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each convalescent when discharged from this afylum. The particulars of this project were given by Mr. May to the Society for bettering the Condition of the Poor, about the time of its first origin; and I think it was delivered by myself to Count Rumford, who approved of feveral parts, proposed fome amendments, and queries. Here the business has refted; but if any of your Readers wish for the whole particulars, drawings, &c. I will gladly deliver them over to him, together with any other information I may possed on this fubject.

Sobo Square, March 21, 1801. I am, your's, &c. ANTHONY CARLISLE.

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Observations on Pulmonary Consumption, and on the Utility of the Climate of Madeira for Phthisical Patients, addressed to a Physician in London. By Jos. ADAMS, M. D.

#### MY DEAR SIR,

BEFORE my departure from England I had collected notes on many fubjects, which I conceived my leifure in this ifland would have enabled me to arrange. I need not tell you what I have compleated fince my arrival; if it feems little for five year's refidence, recollect that, healthy as this fpot is, it has furnished me with fome papers. At all events, you of all others should be the last to accuse me of indolence, fince no man in the world is lefs difpofed than yourfelf to appear unprepared before the public. It is much to be wished that the author to whom you refer me, before he had made up his book on Confumption, had made clofer enquiries into what he only feems to hint, namely, the varieties of the difeafe. Perhaps, when this is accurately accomplifhed, inftead of wondering that Confumption is found in most parts of the world, we shall find even the climate of Great Britain a remedy for fome fpecies of that difeafe. Not, I will admit, where ulceration has taken place, because a more equal temperature must be necessary, that the conftitution may be as little as possible interrupted in repairing the mifchief. We have now too many proofs of the refources of Nature, to doubt her powers in healing ulcerated This, however, can only be under certain circumlungs. fances; for if fo important an organ has fuffered to fuch a de-

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gree as to prevent the necessary functions of life, the means of reftoration are cut off, and the cafe must end fatally.

That what is called Phthifis Pulmonalis is known all over the world cannot be doubted; but the true Englifh Confumption is, I believe, peculiar to cold, and chiefly to be dreaded in uncertain climates. It is worth while to mark the etymology of different countries. The Greeks gave the name  $\varphi \theta \omega \alpha \beta$ , from the idea of corruption. Hippocrates, and his fucceflors, found in the lungs of fome phthifical fubjects large collections of matter, which, as foon as the fac had any communication with the air, became putrid. Hence they confidered the difeafe a corruption of the lungs, and fancied that putrid matter from the liver and other parts, being transferred to that organ, might produce an incurable difeafe. We find Celfus, with his ufual accuracy, making a diffinction between  $\varphi \theta \omega \alpha \beta$  and tabes, confidering the former as only one fpecies of the latter.

But that fpecies of confumption from which 'originated the' term phthifis, is usually the effect of pleurify, and is very different from another with which it is confounded, and which gave rife to the idea that the expectoration of purulent matter was neceffarily fatal. This laft difease has its origin in the ramifications of the bronchia. It begins with cough and expectoration of mucus. If these continue for any time in a young fubject, there is always an apprehension left the difease should be confirmed; that is, left by frequent returns of inflammation the fecretion fhould become habitual. This danger is very much increased if the patient contracts the habit of ftraining himfelf into a cough, in order to discharge a small remaining quantity of mucus which he conceives will continue to irritate as long as it remains in the trachea, but which is in fact only fecreted by the parts to protect them from the patient's efforts, confequently in proportion to his diligence is the fecretion increafed. I have often been aftonished how little attention phyficians have paid in not admonishing their patients to suppress their cough as much as poffible. In all difeafed lungs this - fhould be attended to, but more particularly in the laft mentioned; for by this conftant irritation on a fecreting furface, ulceration is at last produced, which, when we confider the ramifications of the bronchia, may foon be fo exténsive as to prove fatal. The only writer I find in my notes who defcribes this fpecies of confumption is Chalmers, in his "Difeafes of Carolina;" it however exifts, I believe, in most parts of the world, but principally where the featons are uncertain, and the inhabitants most subject to coughs.

A third caufe of confumption is not only found in every part of the world, but is much more common than is suspected. This

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This is the only one that begins with that fhort dry cough which many writers have confidered as the first fymptom of confumptions in general. This difeafe is a chronic inflammation, or frequent habitual, though flight, inflammations of the lungs, which by repeated effusion of coagulable lymph, produces adhefions of the cellular part of the lungs, and thus obliterates their cavity, or prevents their expansion. The appearance in the dead fubject is extremely well deferibed by Dr, Baillie:\* Mr. Abernethy, by his frequent examination of the bodies of those who died phthifical, detected it fo often as to induce him to confider it one of the most common causes of confumptions. † This is, I believe, the only species of the difease-known in this isfland, if we except those from hæmorrhage and pleurify, both which are very uncommon.

Though all thefe are very diftinct in their origin and progrefs, yet in the most advanced ftages they have many fymptoms in common; indeed, excepting the purulent expectoration, which never occurs in the confolidated state of the lungs from the adhesive inflammation, the closing fymptoms of each are nearly fimilar.

But you are growing impatient to hear of Madeira. True it is, my dear Sir, we are apt to be semper ad eventum festinantes et in medias res; and if I were writing only to you, the latter ought to be passed over haud secus ac notas; but you infiss on my writing to the world; if fo, I must diferiminate what I mean by a difease before I propose a remedy.

