews, in the music schools of the prophets of Bethel and of Jericho, in the sumptuous palaces of Babylon, and on the idolatrous banks of Chebar; and finally, in the centre of the western civilization, in the midst of the Jews and of their ignorance, in the midst of polytheism and its idols, as also in the bosom of pantheism and of its sad philotophy. It is a book whoose first writer had been forty years a pupil of the magicians of Egypt, in whose opinion the sun, the stars, and the elements were endowed with intelligence, reacted on the elements, and governed the world by a perpetual alluvium. It is a book whose first writer preceded, by more than nine handred years, the most ancient philosophers of ancient Greece, and Asia-the Thalesea, and the Pythagorases, the Zalucuses, the Zenophons, and the Confuciuses. It is a book which carries its narrations even to the Dierarchies of angels-even to the most distant epoch of the future, and the glorious scenes of the last day.-Well, search among its 50 anthors, search among its 66 books, its 1186 chapters, and its 31,173 verses, search for only one of those thousand errors which the ancients and the moderns committed, when they speak
of the heavens or of the earth-of their revolutions, of the elements; search-but you will find none.

## (From the Pbiladelphia Botanic Sentinel.)

## INFLAMATORY RHLUMATISM.

On Monday evening, the 9th inst., I was called to visit Mr. Henry Snider, residing back of 42 Duke strcet, who was suffering under an attack of inflammatory rheumatism of the lower extremities, of four weeks standing. He had taken every thing he could think of to procure relief, but found none. Some few days previous to his sending for me he had taken an ounce and a half of tincture of opium, (laudanum,) which lulled the pain very little, if any; but produced such obstinate constipation, that nothing passed from his bowels since the previous Wednesday-five days. His legs from the hips down, were swelled very much. He could not move either one in bed an inch, and they were so sore as to render it difficule for others to do it.

I ordered a strong tea of Nos. 2 and 3 to be taken every three hours during the night and following morning (my engagements being 100 urgent to admit of my giving him a course that evening) and an injection to be given at night and repeated in the morning. On Tuesday, about 10 o'clock, A. m., I found him in a gentle perspiration with a slight abatement of pain and soreness. I commenced giving him a thorough course, administering the third preparation as an emetic, after a steaming which caused profuse perspiration. The emetic acted as I had never seen it before, though no doubt it was owing to the preparations previously taken. The first teaspoonful operated copiously in about five minutes from the time it was swallowed, ejecting from the stomach large quantities of bile. I however, administered the dose a second and third time; both producing effects like the first. As the perspiration had been so very profuse, I did not consider it necessary to repeat the vapor bath after the emetic. I ordered the same medicines to be taken after as before the course. On Wednesday I administered a second course,(giving
two vapor baths,) which operated in the usual way. I had almost forgotten to mention that this (Wednesday) afternoon, I found him sitting up, and able to walk across the room, with a little assistance. The medicines continued, with two injections a day. On Thursday morning he had a natural passage from the bowels-the first in eight days. On Friday he expressed himself able to walk about, and as a manifestation of his satisfaction, paid my bill that day.
I have reported this case, not because a cure of rheumatism by Thomsonians is an unusual thing, but because of the singular operation of the first emetic, and the uncommon quickness of the cure. Wm. Henry Fonerden. Philadelphia, April 21, 1838.
(From the Huron Signal.)

## OUR OWN BROAD LAKE.

We cannot boast of high green hills,
Of proud, bold cliffs where eagles gather,
Of moorlane glen and mountain rills,
That echo to the red-bell'd heather.
We cannot boast of mould'ring towers,
Where ivy clasps the hoary turret, Of chivalry in Ladies' bowers, Of warlike fame, and knights who wore itBut, had we Minstrel's Harp to wake, We well might boast our own broad lake!

And we have streams that run as clear, O'er shelvy rocks and pebbles rushingAnd meads as green, and nymphs as dear In rosy beauty sweetly blushingAnd we have trees as tall as towers, And older than the feudal mansionAnd banks besprent with gorgeous flowers, And glens and wolds, with fire-flies glancing; But prouder-loftier boast we make, The beauties of our own broad lake.

The lochs and lakes of other lands, Like gems may grace a landscape painting,
Or where the lordly castle stands,
May lend a charm, when charms are wanting;
But ours is deep, and broad, and wide,
Withsteamshipsthough its waves careering,

And far upon its ample tide
The bark her devious course is steering; While hoarse and loud the billows break On islands of our own broad lake !

Immense, bright lake! I trace in thee, An emblem of the mighty ocean, And in thy restless waves I see Nature's eternal law of moticn; And fancy sees the Huron Chief Of the dim past, kneel to implore theeWith Indian awe he seeks reliefi, In pouring homage out before thee; And Itoo, feel my reverance wake, As gazing on our own broad lake!

I cannot feel as I have felt
When life with hope and fire was teeming Nor kneel as I have often knelt At beauty's shrine, devotedly dreaming. Some younger hand must strike the string, To tell of Huron's awful grandeur, Her smooth and moonlit slumberings, Her tempest voices loud as thunder ; Some loftier lyre than mine must wake, To sing our own broad, gleaming lake!
T. Macrueen.

July 9, 1849.

## DOCTORS EASY AND FUSEEX.

There shall be (it is observed in the natural history of Humbugs,) two men, Doctors, for example, of equal learning and skill: they are on the look out for a practice. Dr. Easy puts his name on a brass plate on the door, and then sits down in his drawing room to wait for patients. Need I say that he has generally to want a long time. But Dr. Fussey does not approve of the passive system. He starts a brougham before he has a visit to make in it.He hires people to alarm all the neighborhood with peals of his surgery bell. He is continually heing called out of church, and has once ventured on having his name shouted as being immediately wanted, while attending a religious meeting at Exeter-hall. Not a form or advertisement-barring those which pay the duty-does Dr. Fussey neglect, and the odds are in the end that he is making $£ 1,000$ a-year,
before Dr. Easy has heard the rat-tat at the door of his first patient. Now, perhaps, Dr. Fussey may, of the two, be the humbug; but I very much question whether he is the fool.What applies to these two Doctors, applies generally to every trade and profession under the sin. Barring a lucky chance now and again, an adventurer will find that in the Battle of Life every man must be his own trumpeter. Sound your own charge and ride over every body, or somebody else will sound his charge, and ride over you.

## THE INVITATION.

My wealth is in a little cot, Which stands upon a meadow floor Close by a brook: the brook is small, But cannot clearer be, I'm sure.

A tree stands near the little cot, Which for its boughs is scarcely seen; And against sun, and cold, and wind, It shelters those that dwell therein.

And theree a pretty nightingale Sings on the tree so sweet a song.
That every passing traveller stands To listen: ere he speeds along.
Thou little one, with sunny hair, Who long hath blest my humble lot 1 go-rough blows the stormy wind-

Wilt thou with me into my cot?

The hours of a wise man are lengthened by his ideas, as those of a fool are by his passions. The time of the one is long, bceause he does not know what to do with it ; so is that of the other, because he distinguishes every moment of it with useful or amusing thoughts; or in other words, because the one is always wishing it away, and the other always enjoying it.

"We must adopt the Thomsonian remediaj agents, or loose our practice. I have used Steam, Cayeane, and lobelia, and found them to be useful remedies to remove disease. Prof. M'Clellon.

