An account of a contagious fever, which prevailed lately at Aylesbury, and in some of the adjacent parts of Buckinghamshire / [Peter Kennedy].

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Publication/Creation

Aylesbury : W. Nicholls, 1785.

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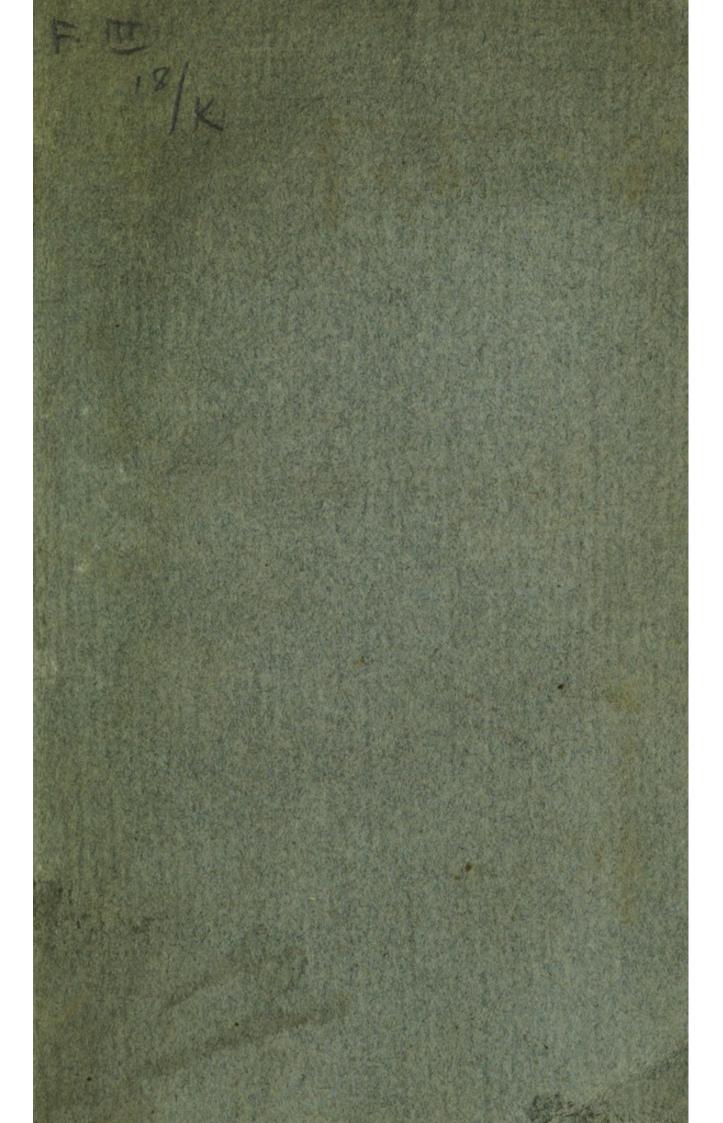