Mr. Abernethy, in the paffage before alluded to, gives many judicious directions, by which the confumption from confoli-'dated or infarcted lungs, if you will admit to antiquated an expreffion, may be difcovered at an early period. Whenever we find the fhort dry cough with emaciation, it fhould always be fufpected; and his teft feems fufficient to diffinguish the difcafe from all others, excepting the early ftage of numerous fmall tubercles. To diffinguish these two complaints we should, in the latter, look for other figns of fcrophula; but in the former, there is a peculiarity in the caft and character of features which is very ftriking. Inftead of that fenfibility which enlivens the fcrophulous countenance, and that fanguine difpofition which fees, even in the most unfavourable fymptoms, a prospect of amendment, we find a stiffness in all the motions of the features, and of the whole body, which is always in a yery erect posture. The patient frequently anticipates his doom

\* Morbid Anatomy, Chapter of the Lungs.

+ Surgical and Physiological Effays, Part I. p. 155.

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doom with a languor and complacency, if poffible, more affecting than the unfounded hopes of the other victim. When we are fatisfied that this is the difeafe, we may, I think, without change of climate, always infure fuccefs, at leaft as long as the appetite for food continues. Exercife, by which the blood is more determined to the limbs, and occafional evacuations to anticipate that plethora which may have become almost periodically habitual, will feldom fail of fuccefs in any climate. But your patience must be by this time exhausted; I shall, therefore, bring you to Madeira.

In all cafes of tubercular or fcrophulous confumption, if, as you express it, the patient does not faunter away his time after you have advised him to leave England, we can with certainty promife a cure.—Where the lungs are ulcerated from other caufes, it remains for you to determine whether there are powers remaining in the conflitution to effect a cure, if the patient is placed in the most favourable circumstances; for though we fee many recover from a fituation which invariably proves fatal during the winter in England, yet we have also inflances in which an emaciated carcafe has been furrendered to the waves during the voyage, or arrived only early enough to be decently interred. In an earlier period of the difease there can be no fituation in the world fo well calculated for the reftoration of difeased lungs as the island of Madeira.

The valley of Tunchall is defended by immense hills from every wind but the fouth, where it is open to the fea breeze; this preferves a temperature fo even, as is unknown in any other part of the world. Our winters may be compared to your fummers in every thing but the length of days, and those fudden changes from heat to cold to which you are fubject. The thermometer with us is often fleady within doors, or varies fcarcely a degree for weeks together. During winter, its whole range is from 58 to 65; and in fummer, from 70 to 75, rarely amounting to 80, the heat being always tempered by a breeze in proportion to the force of the fun. The dryness of our atmosphere is not less remarkable; this is, I believe, of less confequence in confumptive cafes than in those which are called humoral afthma, a difease unknown in this country. For want of good hygrometers, we have hitherto only been able to judge by the absence of fogs, by the rapidity of our rivers, which have refused a nidus to all fresh water fish excepting fuch eels as can fecure themfelves under large ftones, and by our fecurity from mulquitoes and most other gnats; frogs, toads, and leeches are equally unknown. Since my arrival, I have not teen or heard of a cafe of intermittent fever; and the few dyfenteries produced by the autumn, are milder and more eafily relieved

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relieved than those in England. However, to decide the queftion beyond a doubt, I procured two of Mr. Lane's hygrometers: One of these was suspended in open Veranda exposed to the beach, and the other at the residence of the Hon. Augustus Phipps, less than a mile out of town, and in a fituation generally reputed damp for this country. By Mr. Phipps's register, which you will receive with this, it appears that the finger rarely pointed higher than two, and was most commonly lower for more than a month of our rainy feason. The other hygrometer was fo perpetually at, or near °, that the gentleman who had the charge of it, grew tired of marking its trifling variations.

This difcuffion appears to me of no further confequence, than as far as truth is concerned, till it is found that a dry air is neceffary for those who feel a temporary relief from enhaling hydrogen gas, the steam of water, and other analogous fubstances. The fact is much more to the purpole, that in all cafes of fcrophulous confumption, not too far advanced, the climate of Madeira proves a certain remedy. The only obvious caufes I can offer for this constant fuccefs are, first, the equal temperature of our climate; next, that the lungs are not irritated by any particles arifing from an open fire, or by the contraction of the fkin from a partial access of air, which artificial heat will always produce. Our roads too being most of them paved, and no wheel carriages used in the most inhabited part of the island, those clouds of dust never arise which dry weather produces in other parts of the world, which in hot climates will fometimes produce catarrh, and which are always found injurious to weak or difeafed lungs. Thefe are, I believe, the principal enquiries you wifhed to make: It is true, they are of little confequence compared to the important fact you have in view. It is, however, fatisfactory to trace probable caufes; and it may be well worth your while to try whether fpacious buildings, regularly heated, fafely ventilated, and large enough to admit of neceffary exercife, may not anfwer the purpole for fuch whole want of means, of courage, or of leifure, prevent their taking a voyage to a more genial I remain, climate.

MY DEAR SIR,

Yours, faithfully,

Madeira, Jan. 21, 1801.

J. ADAMS.

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