## MECHANISM OF THE HUMAN

## SKELETON.

There is scarcely a part of the human body, or an action which it performs, or an incident that can befall it, or a piece of professional assistance which can be given to it, that does not furnish illustration of some truth of natural philosophy; but we shall here only tonch upon as many particulars as will make the understanding of others easy. The craniom or skctic is an instance of the arched form, answering the purposes of giving strength.The brain, in its nature, is so tender, or susceptible of injury, that slight local pressure disturbs its action. Hence a solid covering, like the skull, was required, with those parts made stronger and thicker which are most exposed to injury. An architectural dome is constructed to resist one kind of force only, always acting in one direction, namely, gravity; and therefore its strength increases regularly towards the bottom, when the weight and horizontal thrust of the whole are to be resisted; but, the tenacity of the substance is many times more sufficient to resist gravity, and therefore aids the form to resist forces of other kinds, operating in all directions. When we reflect on the strength displayed by the arched film of an eggshell, we need not wonder at the severity of blows the cranium can withstand.
Through early childhood, the cranium remains, to a certain degree, yielding and elastic; and the falls and blows so frequent during the lessons of walking, \&c., are borne with impunity. The mature skull consists of two layers, or tables, with a soft diploe between them; the outer table being very tough, with its parts dovetailed into each other, as tough wood would be by human artificers, while the inner table is harder, and more brittle, (hence called vitreous) with its edges merely lying in contact, because its brittleness would render dovetailing useless. A very severe partial blow on the skull generally fractures and depresses the part, as a pistol bullet would; while one less severe, but with more extended contact, being slowly resisted by the arehed form, often injures the skull, by what is correspondent to the horizontal thrust in a bridge,
and causes a crack at a distance from the place struck, generaliy half way round to the opposite side. Sometimes in a fall, with the head foremost, the skull would escape injury, but for the body, which falls on it, pressing the end of the spine against its base.
In the lower jaw we have to remark the greater mechanical advantage, or lever power, with which the muscles act, than in most other parts of animals. The temporal and masseter muscles pull almost directly at right angles to the line of the jaw, while in most other cases, as in that of the deltoid muscle lifting the arm, the muscles act very obliqely, and with power diminished in proportion to the obliquity. An object placed between the back teeth is compressed with the whole direct power of the strong muscles of the jaw ; hence the human jaw can crush a body which offers great resistance, and the jaws of the lion, tig 2r, shark, and crocodile, \&c. are stronger still. The teeth tank high among those parts of the animal body, which appear almost as if they were severally the fruits of distinct miraculous agencies, so difficult is it to suppose a few simple laws of life, capable of producing the variety of form so beantifully adapted to purposes which they exhibit. They constitute an extraordinary set of chissels and wedges, so arranged as to be most efficient for cutting and tearing the food, and with their exterior enamel, so hard, that, in early stages of society, teeth were made to answer many purposes for which steel is now used. It seems, however, as if the laws of life, astonishing as they are, had still been inadequate to cause teeth, ceased in their hard enamel, to grow as the softer bones grow, and hence has arisen a provision more extraordinary still; a set of small teeth appear $800 n$ after birth, and serve the child, until six or seven years of age; these then fall out, and are replaced by larger ones, which endure for life; the number being completed only when the man or woman is full grown, by four teeth, called wisdom teeth, because they come so late, Which rise to fill up the then spacious jaw.

The spine or back bone has in its struc. ture as much of beautiful and varied mechanism, as any single part of our wonderful
frame. It is the central pillar of support, or great connecting chain of all the other parts; and it has, at the same time the office of containing within itself and of protecting from external injury, a prolongation of the brain, called the spinal marrow, more important to animal life than the greater part of the brain itself. We shall see the spine unitirg the apparent incompatibilities of great elasticity, great flexibility in all directions, and strength both to support a load, and to defend its important contents.

Eliasticity.-The head may be said to rest on the elastic column of the spine, as the body of a earriage rests on its springs. Between each two of the twenty-four vertebre, or distinct bones, of which the spine consists, there is a soft elastic intervertebral substance, about half as bulky as a vertebra, yielding readily to any sudden jar; and the spine, moreover, is waved or bent a little, like an italic $f$ as seen when it is viewed sideways; and, 1 for this reason also, it yields to any sudden pressure, opperating from either end. The bending might seem a defect in a column intended to support weight; but the disposition of the muscles around is such, as to leave all the elasticity of the bend and a roomy thorax, without any diminution of strength.

Flexibility.-The spine may be compared to a chain, because it consists of twentyfour distinct peices, joined by smooth rubbing surfaces, so as to allow of motion in all directions; and a little motion, comparatively, between each two adjoining pieces, becomes a grea extent of motion in the whole line, Thet articulating surfaces are so many, and so exactly fitted to cach other, and are connected by such number and strength of ligaments, that the combination of pieces is really a stronger column than a single bone of the same size would be. The strength of the spine, as a whole, is shown in man's easily carrying upon his head a weight heavier than himself, while each separate vertebre is a strong irregular ring, or a double arch, surrounding the spinal marrow. The spine inereases in size towards the bottom, in the justest proportion, as it has more weight to bear.

Attached to twelve vertebrex in the middle of the back are the RIBs, or bony streatchers of the cavity of the chest, constituting a structure which solves, in the most perfect manner, the difficult mechanical problem of maling a cavity, with solid exterior, which shall yet be capable of dilating and contracting itself. Each pair of corresponding ribs may be considered as forming a hoop, which hangs obliquely down from the place of attachment behind ! so that, when the fore part of all the hoop is lifted up by the muscles, the cavity of the chest is enlarged.

The shoclder jon's is remarkable for combining great extent of motion, with great strnegth. The round head of the shoulder bone rests upon a shallow cavity in the shoulder blade, that it may turn in always; and the danger of dislocation from this shallowness is guarded against by two strong bony projections above and behind. To increase the range of motion to the greates possible degree, the bone called the shoulder blade, which contains the socket of the arm, slides about itself upon the convex exierior of the chest, having its motion limited only by a connexion through the collar bone, or clavicle, with the sternum. The scapula, or blade bone is extriordinary as an illustration of the mechanical rules for combining lightness with strength. It has the strength of the arch from being a little concave, and its substance is chjefly collected in its borders and spines, with thin plates between, as the strength of a wheel is collected in its rim, and spokes, and nave. The bones of the arm, considered as levers, have the muscles which move them attached very near to the fulcra, and very obliquely; so that, from working through a short distance comparatively, with the resistance overcome at the extremities, the muscles require $t$ be of great strength. It has been calculated that the muscles of the shoulder joint in the exertion of lifting a man upon the hand, pull with a force of two thousand pounds. The os humera, or bone of the upper arm; is not perfectly cylindrical; but, like most of the other bones which are called cylindrical, it has sidges to give strength.

The elbow joint is a correct hinge, and so strongly secured, that it is rarely dislocated without fracture. The fore arm consists of two bones, with a strong membrane between them. Its great breadth, from this structure, affords abundant space for the origin of the many muscles thot go to move the hand and fiingers; and the very peculiar mode of connexion of the two bones, gives man that most useful faculty of .turuing the hand round, into what are called the positions of pronation and supination, exemplifiied in the action of twisting, or of turning a glimblet The many small bones which form the wrist have a signal effect of deadening, in regard to the parts above, the shocks or thows which the hand receives. The anular ligament is a strong band, passing round the joints and keeping all the tendons which pass from the muscles above to the fingers, close to the joint. It answers the purpose of so many fixed pulleys, for directing the tendons; without it, they would all, on action, start out like bowstrings, producing deformity and weakness. The human hand is so admirable, from its numerous mechanical and sensitive capabilities, that an opinion at one time commonly prevailed, that man's superior reason depended on his possessing such an instructer and such a servant. Now, although reason, with hoofs insteaa of fingers, could never hare raised man much above the brutes, and probably could have not secured the continued existence of the species, still the hand is nothing more than a fit instrument of thegod-like mind that directs it.

The pelvis, or strong irregular ridge of bone, on the upper edge of which the spine rests, and from the sides of which the legs spirng forms the centre of the skeleton. broad bone was wanted here to connect the cen tral column of the spine with the lateral column of the legs; and a circle was the lightest and strongest. If we attempt still further to conceive how the circle coald be modified to fit it for the spine to rest on, for the thighs to roll in, for the muscles to hold by, both above and below, for the person to sit on, we shall find, on inspection, that all
our anticipations are realized in the most perfect manner. In the pelvis, too, we have the thyroid hole and ischiatic notches, furnishing subordinate instances of contrivance to save material weight ; they are merely deficiencies of bone, where solidity could not have given additional strength.

The mip joint exhibits the perfection of the ball and socket articulation. It allows the foot to move round in a circle, as well as to have the great range of backward and forward motion, exhibited in the action of walking. When we see the elastic, tough smooth eartilage, which lines the deep socket of this joint, and the similar glistening covering of the ball or head of the thigh bone, and the lubricating synovia poured into the cavity, by appropriate secretories, and the strong ligaments giving strength all around We feel how far the most perfect of man's Works fall short of the mechanism displayed by nature.

The thin bone is remarkable for its prajections, called trochanters, to which the moving muscles are fixed, and which lengthen considPrably the lever by which the muscles work. The shaft of the bone is not straight, but has a considerable forward curvature. Short sightedness might suppose this a weakness, because the bone is a pillar supporting a weight; but the bend gives it, in reality, the strength of the arch, to bear the action of the mass of muscle called vastus, which lies and swells upon its fore part.