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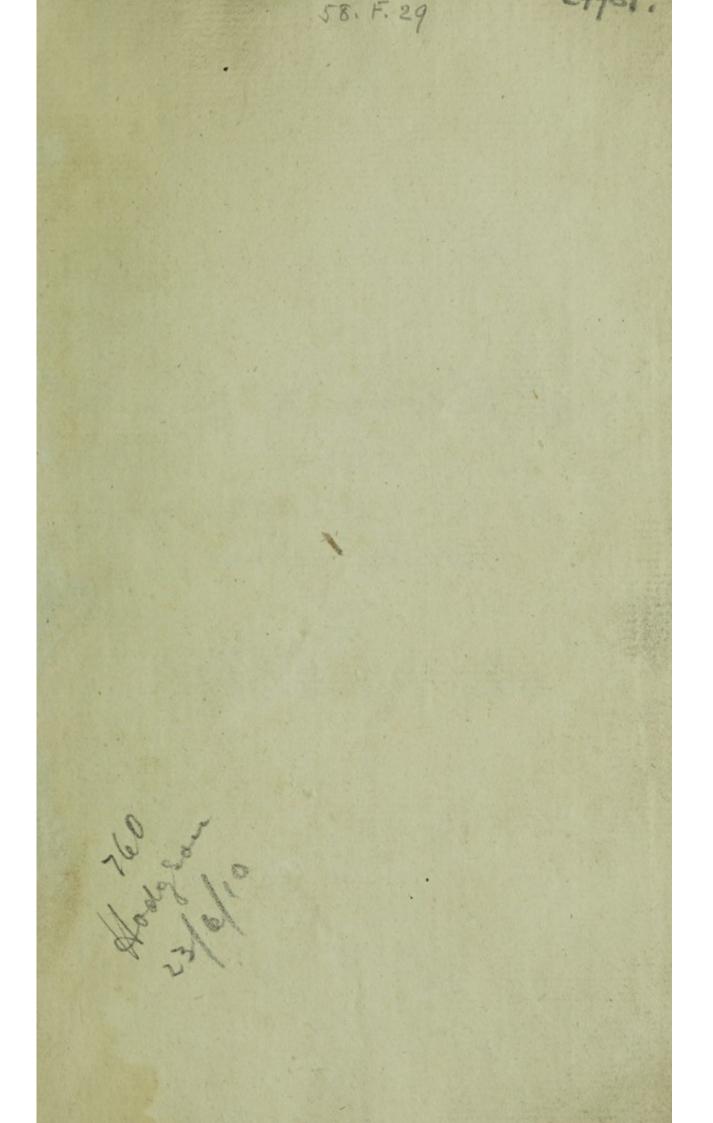
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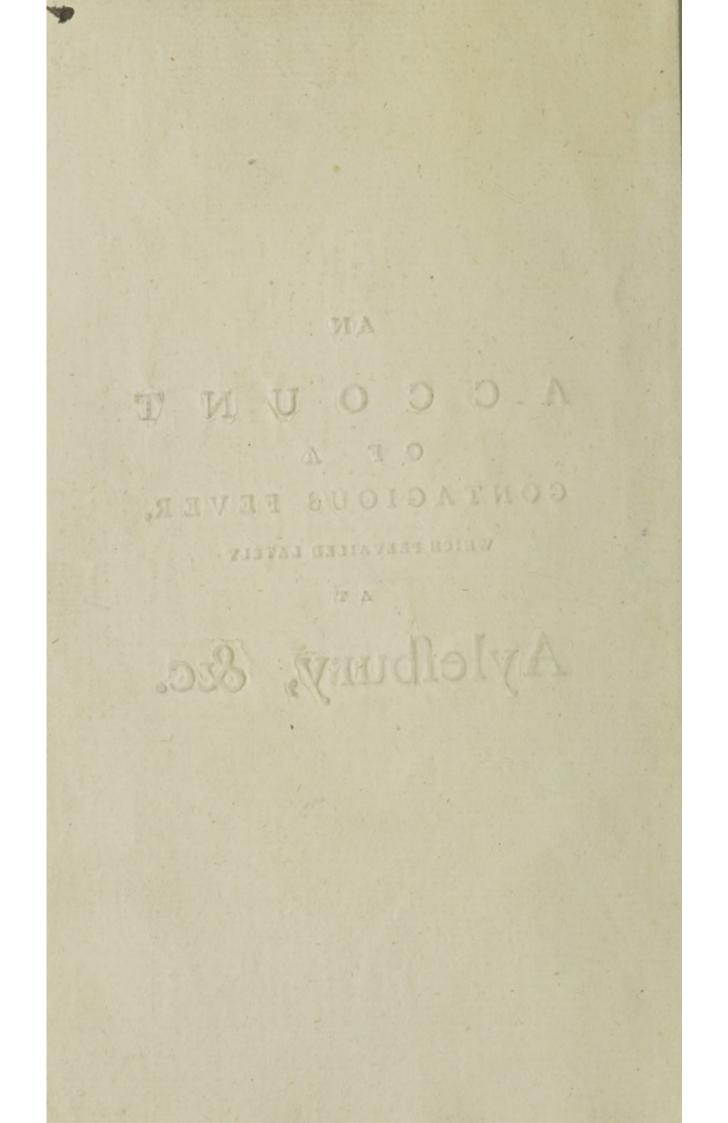
A C C O U N T of a contagious fever,

AN

WHICH PREVAILED LATELY

AT

Aylefbury, &c.