The anes is a hinge joint of complicated stracture; and it claims the most attentive stady of the surgeon. The rubbing parts are flat and shallow, and therefore the joint has little strength from form; but it derives security from the numerous and singularly strong ligaments which surronnd it. The ligaments on the inside of the knees resemble, in two circumstances the angular ligaments of joints, namely in having a constant and great strain to bear, and yet in becoming stronger always as the strain increases. The line of the leg, even in the most perfect shape, bends inward a little at the knee, requiring the support of the ligaments, and in many peons it bends so
very much : but the inclination does not increase with age. The legs of many weatly in-kneed children become straight by exercise. alone. This inclination at the middle of the legs, by throwing a certain strain on the ligaments, gives an increase of elasticity to the limb, in the actions of jumping, running, \&c. In the knee there is a singular provision of hose cartilages, which have been called friction cartilages, from a supposed relation in use to friction wheels; but their real effect seenıs to be tc accomodate, in the different positions of the joint, the surfaces of the rubbing bones to each other. The great muscles on the fore part of the thigh are contracted into a tendon, a little above the knee, and have to pass over and in front of the knee, to reach the top of the leg. where their attachment is. The tendon, in passing over the joint, becomes bony, and forms the patella, or knee pan, often called the pulley of the knee. This peculiarity enables he muscles to act more ad vantageous' $y$ by increasing the distance of the scope from the cestre of motion. The patela is, moreover a sort © shield or protection to the fore part of this importan: joint. The leg below the kree, like the fore arm already described, has two bones. They offer spacious surface of origin for the numerous musc es required for the feet; and they form a compound pi'Lar of greater strength than the same quaztivy of bone, as one shaft would have had. The inaivijual bones also, are anguiar, instead of round, hence deriving greaur power to resis' Jlows, \&c.

The ankle jontris a perfect hinge of great strength. There is in front of it an anular lig. ament by whieh the greater part ofit he tendons passing downwards' o the foot and toes, are kept in their places. One of these tendons passes undert he bony pronection of the inner ankle, in smoa:he appropriate grove, exactly as if a litule fixed ulley were there. The heed by projecting so far backwards, is a hever for the strong muscles to act bv, which irom the calf of the leg, and terminate in the tendo achillis. These muscles, by drawing at it, lift the body, in the aetions of standing on the toes, walking, dancing, ac. In the foot of the negro, the heel is so long as to be ugls, in

European estumation; and, its great length rendering the ettort of sma...t muscles sufficient for tae various purposes, the ralf of the leg in the negro is smaller in proporion, than in sther races or men.

The arch of the foot is tc be noliced as another of the mapy provigions for savir.g the body from shocks, by the elasticity of the supports. The heels and the balls of the tees are the two extremeties of tot elastic arch, and the leg rests between thern. Connected with elasticity, it is interesting to remark how imperfectly a wooden leg answers the purpose of a natural leg. With the wooden leg, which always remains of the same length, the centre of the body must describe at each step, a portion of a circle of which the bottom nob of the leg is the centre, and the body is therovore constantly rising and falling; while with the natural legs; which, by gentle fleure at the knee, are made shorter or longer in different parts òt the step, as required, the body is carried along in a mannet perfectly level. In like manner, a man riding on horseback, if he keep his back upright and stiff, is jolted hy every step of the trotting animal ; but the experienced horseman even without rising in the stirrups, by letting the back yield a litule at each movement, as a bent spring yields during the motion of a carriage, can carry his head quite smoqthly along. In a general review of the skeleton, we have to remark-

1, The nice adaption of all the parts to each other, and to the strains which they have respectively to bear; as in the size of the spinal vertabra increasing from above downwards, the bones of the leg being larger than those of the, arm, and so on.
2. The objects of strength and lightness combined, as by the hollowness of the long bones; their angular form, their thichening and flextures in particular places where great strain lass to be borne; the enlargement of the extremities to which the muscles are attached, lenghening the lever by which these act.

3, We have to remark the nature and strength of material in different parts, so adminab.y adapted to the purposes which the part serve. There is a bone; for instance, in
one place, nearly as hard as iron, where, covered with enamel, it has the form of teeth, with the office of chewing and tearing all kinds of matter used as food. In the cranium, again, bone is sofier, but tough and resisting : in the middle of long bones, it is compact and little bulky, to leave room for the swelling of the muscles lying there; while at either end, it is large and spongy, with the same quantity of matter, to give a broad surface for articulation; and, in the spine, the padies of the vertabra, which rest on an clastic bed of intevertebral substance, are $\mathrm{l}_{\text {ight }}$ and spongy, while their articulating surfaces and processes are very hard. In the joints we see the tough, elastic, smooth substance, called cartillage, covering the ends of the bones, defending and padding them, and destroying friction, In infants, we find all the bones soft or grisly, and therefore calculated to bear, with impunity, the falls and bluws unavoidable at their age; and we see certain parts remaining cartillage or gristle for life, where their elasticity is necessary or useful, as at the anterior extremity of the ribs. About the joints we have to remark the ligaments, which bind the bones together, possessing a tenacity scarcely equalled, in any other known substance; and we see that the musctilar fibres, whose contractions move the bones, and thereby the body-because they would have made the limbs clumsy even to deformity, had they all passed aver the joints to the parts which they have to pull-attach themselves, at convenient distances, to strong cord called a tendon, by means of which, like a hundred saitors at a rope, they make their effort effective at any distance. The tendons are remarkable for the greal strength which resides in their slender forms and for the lubricated smpothness of their surfaces. Many other strixing particulars might be enumerated; but these may suffice.
Such, then, is the skeleton, or general framework of the human skeleton-less curious and complicated, perhaps, than some other parts of the syscem, but so perfect and so wonderful, that the mind which can attentively considel it without emotion, is in a state not to be envied. The living force of man has been used as a working power in various ways, as
in turning a winch, pulting at a rope, walking in the inside of a large wheel to move it, as a squirrel or turnspit dog moves his little wheel, \&c. Each of these has some particular advanlage; but that made in which, for many purposes, the greatest effect may be produced, is for the man to carry up to a height his body only, and then to let it work by its weight in descending. A brick-layer's laborer would be able to lift twice as many bricks to the top of a house in the course of a day, by ascending a ladder without a load, and raising bricks of nearly his own weight over a pulley each time in descending, as he can by carrying bricks and himself up together, and desending, again without a load, as is still ustually done. Reflection would naturally anticipate the above result, independantly of experiment; for the load which a man should be best able to carry, is surely the one from which he can never free himself, the tweight of his own body.

Accordingly, the strength of muscles and disposition of parts, are all such as to make his body appear lighi to him. The question which was agitated with such warmth some time ago, as to the propriety of making men and women work on the tread-mill, receives an easy decision here: They twork by elimbing on the outside of a large wheel, or cylinder, which is turthed by their weight; and on whith they must tdvance jutst as fast as it turns, to avoid falling from their proper situation. There are projections or steps for the feet on the vutside of the cylinder, and the action of the workers is exactly that of ascending an acclivity. Now, as nature has fitted the human body for climbing hills, as well as for walking on plains, the work on the treadmill, under proper restrictions as to duration, Must be as natural and healthful as any other. lts effects have now proved it to be so. As animal power is exhausted exactly in proportion to the time during which it is acting, as well as in proportion to the intensity of force eierted, there may be often a great saving of it by doing work quickly, although with a litthe more exertion ciuring the time. Suppose two men of equal weight to ascend a stairs, one of whom takes only a minute to reach the
top, and the other four minutes; it will coot the first but a little more than a fourth part of the fatigue which it cost the second, betause the exhaustion has relation to the tinde duting which the muscles are acting. The quick mover may have exerted perhap's one-twéhlia eth more force in the flrst instant, to give his body greater velocity, which was afterwards continthed ; but the slothful mover supported is load four tinnes as long.

A healchy man will run rapidly up a long stairs, and his breathing will scarcely be quickeried when he arrives at the top; but if he walk up slowly, his legs will feel fatigued; and he will have to wait some tutte before he can speak calmly. For this same reason, coach-horses are much spared by being made to gallop ap a short hill, and being then allowed to go more slowly for a little time, so as to ${ }^{\circ}$ rest at the top. The rapid waste of muscular strength which arises from continued action, is shown by keeping the arin extended horizoit: tally for some time: few can, contine the exertion beyond a minute or two. In animals which have long horizontal necks, there is provision of nature in a strong elastic substance on the back or upper part of the necks which nearly supports the bead, independently of muscular exertion.

## ROBINSON, SLECTURE思。 LECTURE VI.


It was observed by the ancients, as an argument for the duration of the soul, that this state did not appear to be the final residence of any portion of its ltihabitants: That all nature was in progressive motion; evidently hastiening fortward to some far distant ceitrre, where it should attain the perfection of its being, and the consumination of that excellencé for which the Deity had designed it.

It we apply this argument to the progress and revolutions of medicine, we may anticipate, with joyful hearts, that the perfection of its scienc, is nigh at hand. In tracige its history; we find that almost every now professor comes forward with his new theryif and his proscription of his predeccssors. Those intes-
sant revolutions must ultimately terminate: And we most ardently hope, that cnd may be perfect knowledge, in the completion of the system; that simplicity and success, a fixed and permanent mode of practice, may ise universally adopted; and the wavering and contending systems be banished from the carth.

I know it has been said, in defence of this perpetual change, that every science around which new facts are daily accumulating, requires, from time to time, an entire reform and renovation. But that this reform and renewal of the whole system of medicine, from age to age, should be accounted for, merely by the "accumulation of facts," and not the perversity of principles, I apprehend, will not bear the test of sound argument. Other sciences, as well as medicine, have been changed often; but it was professedly because their former principles were false, and not derived from facts, from experience, and observation : and not on account of the accumulation of facts, which only serve to confirm right principles.

The symptoms, of malignant and inflammatory fevers, appear to be the same now, that they were in th; days of Hippocrates; and yet how various has been the treatment since that time.
There must be first principle: in medicine as well as in philosophy, which are invariable and incontestible; which, like the stars of the firmament, in guiding the mariner, will conduct the physician, with assured aim, through the deep ocean of human troubles. When learning revived, the physicians of Europe employed themselves in reviving the system of Galen and Hippocrates. During the course of the sixteenth century, the study of the physicians was almost solely employed in explaining and confirming that system. Early in the same century, the noted Paracelsus had laid the foundation of a chemical system, which was in direct oppsition of that of Galen. This system finally prevailed over the Galenists. But though opposed and eontending, the explanations of both, of the phenomena of health and sickness, turned so encirely on the state of the fluids of the brdy,
that a humoral and chemical pathology pres vailed, sometines together, and sometimes apart, down to the end of the seventeenth cen ${ }^{*}$ tury ; and even to the end of the eighteenth, had a great share and influence on the practice of medicine.

In the begining of the eighteenth century' Stahl, Hoffman, and Boerhaave, produced three new and different systems of physic, and mixed up their doctrines of spasm, of morbid acramonies, of vis natura conservatrix, with the humoral pathology of Riverus, and the chemical affinities and repulsions of Paracelsus. But the Autocratcia, says Dr. Cullen, obtained and admitted, in some shape or other, by every sect, had corrupted the practice of all physicians, from Hippoerates to Stahl. This is a sweeping sentence, pronounced upon the anima medica, by the good doctor of Edinburgh. And his own Nosulogy, has received one more severe and decisive from the pen of Rush.
"Sic transit gloria mundi!" * is forced upon us as we pass along this boisterous stream of conflicting pathology. And where, alas, shall we find resil on what rock shall our feet settle! where shall the lovely, fleeting form of happiness be found! Some of the latter philosophers of Greece, hardened and confoun ${ }^{-}$ ded by the disputes of the schools, took refugc in an universal scepticism. But let us not, my friends, despair amdist the glooms of the thickening tempest. The day will down and brighten, the storm shall pass away, and the bright sun of healing splender, shine upon the world.

From the simple solids, in their state of rigidity or laxity, as a doctrine accounting for health or disease, by Dr. Boerhaave, Dr Cullen passes of to the solidum vivum; and expresses his confidence, that he had seized on a clue of investigation, in laying hold of the motions and moving powers of the animal econemy, more certain $w$ detect the cause ${ }^{5}$ and phenomena of disease, than ever had been before discovered; for, although Hoffman had dipt into this fundamental spring of the science, he had also polluted it with his mixture of the humoral pathology.

[^0]The value of Dr. Cullen's researches, we will soon perceive, in the investigations, of Brown; and Dr. Thompson himself, was never more puzzled and confounded, when he had to contend alone with the whole faculty, than Dr. Brown appears to have been, in throwing off the entanglements of Cullen's system. He studied under Cullen; he lived in his family; and he lectured on his system. But I shall give the history of his scientific progrees ; in his own words. "The author, says Brown in the preface to his works, the author of this wort has spent more than twenty years in learning, teaching, and scrutinizing every part of medicine. The first five years passed away in hearing others, in studyidg what I had heard and implicitly believing it, and entering upon the possession, as a rich and valuable inheritance. The next five years I was employed in explaining the several particulars, in refining them, and bestowing on them a nicer polish. During the five succeeding years, nothing having prospered according to my satisfaction, I grew indifferent to the subject ; and, with many eminent men, and even the very vulgar, began to deplore the healing art, as altogether uncertain and incomprehensible." You have here, my friends, the decision of this original mind, on the imperfection of a system that had been progressing for four thousand years. "All this time passed away, says Dr. Brown, without the acquisition of any advantage, and without that, which, of all things, is the most agreeable to the mind, the light of truth; and so great and precious a portion of the short and perishable life of man was totally lost !Here I was, at this period, in the situation of a travoller in an nnknown country, who, after losing every trace of his way, wanders in the shade of night. Nor was it until between the fifteenth and twentieth years of my studies, that a faint gleam of light broke in upon my soul."

Dr. Brown then proceeds to detail the cause of this new beam of light which broke in upon him. He had an attach of the gout, in the thirty-sixth year of his age ; his mode of living had been generous until the six months previous to his fit of the gout, during winich time he had
used the most sparipg diet. The disease spent its force in six weeks, and did not return until after an interval of six years, and an abstemiousdiet of stx months.
The theory of the physicans was, that the gout was caused by plethora and excessive vigor. Vegetable aliment was enjoined as the only mode of cure. The rationale from the cure to the proximate cause, was certain; but Dr. Brown discovered that the error lay in the proximate cause and of course must defeat the remedy. For during a whole year of stries adherence to the prescribed regimen, he suffered four severe attacks. In short, he says; the whole year except fourteen days, was spent between limping and excruciating pain. Upon this experience, and these facts, he constructed his new theory. Why, when he lived well was he exempted from the disease, and when dieting himself was he attacked in a manner so formidable and unrelenting? The solution of these questions opened his eyes, and led him forward to an inquiry more comprehensive.What is the effect of food, drink and the aliment which support life? They produce strength. What is their effect afterwards? Always less and less. What is it towards the end of life? So far from giving strength, they prove weakening. And finally, the very powers which support life at first, prove its destruction at last; but generally through the intervention of disease.

From this process of reasoning, he perceived that his disease was oceasioned by a deficiency and not a redundancy of blood; that debility was the cause of his disorder, and the remedy must be sought in a sustaining and stimulating diet; this he called dircct debility. Such was the success of this new practice, that for two years he had only a very slight attack; and this soon yielded to increased stimuli. He computed from these data, that the disease was alleviated in the proportion of forty-eight to one. A young gentleman living with the doctor at the same time, and suffering under asthma, in consequence of the same treatment, had only one fit in two years, instead of one every day, while he pursued the common practice. This mode of practice ne found success-
fitl, in the putrid and gangrenous sore throat, in theumatalgia, inflammation of the joints and [all chronic rheumatism, and the inflammation which attacks the brain after typhus fevers; dyspepsia, convulsions, and the diseases of children. All these, yielding to the stimulating medicine, he concluded they were asthenic. For seven years he was able to repel the fite of the gout by this mode of practice.
Led by the hand of nature, the doctor says, he walked round the whole circle of asthenic diseases, and found that they were all cured by the same retinedy, stimulahts.

With regard to the sthenic diseases, the cause and cure of which he says, nobody understood, all their symptoms were mistaken, and the practice wrong. I will, once for all, explain these terms of the Brunonian system.
Sthenic diathesis; diseased habit of body, occasioned by excess of stimuli, called indirect debility ; oppressed state of the system.
Asthenic diathesis; diseased habit of body, occasioned by a deficiency of stimul,, called direct debility ; exhausted state of the system.
The former was to be reduced by depletion; the latter by repletion. The Egyptians, in the corn country, purged and vomited themselves every month, three days in succession, notwithstanding they were the healthiest people in the world.

Dr, Brown reduced all general or universal diseases to these two forms, sthenic and asthentc; enlarged his plan, accounted for the symptoms and reduced the whole to a certain principle. An universal disease, he says, proceeds from an affection of the principle of life; but a local disease from a local injury. These three states, health, discasc, and predisposition, constituted the life, or living state of animals. From thus ascribing all diseases to excess or deficiency, he directed his remedies to the reverse states of the body, and showed that the noxious powers which excited either, were the remedies of the other. He laid down the same doctrine in regard to plants; and finally demanded, whether the medical art, hitherto conjectural ineoherent, and in the great body of its doctrines false, was not at least reduced to a science of demonstration, which might be called
the science ofe n.tfe? A question which has been antswered in the affirmative, says his biographer, by pvery one who has been at due pains to understand the doctrine.

EROWN'S THEORY.
1st. To every animate being is allotted a certain portion of the principle on which the phenomena of life depertd. This principle is denominated excitability.
2 d . The exciting powers are the external and internal stimuli. The former are heat, fond, wine, poisons, contagions; the latter, the functions of the body itself, contractibility, thought, emotion and passion.

3d. Excitement is the effect produced by the action of the exciting powers on excitability.

4th. Life is a forcet state; if the exciting powers are withdrawn, death ensues, as certainly as if the excitability was gone.

5 th. By too great excitement, weaktiess is produced, because the excitability becomes defective. This is indirect debility. When the exciting powers are withheld, weakness is also induced, and this is direct debility. Here the excitability is in excess. Ergo, when the excitability is defective, it produces indirect debility; but when the excitability is in ctcess it then produces direct debility.