ACCOUNT

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CONTAGIOUS FEVER,

WHICH PREVAILED LATELY

T

AYLESBURY,

And in fome of the adjacent Parts of

Buckinghamshire.

By PETER KENNEDY, M.D.

AYLESBURY: Printed by W. NICHOLLS,

MDCCLXXXV.

Medicina est ars conjecturalis: neque refpondet ei plerumque non folum conjectura fed etiam experientia. CELSUS.

TUU

Natura repugnante nihil medicina proficit: magis tamen ignofcendum eft medico parum proficienti in acutis morbis quam in longis: hic enim breve fpatium eft, intra quod, fi quod auxilium non profuit, æger extinguitur: ibi et deliberationi et mutationi remediorum tempus patet. IDEM.



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PREFACE.

THE following account of a difeafe, which fpread a general apprehenfion throughout this town and the furrounding parts of the country for feveral miles, and not without foundation, is the refult of a ftrict inquiry into its rife and progrefs, and of an attentive observation of the symptoms, which accompanied it, in its different periods. I have defcribed the general plan of treatment, which I followed, without entering into a minute detail of each particular cafe, which wouldoften prove a tirefome repetition of nearly the fame fubject. I have likewife declined giving an account of every particular circumstance, which, when feveral urgent fymptoms preffed all together, made me determine upon a choice among these indications. There are fometimes calculations depending upon an evaluation and relative comparison of the different data in a difeafe,

THE PRFFACE.

difeafe, which may fuggeft an indication of treatment; although they may be more eafily underftood than deferibed, and can be learnt only by a habit of obfervation. The medical reader, who must be aware of the difficulty of committing fuch things to paper, will therefore excuse this omiffion: and as to the other readers, into whose hands this pamphlet may chance to come, an attempt to execute fuch a detail would prove uninteresting, if not unintelligible to them.

If it were neceffary to add any thing to what has been already faid and written on the danger, with which crowded prifons are attended, not only to the unfortunate people confined therein ; but to the community at large, the mortality occafioned by a diftemper, which took its rife among the prifoners in this town, would help to fhew, how much a reform in the regulations of fuch places is wanting : and if the following pages fhould awake the attention of those whose province it is to watch over a matter of fuch confequence to the public, I fhall think my labour fufficiently rewarded.

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ACCOUNT OFA

AN

CONTAGIOUS FEVER,

Which lately prevailed at AYLESBURY.

CHAP. I.

Of the Rife and Progrefs of the Contagious Fever.

THE County Jail in this town, having been uncommonly crowded by the increafing number of convicts, which government was at a lofs how to difpofe of abroad, towards the end of the war, and by the aditional increafe of prifoners, which generally happens, after a peace, A few of them were feized, about the beginning of *April* laft, with a fever of a very B bad bad kind, which was by degrees communicated to the greater part of the other prifoners.

In a little time afterwards, fome of the inhabitants in the town were taken ill, with a fimiliar kind of fever, which fpread itfelf daily more and more, till at length it became fo general, as fometimes to attack every individual of entire families, either fucceffively one by one, or two or three at a time.

Its infectious character became obvious, by its effects on those, who, from their fituation, were more immediately exposed to the contagion. Several of those, who nurfed patients ill of this fever, were foon taken with it themfelves; and two apothecaries, who had attended fome of them, were also feized with it. The one fell a victim to it, about the fifth day of his illness, and the other, after having narrowly escaped the fame fate, communicated the difease, to every one of his own family.

The contagion foon fpread itfelf to fome of the adjacent parts of the country, and it was communicated to the people, in the work-houfe at *Winflow*, by fome prifoners, who had been releafed from this jail.

There

There was no noxious alteration obferved in the fenfible qualities of the air, to which the origin of this fever could be attributed. The feafons were, in general, confidered as healthy in places, which had but little intercourfe with this town; and even in this very place, fuch families, as were upon their guard, againft a near communication with people or things, likely to propagate the infection, remained free from the fever, during the whole time it prevailed.

It proved fatal to feveral in the jail, and the mortality it occafioned among the inhabitants of this town, and fome of the neighbouring parts of the country, was likewife confiderable. It was not however fo great, as it is generally thought to have been, confidering the numbers of those who fell ill of it.