6th. Every power that acts on the living frame is a stimulant.
7th. Excitability is seated in the medullary portion of the nerves, and in the muscles.

Dr. Christie has illustrated this theory of Dr. Brown, by a familiar similitude. Suppose a firc to be made up in a grate filled with fuel, not very combustible, and a machine placed before it, containing several tubes pouring fresh air upon it. Suppose another pipe, fired at the back of the grate, through which a constant supply of fresh fuel was poured into it, to supply the waste occasioned by the flame.

The grate is the human frame; the fuel in it, the matter or principle of life; the excitability of Dr . Brown and the sensorial porwer of Dr. Darwin. The pipe behind the grate pouring in fuel, is the power of the living system to regenel ate itself, or re-produce excitability ;
the air machine with several tubes, is the various stimuli, acting on the body, and the flame is the phenomenon of life.

Thus the curious and comprehensivesystem of Dr. Brown, is summed up briefly in this similitude; to which is added this further illustration: As life is a forced state, according to the doctor, it is said, where one tube of the machine pours in pure air; this signifies the highest degree of stimulants; when common atmospheric air, the common stimulants of food, drink, \&c.; and when impure air, it indicates the sedative powers, as poisons, putrefactions, marsh miasmata, foul air, stagnant water, \&cc. From these few examples, it will be easy to comprehend Brown's Theory. The more a spark is blown, the brighter it burns, and the sooner it is spent. This sage saying exemplifies what is remarked by Dr. Brown, when he affirms that the stimulating powers support life, and at the same time consume it, because they waste the excitability; therefore, the necessity of sleep, when all the exciting powers are withdrawn, to give the living principle time to accumulate its excitability.

In a very few jears, notwithstanding the opposition made to Brown's theory, it spread with rapidity over England, France, Italy, Germany, Holland, and America. Even those who rejected his doctrine, were nevertheless influenced and benefitted by his practice. It has been so with Dr. Thomson. The vapor bath was a poor attempt to devise a substitute for his method of steaming.

When Lavoisier first announced his system, the Chemists who were the most scandalized by it, found themselves obliged to reverse their whole congeries of facts and deductions. The immediate consequence was, an entire change in their opinions. They were forced to shift their foundations; and though they disdained to go over to Lavoisier, they could no longer adheire to Stahl. They were obliged to abandon half their errors, and no doubt a thorhugh lustration in medicine will be forced upon the faculty; by the curious discoveries of these latter years.

## DR.RUSH'STHEORY.

With Brown, he affirmed, 1st. Life to be a forced state.

2nd. Life, as applied to the human body, included motion, heat, sensation and thonght; these four, when united, compose perfect life.

3rd. Every part of the human body, nails and hair excepted, is endowed with sensibility and excitability. Sensibility means, the power of having sensation excited by the action of impressions ; excitability, the power of having motion excited by means of impressions.

4th. The human body is. $s 0$ formed, that if impressions be made upon it, in its healthy state, in one part, it will excite sensation, or motion, or bath, in every other part ; hence, the body is a unit ; ergo, diserse a unit.
5th. Life is the effect of stimuli acting on the excitability and sensibility, which are extended in different degrees over every part of the body.
Dr. Ruşh agrees with Dr. Brown, that life is a forced state, and the effect of stimufi. He divides these the same as Brown, into external and internal. But for the matter or principle of life itself, he adds sensibility to Brown's excitability. He will not admit with Brown. that debility is disease, but only a predisposing cause of disease.
Disease consists in a morbid excitement, and the cure of diseases consists in restoring the equal diffusion over the whole body. He blames Cullen for inducing his students by his nosology, to prescribe for the names of diseases instead of their proximate causes; and Brown, he affirms to be equally faulty, for reducing them nearly to one class, and accommodating his prescriptions to the reverse states of the body, or to that which constitutes their proximate cause.

Air, by exciting respiration, gave the first impulse of life. When man was formed, God breathed into him the breath of life, that is, says the doctor, atmospheric air; dilating his nostrils, inflating his lungs, and thus excited in him the whole phenomena of amimal, interlectual and spiritual life. And hence, life is the effect of stimuli acting on an organized.
holy.

DR. THOMSON'sTHFORY.
All bodies are composed of the four elements, carth, air, fire and reater. Earth and water constitute the solids, and air and fire, the fluids, of the body. The healehy state consists in the proper balance and distribution of these four elements, and disease by their disarrangement. All disease is caused by obstruction; the rode of cure is to remove it by diffusing heat over the system, for hcat is life, and cold is dehth. All disease is the effect of one general cause, and therefore requires a general remedy. Whatever supports the internal heat and directs the determining powers to the surface, will expel the disease, and saye the patient.
Through the long experience of thirty years Dr. Thomson thinks he has discovered those medicines and that mode of practice, which will accomplish this object. He has tried them on the most hopeless cases, and still found them effectual. Indeed such was the nature of his trials and difficulties, that he was only called in to the aid of the patient, when given over to death by the other physicians. The progress of his skill was therefore tested by a succession of the most desperate and deadly maladies.
If it be objected to his system, that the four elements composing the human body, are not a correct enumeration of primary substances, I reply that it is the most simple, obvious and ancient distribution of the primary elements. It was Aristote's division, and that of many other celebrated philosophers. Indeed, it is not long since the physiologists and chemists began to add to, the number of primary elements. From seven to nine, and forty-six, they have summed up the number at different times; but they are not now sure whether this last number should be enlarged or diminished. Indeed, they confess that the real, simple, elementary principles of matter, will never be discovered. The natural division of Thomson, made in times of old, answers all the purposes of his system, and the operations of the healing skill.
The assertion, that heat is life, is, at least, equally as philosophical as the affirmation of

Dr. Rush, that motion, heat, sensation, and thought, when united, compose perfect life.His cause of disease, being ascribed obstruction, seems to amount to the same as Dr. Rush's morbid excitement; and that cold is death, is about equal to the extinguished excitability of Dr. Brown.

The conclusion of the whole matter, is, that Dr. Brown perceived, that the systems of medicine were too complicated, and therefore uncertain and false in many of their princi. ples. He, by a close attention to facts in his own case, discovered a method of curing disease, at once simple and comprehensive, extending to all cases. Dr. Rush understood. well, the value of this new mode of reasoning, and though he has added sensibility to the system, he has not much improved it. Brown is more philisophical than Rush, for he gives the principle of life merely a name, which serves his purpose, excitability, without pretending to say what it is, whether a substance, or quality of substance. He says it is a somewhat, which he cannot pretend to explain. And this is surely better than to make life the mere effect of the united action of organiza. tion and stimuli.

Dr. Thomson might only intend, like Dr. Brown, to express by the phrase, heat is life. the unknown smewhat which he could not describe; and, that cold is death, he might only mean an effect of death. Cold, is generally considered a negative term, to express the absence of heat. Dr. Ray says, it is the effect of a condensed or cold ether, from which heat has been expelled. Plato calls it a fluid of gross particles, which presses upon, and stops the pores of bodies, exeluding heat. Life is a metaphysieal subject, and cannot be investigated by the laws of physics. This preposterous mode of reasoning has led to all the absurdities uttered on this sublime theme.

Dr. Thompson, in calling heat life has more philosophy on his side than people imagine, or than even he himself is aware of. Light, heat and fire, are only the same substance, in different states or conditions, and acting in a different manner. They are all signified by the same word in Hebrew and Greek, and also in
the Latin. "Some of the ancients affirmed, that light gare an organization, sensation, and thought, to the primitive chaos, and is the pabulum of all living things. It is the purest, brightest and most beautiful of all that we behold, of the works of the Creator." Plato,in Tirmus, asserts that fire and heat beget and govern all things. He accounts for the animal functions, from air and fire joined, acting through the whole body; fire expanding within and fire compressing without. The Abbe le Plucith says, there are but three flaids, which by their continual activity, cause all motion; these are fire, lig $h t$ air; and they are the breath of life. These active agents the heathen held to be intelligent, and the gods that govern the world. Fire and air, they call the active moving powers, and earth and water the Passive elements.
These opinions correspond with Dr. Thomson, who thinks with them, that the circulation of the blood is caused by the expanding power of heat within, and the compression of air withcul. The activity he has assigned to them 'srees with the most reputed systems of ancient philosophy. An egg cannot hateh, says $D_{r}$. Ray, without air and heat. They have abeolute dominion over all things. The circulation of the bloou is from internal heat, ind external air pressing into the lungs, they serve as a pump to draw the blood fora the heart, and the air keeps this pump in motion. The air is to the body, what the Peight is to a clock, and the heart with its orves, as a pendulum to regulate its motions.
We now perceive, from these terv examples of ancient and modern opinions, and they might be greatly enlarged, that Dr. Thomson has hot given too much importance to heat and air, in hia theory; or $i i$ he has crred, it is in great cociety, and with long established maxims of Profound reason, and careful observatior.
Dr. Thomson says, food and medicine are in harmony with each other; they grow in the same field, and are gathered by the same people. Dr. Ray remarks: we derive our food from the surface of the earth, and it als, contains our principal medicine.

In accordance with the sentiments of thit philusopher, on the beneficial results of misfortune, Dr. Thomson was forced into his career of medicine, and pressed forward tiy triumph crowned his struggles, and wealth repaid his toil; from the vale of obscurity he has risen to take his rank among the benefactors of the world.

## UNFETTERED CANADIAN.

TORONTO, JUNE, 1849.

## Continuation of the Discunstionntiven ween N. B.Wolfe, M. D. and the Ealtor. <br> LETTERI.

to robert dick esq:
Respected Sir,-The fifth No. of the Unfortered Canadian has been duly received, in which I find, you have opened the discusaion of the question :
"If the restrictive laws which now protect the medical profession, were removed, would society at large be benefitted?"

The above question was submitted to you, with my written declaration, that I was propared to sustain the negative of the argument through the medium of any press that would. grant the use of its columns. I still hold ms. self in readiness 10 make good that declaration, and if Mr. Dick is to be my antagonist, we must have an adjustment of the "Rules" that are to govern the discussion.

Your note, responsive to a note dated; August 1st, contains the following statementw: 18, " I pledge myseif to publish your productiose, so long as three doctors of your profemsion, sustaintng an honourable reputation in society can be found to sanction them." 2nd. "I shall clain the right, however, of calling upon you to sustain the affirmative after the publication of your sixth commusication, for an equal number of articles."
Now sir, have you accepted the proposition I made, and as it stands recorded in the Unfattered Canadian? If so, why have you pleced ine under the pestraints of a Medieal Board
of Examiners? What special right have they to determine whether my articles should be published or not? Their apprnbation! What right have you to exact such a compliance to a monopoly, which, if established, not only fetters the hands, but enslaves the noblest aspirations of emancipated mind! You affect a contempt for hoary-headed usages, and yet are the very first to offer an oblation at her shrine. I do not appear before your readers as the special pleader for the members of the Medical Profession. I do not address myself to them exclusively, knowing that but very few of the Faculty have had time to become dequainted with the existence of such a periodical as the Unfotterd Canadian. I do not assume the position of the apologist for any flagrancies that physicians may perpetrate, cither in a professional or civil capacity ; nor do I write, as a Physician, in the pending conroversy.

But why "sustaining an honourable position in society ?" Mr. Dick does little credit to his discrimination by noticing, in the manner he bas, a man whose moral character and position in society is not a sufficient guarantee to publish any thing ne may write, to which he may attach bis name.
" A gentleman will not insult me, and no other can."

Then, sir, as an Unfettered Canadian, I eannot arquiesce to this requirement. What asturance have you given me that an inquisitorial committee will not be as necessary to approve your articles as mine. Why react this fortification if you are to meet me in single combat! Why place the quill in my hand and the sword in yours! No, sir! we cannot sabscribe to, or tolerate, so far as our personal infuence extends, any monopoly, be it political, moral, physical or medical, and with the statesman of his age, 1 declare, " I have sworn rupon the altar of Cod, eternal hostility te every form of tyranny over the mind of man."

But, secondly, "You claim the right of calling upon me for an equal number of articles, sustaining the affirmative of the question, after the publication of iny sixth negative article."

Your claim is unjust (a) because I will not grant that special right, and (b) without my" assent no such right exists; (e) to assume such special right conflicts with my natural rights, ergo (f) the claim is usurped and must be unjust. For the philosophy of this reasoning, see Ünfettered Cunadian, No. v. p. 116, $^{2}$ cal. 2 ph. 3.

In controversies, custom has established the principle, that the parties engaged must have a mutual understanding of what they are to discuss, and how they are to discuss. I have taken the negative of the question; and to ask me to change my position, is about as "cool" as Santa Anna's request to Gen. Tay" lor, asking him to surrender the field of Buena Vista, or that "ocean of polar icebergs" which you have invited us to navigate. I promise, however, to conform to your request when it is found to be to my advantage to do so ; but, let this be understond, that "I never surrender wilhout a contest."

You now perceive, sir, thàt I object to your teto requirements. 1st. Submitting my articles to a committee of physicians for approval; and secondly, taking the affirmative of the discussion for an' equal number of articles that I may have written on the negative of the question. I would submit the following "Rules" to govern in the discussion of the question at issue,-in lien of your requirerequirements; to which, if you approve or amend so as to make no material alteration od sense ur import, attack your name, as I will attach mine.

1st. The question to be, "If the restrictive laws which now protect the medical professiols were removed, would society at large be ben efitted ${ }^{\prime \prime}$
2nd. No reflection is to be cast upon eorps editorial, or, upon the members of the medical protessions for any thing advanced by either of us as argument.
3rd. That whatever is written, shall be published, the writer alone being responsible for every thing which he may advance or quede-
4th. The readers of the Unfettered Canadian, to be the umpires, with whom the merits of the diseussion is to rest.

Jth. That when an argument is submitted to the umpires, after it has been reviewed, it is not again to be discussed or re-cited.

6th. That either party shall have the privilege of closing the discussion by giving notice to that effect, the opposite party having permission to write one article after said notice shall have been given.

7th. A synopsis of the arguments to be written out by both parties, after the close of the discussion, and published in the same number of the Unfeltered Canadian.

Signed,

> Robert Dick. N. B. Wolfe.

I will proceed in my next letter to review the article in No. V. of your publication, and I hope sir to be able to show you that your position is weak and untenable; and your readers as integrals of the community, that There best interests are consulted by perpetuating the restrictive laws "which now protect the medical profession."-I would ask for a suspension of judgment until both parties shall have been heard, and I trust that no feeling of prejudice or rancour will be permitted to do injustice to an impartial investigation of the subject at issue.

With considerations of high regard
I am respectively
Your's \&e.,
N. B. Wolfl.

Prince Albert, Reach, $\}$
Sept. 1st, 1849.

## REPLE.

Our friend err's, in supposing that we intended, or wished, to submit all his articles to a boand of inquisitors: indeed we never expected to have the least occasion to submit even one of them to such a board; feeling confident that nothing could proceed from his pen, which we could hesitate one moment to publish-what we said was designed wholly for his benefitthat he might be assured, that no cowardly advantage would be taken of the power which we hald as editor of the "U. C.", in closing its columns against his commuications, when they became, to us, unanswerabla. But surely no one will blame us for refusing to publish
that, which three respectable men cannot be found to sanction. To satisfy Dr.Wolfe, however, that we intended no monopoly-that we ask no advantage-we cheerfully aggree, to publish nothing in this discussion, which we cannot find three respectable men to sanction.

Our friend's conception, or interpretation of our claiming the right to throw him on the affirmative after a certain time, is positively so ludicrous, as to put all gravity at defiance. We have labored hard to shun the conclusion, that the Dr. really fancics, that we actually expected him to turn round, and annihilate his own positions! To take the affirmative of the identical question, the negative of which, he had labored through six articles to establish as sound and true!!! This, he calls cool as the demand of Santa Anna at Buena Vista-Cooll we can assure our friend, that we feel it to be humiliating, and mortifying in the extreme, to have such consummate folly attributed to us.

Dr. Wolfe will doubtless admit that he ought to take our positions as we state them-that he should not find fault with what he has not read -for certainly a single glance at the passage will convince him, that he has committed a gross and ludicerous blunder; as it is utterly impossible to force from it, the meaning which roused his indignation. Here it is-" $I$ shall claim the right, however, of calling upon you to sustain the affirmative, after the publication of your sixth communication for an equal number of articles; the question to be--Are the restrictive lavos which now protect the medical professiou, beneficial to society at large? Why did our friend not discover that we had inveried the sides of his question? why did he not perceive that the negative in his question is the affirmative in ours? and that if both ques tions are discussed, he who takes the negative of the first, must take the affirmative of the second, unless he abandons his own position and adopts that of his antagonist? all this our friend would have readily perceived, had he read our note with the least degree of attention ---and that we had not the most distant intention of asking him to relinquish his opinions, or to " surrender without a contest "-that we only asked him to bear the "burden of proof"
in turn with us; by allowing the question to be changed at a certain stage of the discussion, on as to throw him on the affirmative; a request which we never knew a disputant to refose. Should Dr. Wolf, however, refuse, we are quite willing to bear the burden of proof through the whole discussion, the proof being very easy, and the burden immeasurably lightor than that under,which he will be compelled to struggle. We therefore cheerfully accede © his terms, we will publish all that he may advance, or quote, for whica he can be held alone responsible. Our friend may therefore proeeed, without further delay, to execute the singular tast, of establishing the propriety of continuing to protect the Medical Profession while we can turnt back, and read in his first better, the following, attestation from his own pen,-" We cannot subscribe to, or toleratc, so far as our personal iufluence extends, any monopoly, be it political, religious, moral, physical or medrosL. And with the statesnan of his age I declare - I have sworn cpon the altar of God, etermal bobtillty to evert form of tyrany over mer mind or man.'" We are all attention, to witness the skill and wisdom of the man, who can defend, with honor, a position so novel and startling.