Whenever a difeafe, of a dangerous nature, becomes very general, people are apt, either through terror, or mifinformation, to exaggerate the number of deaths occafioned by it : they are inclined to fuppofe, that almost every body who dies, during the time, that fuch a difease prevails, has been carried off by it; without confidering the great variety of other diforders, to which B 2 mankind mankind is fubject, in the ordinary course of life.

I cannot afcertain the precise numbers, that died of this fever in Aylefbury, and in the other parts of the country, where it prevailed. Upon looking haftily over the parifh register of this town, it appeared, that the deaths, which happened here, during the time that this fever continued, were confiderably greater, that the average number of deaths, in the fame fpace of time, ever fince the year 1742.* But upon confidering, that a comparison founded on a calculation, carried fo many years back, must unavoidably be fubject to inaccuracy, on account of the difference, which in that number of years, must have happened, in the annual fate of population in this town: I confined a more minute enquiry, to thefe last ten years past, during which, I have been informed, no meterial difference can be fupposed to have taken place, in that respect; and I have found, that the number of deaths,

* That year proved very fatal to the inhabitants of this town, owing to the fmall-pox prevailing at the fame time, with another fever, of a malignant kind. A note inferted in the register mentions, that in the course of that year, no lefs than 148 were carried off by the fmall-pox alone.

during

during fix months, from the appearance of this fever, was more than double the average number, during the fame time, from the year 1774, to 1784; which increase of mortality cannot, for the reasons mentioned, (page 3.) be attributed to any other cause than to this diftemper.

The fever abated gradually of its violence, in the jail, after the number of prifoners had been diminifhed, and the different rooms and cells thoroughly cleanfed and purified, by proper means.* It likewife abated confiderably, among the inhabitants of the town, about three months after its first appearance, both as to the numbers that fell ill of it, and the degree of mortality, with which it was attended; but it foon raged again, with increased fury, and continued until towards the middle of October, when it appeared to cease altogether.

* Besides the attendance of Mr. Hayward, junr. Surgeon to the jail, the advice of Dr. Parfons, of Oxford, was obtained, concerning the general plan of treatment; and the means of putting a stop, to the farther progress of the difcase among the prisoners.

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Of the Symptoms of the Contagious Fever.

THIS fever corresponds, in the general complexion of its fymptoms, with that, which has been deferibed by medical writers, under the name of the jail, camp, or hospital fever, on account of its having been frequently obferved, among people crowded together in fuch places.—Several of those, who from their near and frequent communication, with people actually labouring under the disease, were more exposed to the infection, faid that they knew, at what time they received it, by the infupportable vapour and stench, arising from the patients, while they affisted in moving them in their beds.

On others, the first impression was not fo manifest: they complained of loss of appetite, and fickness at stomach; of head-ach, and irregular chills; but they were not fo ill, as to be unable to attend their business, for a few days, before they were obliged to take to their bed.

In

In fuch cafes as came under my observation, the difeafe generally began with irregular fhiverings, naufea and vomiting; fucceeded by great heat, and thirst; a quick, and in general a fmall pulfe; although during the first days, it was fometimes full and ftrong .- A diarrhoea, of a very offenfive quality, foon appeared, and often lasted during the greatest part of the difcafe ; and in a few inftances, where this did not happen, a conftant tenefmus was observed in its stead .- The patients complained of great pain in their head and limbs, and a delirium very foon came on. - The white of the eyes was very red, and the countenance ex. hibited a heavy flupid look, fimilar to that of a perfon recovering from intoxication : there was fomething befides in it, which was more eafily underftood than defcribed by one accuftomed to fee it .- Comatofe fymptoms fometimes appeared; but the fleep was interrupted by frequent fighs and complaints. The patients were very reftlefs and uneafy, and could not be kept long, in the fame position in bed: when asked the reafon of this uneafinefs, they very often could not attribute it to any particular cause .- The. flate of the tongue was not conftant, being in fome

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fome patients covered with a thin whitifh and fhining fur. In others it was fcarce different from its natural appearance, and it very feldom exhibited that brown parched look, which is frequently obferved, in many other fevers of a bad kind. In the progrefs of the fever, it fometimes feemed to be contracted from the apex to the root: it was with difficulty the patient could put it out, for infpection, and the voice was inarticulate, and fcarce intelligible.— The urine was generally high coloured, and depofited very little fediment, even in the decline of the difeafe.

About the fifth or fixth day, the fkin generally appeared covered with fpots; nor were the hands, arms or neck, although frequently expofed to the cold air, free from them. ——— Thefe fpots were, for the moft part, of a florid colour, and very fmall and clofe together; but they were fometimes of a purple colour, and were of a larger fize, and about half an inch diftant from each other : in a few cafes, there was a mixture of both thefe kinds together. —— The eruption fometimes continued on the fkin, during the greateft part of the difeafe; but it oftener difappeared almoft entirely in three or four days, and and fometimes appeared again and difappeared alternately, two or three times, in the course of the difeafe.— It never rose above the surface of the skin; although it sometimes appeared to the eye, as if it had.

In a few inftances, a fwelling of one of the parotids, and of the other adjacent glands, on the fame fide of the neck, appeared in the advanced flate of the fever, and was attended with difficulty of fwallowing.

This laft fymptom was fometimes obferved without the fwelling of thefe glands; and upon infpection there feldom appeared to be any ulceration, or confiderable excoriation on the fauces; but there was generally a great rednefs of thefe parts.——In the progrefs of the difeale, the patients were fometimes teized with a troublefome cough, attended with very little expectoration.——Several of the patients became deaf in the courfe of the difeafe, and continued fo until the end.

There was an increase of the fever, in the evening, and a remiffion, in the morning; but C these

CILLA P.

these alternate exacerbations and remissions, were not so diffinctly marked, as in many other continued fevers. And they were sometimes more easily discovered, by the difference in the degree of coma, or delirium, and of the restless, and heat of the skin, than by any considerable difference, in the state of the pulse.



CHAP.

CHAP. III.

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Of the Prognostic.

HE prognostic, in this fever, was subject to very great uncertainty .- In most other fevers, the fymptoms, which affect the different functions, generally encrease in intensity, for a certain number of days, until they come to their greatest height, or acme. And in cases, where the disease terminates favorably, their violence decreafes by degrees, until at length the patient is left entirely free from fever. But in fatal terminations, the unfavourable fymptoms encrease with the progress of the difease, and nature loses daily more ground; until at length the fymptoms, . which announce a fpeedy diffolution come on, and death closes the scene. By this means, an attentive and experienced obferver, has an opportunity of forefeeing, with a great degree of probability, what the iffue of the ftruggle, between the efforts of nature and the difeafe, will be.

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But

But the progress of this fever, was often fo rapid and irregular, and the appearance of fymptoms, which announced the impending diffolution, fo fudden, and unexpected; that the principle of life, was, as it were, fuddenly fuffocated : for in fome inftances the delirium, fubfultus tendinum and convulsions came on fo rapidly, that the patient was carried off in eight or ten days, or fooner. In other inftances, the fever continued twelve or fifteen days, or longer, without being attended with the ufual forerunners of imminent danger : when convultions, hiccup, difficulty of fwallowing, fyncope and other alarming fymptoms coming on fuddenly, the patient was carried off, without that gradual fucceffion of fymptoms, which ufually precede the fatal termination of other fevers. When the difease terminated in a favourable manner, the delirium, diarrhœa, and head-ach, began to decrease about the third week, and the other fymptoms gradually mending; the patient was at length quite free from fever. ---- Thofe who recovered, were reduced to a great ftate of debility, and were a long time regaining their ftrength.

CHAP,

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CHAP. IV.

Of the Caufes of the Contagious Fever.

THE refemblance between this fever, and that which broke out in the jail, * joined to the circumftance, of its having appeared fo foon after the latter had been difcovered, to be of a contagious nature, leaves no room to doubt, but that the contagion ipread itfelf at first, from the people in the jail, among the inhabitants of this town and neighbourhood, by means of the intercourfe which took place between them.