## MINTETIE

.p the Provincial Medical Kefgrm Cono Fention, which met in iho Cify or Fingiton, Bept. I9th, 1849 .

In purauance of the call published in the fourth number of the "Unfettered Canadian," and also in hand-bills posted through the City, ate Goanvention met as above stated, and organwed by calling Dr. S. Gregory to the Chair, and appointing R. Dick, Secretary.

The Convention thus organized, appointed Drs. J. G. Booth, E. Ash, S. Gregory, and the Editor of the "U. C.," a Cominittee to prepare a draft of a constitution, in order to faci'itate the organization of the contemplated Provinofial Medical Society; and that Proffessor Potmr, M. D., be requested to aid them by his sugsestions.

Appointed, Drs. IToward. D. Ash and I. G.

Booth, a Cornmittee to prepare businesa tor the Convention.
Adjuurned ill half past four o'clock, P. M.

## Second Eension.

In order, the report of the Committee on constitution being called, the following was duly presented.
to the members of kingiton, botanic, mediCAI, REFORM CONVENTION.
Gentlemen,-Your Committee appointed to prepare a draft of a constitu:ion, beg to report in favour of the Constitution published in the first number of the "Unfettered Canadian," suggesting the following amendments:

1st. That the name be changed, to that of the Canadian Eclectic Medieal Soaiety, as the various classes of Botanic Physicians, are now uniting their strength under this appellation; a disideratum unquestionably most desirabla on many considerations ; and one to which the name cannot fail to contribute much, being admirably adapted to the progressive character of true scientific medication, which binds every practitioner to seize upon safe and eficatious remedies, in all cases, whether new or old, irrespective of their having been sanctioned by Dr. Thomson, or by any other founder of a medical system; but further, the name "Eclectic," is very properly understood to denote that choice or selection, which is guided and determined by the fixed principles of seience; and hence in adopting the name, we do not abandon cur former hostility to the use of remedies, at war with the human constitution, but remain sill, wha، we have erer been, the same unwavering advocates of safe, simple remedial agents in the cure of disease, in opposition to the practice of the present legalized system:

2nd. That any person of good moral character, be admitted to membership on signing the constitution, and paying annually five shillings into the treasury.
3rd. That the constitution be made to edmitt of the election of as many Viee-Prestderis as there are Districts in Canaja.
4th. Also to require the election of a Recording and Correaponding Seeretary.

Yih. Also to admit of granting diplomas to individuals of good moral character, on their producing satisfactory evidence of having been known seven years asBotanic Physicians-or on their proving themselves to have been duly licensed by any respectable Medical Association, provided they evince a hearty and willing approval of our principles, and a ready and full determiration to conform to them in their practice.-Medica! Students to be recognized as junior practitioners, on their satistying the Board, that they possess the requisite knowledge of our theory and practice of medicine, with sufficient prudence and judgment, to warrant the expectation of success in their treatment of disease-requiring them to preserve in numerical order, a brief statement of their plan of procedure, in each case, fur subsequent examination.

The amendments rendered necessary by the change of the rame, your Committee deem it useless to innumerate, as such verbal alteralions can be safely entrusted to our Secretary.

Respectiully submitted,

$$
\left.\begin{array}{l}
\text { J. G. Booti, } \\
\text { J.B. Howard, } \\
\text { Rob't Dick, }
\end{array}\right\} \text { Committce. }
$$

The above report being accepted, and adopten; and the constitution duly signed by the members of the Convention, the different officen were filled as follows.
Dr. J, G. Bootr, President and Librarian. F'. S. Urquiart, Esq., Recording Seeretary R. Dick, Cor. Sec. and Treas.

Vice Presidents and Directors.
Canada East-Dr. S. Gregory, Vice President Dr. R. D. Rugg, R. McConnell, Esq., J. Manning, Esq., and Capt. Flower, Directors.
Eiastern Dist.-Rev. J. Musgrove, Vice Pres., J. Carman, Esq., Dr.A. Knowlan,Directors. Bathurst Dist.-M. McDonald, Esq., Vice Pres., W. McGee, Esq., A. Stevenson, Esq., Directors.
Johnstoron Di:t.-P. Scofield, M. D., Vice Pres., A. Parish, Esq., Dr. R. Steadman, Dr. J. Howard, Dr. Howey, Directors.
Midland Dist.-Dr. E. Ash, Vice Pres., Dr. D. Ash, Dr. J. Ash, Dr. Kilburn, Dr. Shertif, Directors.

Victoria Dist.-Wm. Smith, Vice Prea., Stephen Goldsrnith, Rev. J. Gemile, Directors. Prince Ed. Dist.-Dr. Botfield, Vice Pres.,Dr. Barrenger, G. A. Sargant, Directors.
Nencastlc Dist.-Dr. Clark, Vice Pres., Dr. Patterson, T. Clark, Directors.
Hume Dist.-Rev. J. H. Leonard, Vice Pres. T. Lawson, Esq., T. W. Anderson, Esq., J. Cummer, Esq., Dr. Hayward, Directory. Simcoe Dist.-Dr. J. Ford, Vice Pres., Dr. S. E. Philips, E. Gorham, Esq., Directors.

Vice Presidents and Directors, for the other Districts of Canada, will be appointed, as scon as the names of suitable persons are forwarded to the committee, directed to fill up the appointments for each District.
Professor S. H. Potter, M. D., Honorary Member.
The Provincial Society, being thus completly organized, the following resolutions were unanimously carried :-

Res. 1st. That the officers of this Soclety be appointed its delegates, to represent its interests and views, whenever present at any general meeting of kindred iustitutions, in the United States.

Res. 2nd. That the Vice Presidents and Directors of this Society, be earnestly requested to adopt measures, for the immetiate appointment of Committeer, of three or more, for each township, in their respective Districts, to perfect and complete our general organization; and that the Vice President in each District, be 1 espectfully requested to convene theDirec. tors residing in it, and in connection with them adopt the means proposed, for the appointment of the township committees, to conduct the local business of each Township; such as the signing ot petitions, increasing the membership of the sosiets-extending the crculation of the Canadian, \&ic. \&c. The Vice Pres. and Directors of any District, may at their meeting appoint their Township Committees, taking care to appoint a sufficient number to canvas the whole township in favor of our petitions, \&c.

Res. 3rd. That we admire the manly, independent and efficient course of the "Unfettered Canadian," and most ardently hope, that
pvery member of this association, will exer himself to extend its circulation, as the best available means of elevating the standard of Medical reform; and especially iudispensable at this crisis, as the advocate of equal privil.ges extended to all.

Res. 4th. That this association sympathises deeply with Dr. S. Gregory of Montreal in the inhuman persecution he has suffered, at the hands of the College of physicians and surgeons of that city; and we pledge ourselves to employ every constitutional means in our power, to procure the repeal of all jaws imposing tues and penalties of any kind, upon individuals for doing good; and to assert the kuenen right, and scriptural duty of every man, to alleviate physical, as well as mental suffer-ing-also to hold up to public execration, the legislator, who attempts to render illegal, the performance of an imperative christian duty, surbidding it under severe penal enactments, and further, that we will nct cease to besiege the doors of our legislative assembly, by petitions and otherwise, with the holy boldness of men, who know their rights, and are religiowsty determined to assert and maintain then.

Res. 5th. That Dr. S. Gregory be requested to furnish au account of the operation and effects, of the exceseively oppressive laws, recently imposed on the inhabitants of the Eastern section of this Province, at the request of the College of Physicians and Surgeons.

The hour baving arrived for the lecture, as previously announced, Professor S. H. Potter M.D., of the N. Y. Central Medical College, proceeded in a very happy strain, to delineate the character of the true reformer, which he executed in a masterly manner-after which, be contrasted with great eflect, the Eclectic, and the late popular system of medication; and closed with a rich variety of the most praetical and deeply interesting observations; the whole being admirably adapted to the exigences of our cause in Canada.

The lecture being closed, the following resolutions were unanimously adopted.
Res. 64. That the thanks of this meeting be tendared to Professor Potter, for his timely able, and highly appropriate address, request-
ing him, to furnish the editor of the Unfettered Canadian with a copy of the lecture for publication.

Res. Fith. That we hail with delight, the extraordinary success of our Brethren in the neighboring States, in liberating themselven so speedily rrom the unhalowed chains of Medical monopoly; enabling them, to have, alrea$\mathrm{d} y$, in full operation, no less than Seven Medical Reform Colleges rezulary organized, and legally chartered; nobly refutiog the foul calumny, that we would degrade science, and perpetuate ignorance.
Res. 8th. That, as we cannot successfully open a Medical Reform College in Canada, till all medical monopoly is completely abolished it is highly gratifying to know, that a well organized Eclectic College, chartered by the state of N . Y. is now open for the reception of Students in the neighboring city of Syracuse ; and, as the college is established upon our orn principles, and its location easy of access, we shall deem it not only our interest, but also our duty, to encourage our Students to arail themselves of its superior advantages.

Res. 9th. That the New York Eclectic Medical and Surgical Joarnal, conducted by Professor S. H. Potter M. D. of the New York Central Medical College, merits the full confidence, and cordial suppert, of the friends of cur cause in Canada, as a medium through which, they may be kept constantly apprised, of the rapid progress of our principles, now sweeping with irresistable furce over the whole American Continent; the developements of which, cannot fail to be highly useful even to the family practitioner, especially as exhibited in the clear, startling, and impressive style, of the Editor of this new, and highly valuable acquisition to our least of Medical Journals.

These measures and resolulions, having been all separately considered and discussed in the best of feeling, and adopted with great unanimity; the deliberations were closed, by adjourning. to meet in the City of Toranto, on the second Tuescay in September, 1850, at the hour of three o'clock P. M.

Robfrt Dick, Cor. Seew

## OENTRAL MEDICALCOLLEGE

 GYRACUSE N. Y.The Fall and Winter Course of Lectures in this Irstitution will commence on the first Monday in November, next, and will continue sixteen weeks. The aggregate cost of Tickets will be $\$ 55$, including Demonstrator's fee.The Graduating Class will receive the benefit ois extra instruction s from the Faculty, during hours not appropriated to the regular exercises of the College, as ofter as three times per week.

## FaCLLTY,

J. R. Eush, M. D. Professor of Special General and Pathalogical Anatomy.
S. H. Potter, M. D., Professor of the Principles and Practice of Surgery.
S. M. Davis, M. D., Professor o: Theory and Practice of Medicine and Pathology.
O. Davis, M. D., Professur of Obstetrics and Diseases of Women and Children.
B. S. Heath, M. D., Professor of Physiology and Medical Jurisprudence.
W. W. Ha ley M. D., Professor of Materia Medica, Therepoutics and Pharmacy.

* C. Linck, Ph. D., Professor of Chemistry and Medical Botany.
$\dagger$ Woostrr Beach, M. D., Emeriturs Prufessor of Clinical Medicine.

[^1]J. R. Bush, M. D., Demonstrator of Anatu. my and Surgical Prosector.
The Matriculation Ticket, \$5, atd the Graduation Fee, $\$ 15$. Any student can hate the privilege of attending Lectures in this Institution until he graduater, by the payment of $\$ 100$ in advance.

Grod board can be had at from \$1 50 to \$2 50 per week; and Students by clubbing together, can live well at an expense of from 60 to 75 cents per week.

A Student will be ramitted to the Lectures gratuitously from each Senatotial District throughout the State, by paying only Matriculation, Demonstrator's and Graduation Fees. This arrangement gives to thirty-two Students annually, the sum of $\$ 50$ each. Those of this class are to be Promising, Indigent young men of a good English education, and of a good moral character. Sons of Clergyman and Physicians will have the preference, if such apply in season. Such students are to be recommended by a Justice of the Peace, or a Judge of the County in which he resides.They will please forward their applicutivis as soon as the Girst of November, next.

The faculty being solicitous that all may enjoy the benefit of their labors, who wish, will take responsible notes on time, where persons are unable to advance the money. In such cases, ten dollars will be added to the cash price of each term.

All designing to attend, will please forwatd their names, that we may be apprised of their coming.

The following works are recommended by the Faculty :

Anatomy.-Wistar, Wilson, Qunin, and Horner.

Surgery:-Druit, Liston, Cooper, Gibson and Miller.

Theory and Practice.-Watson, Stokes \& Bell, Eberle, Beach, Howard, Smith, Curtis, and Thomson.
Physiology.-Carpenter, Williams, Dunglison, and Beack.
-Obstotries and Disease of Women and Chil-dren.-Rigby, Beach, Curtis, and Eberie.
Chemistry.-Linck, Turner, Gray and Beek.

Botany.-Earon, Bigelow, Gray and Wood. Materia Medica.-Kost, Nelligan, Wood \& Bache.
Pathclogy:-Gross, Chomel, Williston, Allison and Stille.

Auscultation and Percussion.-Laennec, Bowditch, and Watson.

Medical Jurisprudence.-Beck and Williams.

The text boohs recommended are consu'ted authoritatively, when descriptive of actual conditions, as in Anatomy, Physiology, Pathology, \&c.; but otherwise Eclectically, with careful discrimination.

The fundamental peculiarity of our doctrine in the treatment of disease is, that nothing should be used as a remedy that will injure the human constitution, and that all means used, should have a direct tendency to sustain, and not depress the vital powers.

The College will be furnished with all suitable facilities for imparting a thorough and correct course of instruction on every branch of Medical Science. Dissections, Surgical Operations, Illustrations and Experiments will be conducted in the most advantageous and instructive manner. It is the design to give Stucents advantages here, fully equal to those enjoyed at any other Medical College.

For further information respectiag the Lectares, direct a letter post paid to Dr. S. H. Potter, Sy racuse, N. Y.; or to Dr. S. M. Davis. Buffalo; Dr. Wm. W. Hadley, Rochester; Dr. W. Beach; New York City.

Notr.-Seventy-six Students have already given their names to attend the lectures, and among the number, Mrs. R. B. Gleason, wife of Dr. Gleason, Physician to the Glen haven Water Cure Infirmary, with a view to complete her medical education by attending two lerms of lectures, and obtaining the degree of M.D. A second Miss Blackwell. Syracuse. Sept., 1849.

## CAUBE OF INSANITY.

The numerous cases of insanity, or semi-insanity, occurring among literary men, has caused anxious inquiry as to the probable eause. In most cases, we believe it results from nervous prostration, brought on by the
over-use of various kinds of stimulants. It is too much the habit of literary men to seek, in noxious stimulants, to excite jaded of flagged mental power. Some resort to wine and alcoholic drinks, some to opium, and sotme to tobacco. The use of any of these artificial helps, however buoyant for the moment, is dangerous, if not fatal in the end. Whaterer tension is thus given to the nerves and brain, must, in its reaction, reduce the vital powers in ratio; so that the system is constantly undergoing an unnatural straining and relaxing, until it finally gives away. If literary men-men who use the brain more than the body-would take their stimulous in plentiful physical exercise, the steady use of cold water for bath and beverage, and abundant sleep; opium, brandy, and tobacco, woutd very soon be cast, with other physic, to the dogs.---New York Sun.

Remarks.-.-The fact is as lamentable as true, that great men are very apt to fall into most egregious errors, and commit some fatal blunder in doctrine or practice. Indeed, this fact has passed into the proverb, "Great men have faults." But why is this? Because those excessive labors which raised them to distinction, also diseased their body and brain ; and this disorders their feelings, opinions, and conduct. The mealtit of distinguished men should be their fIRsT concern, because it is the basis of all talent and all correct feeling and conduct; while disease vitiates and depraves the man, mental as well as physical. Alike to retain and to enhance their greatness, great men and women must preserve their healta. -Phrcnological Jour.
" We must adopt the Thomsonian remedial agents, or lose our practice. I have usedSteam; Cayenne, and Lobelia, and found them to be useful 1 emedies to remove disease."

PROF. M'CLELLAND.
"The poor are the best patients. God is their paymaster." Dr. boenirave.

A man laboring under acute pain from colic being asked why he did not apply for medieal aid, replied, that "he did not consider himself quite ready to die."-Thompsonian.


[^0]:    :Thus fades the systems and glory of the world.

[^1]:    *Dr. C. Linck has several years past been Professor of Analytical Chemistry in Cambridge University, Mass.; and resigns his Chair in that institution, and comes to Syracuse to settle permanently as the Prof. of Cbemistry and Botany in Central Medical College, and is author of a work on Chemistry and recommended in the warmest inanner by Cambridge and Harvard Universities as well a Dr. Liebig of Germany, his protector. Dr. L. is furnished with all necssarp apparatus and labaratory, fully prepared to do justice to his imdortant department.
    † $\mathrm{D}_{\mathrm{i}}$, W. Beach, of N. Y is the distinguished Author of numencus Medical Works of world-wide reputation. He has receutly travelled through eight or ten kingdoms in Europe, and visited nearly all the important Medical Institutions to collect information to prmoote the canse of scientific reform. He has engaged to be here early in the session with a female anatomical model, made the order in Paris, diagrams, pathalogical nrawings, sic., executed in London, and established a Dispensary and elinic for students, where lectures will be given on the diseasos of patients present, that the students may enjoy the iull benefits of his extensive research.