As to its origin in the jail, I conceive but two ways of explaining it: the first is by suppofing, that the contagion might have been accidentally carried there, by people fent thither,

* Mr. Hayward, affured me, that he perceived no material difference, between the fymptoms of the fever, which prevailed among the prifoners; and of that, which raged, among the inhabitants of this town and neighbourhood. from other infected places. It is well known, that immediate communication with people actually labouring under an infectious fever, is not neceffary to produce it in others. The feeds of infection may be carried to a great diftance, in cloaths, or other vehicles; and they may, after a length of time, communicate the difeafe, as effectually in this manner, as when recently emitted from infected people.⁺

The fecond, and which I think the moft probable manner of accounting for it, is, by attributing it to the air, which had been contaminated by the effluvia of a number of people, pent up in too narrow a fpace, and who cannot be fuppofed to have paid much attention to cleanlinefs in their perfons or cloaths; nor perhaps to the frequent admiffion of fresh air into the chambers. ‡ The effect of the air thus contaminated by human effluvia, in producing difeases

+ It is related in the works of a very celebrated phyfician, that the plague was communicated by fome villains in *Germany*, feveral years ago, to numbers of people, by thefe means. But it might, perhaps, be improper to make the process, by which this was done, generally known.

‡ There is a ventilator in the jail, which has been out of repair, and unfit for ufe, a long time. of this kind, is founded on fo many repeated obfervations, as not to admit of the leaft doubt.

It would be foreign to my purpofe, to inveftigate either the manner, in which a fever, of this kind is originally generated, by the caufe abovementioned; or to endeavour to account for the manner in which, when it has been thus produced, the effluvia of a perfon, labouring under it, operate in producing a fimilar difeafe in other people, by mere infection, and without the affiftance of the caufes, by which it was at firft generated. Thefe are queftions, which, although they might, perhaps allow an unbounded fcope for ingenious fpeculation; would, in my opinion, afford but very little room for experimental enquiry.

I look upon the contagious effluvia, to be a poifon *fui generis*, very different, in their nature, from fuch other poifons, as come under our obfervation; and as the theory, even of the latter, is involved in very great obfcurity; that of the former must be fubject, to ftill greater difficulty; as it relates to a fubject, of too fubtile a nature, to come under the cognizance of our fenfes, and is connected with operations

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operations of the animal œconomy, probably of too hidden a nature, for human penetration to come at, in a direct manner. Any attempts to explain them by analogy, with the phænomena, obferved in fermentation; or with any other property of inanimate bodies, would prove vague and unfatisfactory.—We are therefore confined, merely to a knowledge of the fymptoms, they produce, when they have been applied to the

human body.

The averfion, which people had, to fuffer the bodies of their deceafed relations, to be opened, deprived me of the opportunity, of making any obfervations, on the ftate of the different cavities and vifcera, after death.—I regret this the more, becaufe, as fome of the patients, who died, expired at very different periods, from the others; from the fourth or fifth day, to the third or fourth week of the difeafe : anatomical infpection might probably, have afforded a more fatisfactory knowledge, of the comparative ftate of the parts, in thefe feveral ftages; than can be obtained in difeafes, which are more uniform and regular in their duration; and in which, diffection, for that reafon, fon, only exhibits a view of the morbid ftate, which took place after the difeafe had lafted feveral days, and often leaves us in uncertainty; as to the condition of these parts, in the earlier ftages thereof.

The prejudice, which people in general, entertain against confenting to a proposal of this nature, proves no small impediment to the progress of physic, by depriving practitioners of an advantage, which might throw some light, on the obscure nature of several diseases.*

* It must, indeed, be confessed, that in some cases, anatomical inspection would prove of little or no use in leading to a knowledge, either of the cause, or the feat of the disease. The principle of life is sometimes destroyed by causes, which leave no visible trace of their action, on any particular part of the body; but in the greater number of diseases, that end in death, some one or more of the inward parts shew, upon examination, evident signs of the morbid impression.



D CHAP.

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CHAP.V.

Of the Treatment of the Contagious Fever.

Y first care, in the treatment of this fever, was to recommend the ftricteft attention to be paid to the correction, and frequent renewal of the air in the chamber, and to cleanlinefs about the patient. A proper regard to these particulars is useful in every fever; but more especially fo, in fevers of this kind, in which the air being contaminated, by the conftant fupply of contagious effluvia, from the patient's body and evacuations, renders the difease more malignant : and likewife exposes the family and attendants to a greater danger of being infected. - The floor and walls were therefore, frequently fprinkled with a decoction of rofemary, pennyroyal, or other aromatic plants, in vinegar; or with camphorated vinegar. The veffel containing thefe ingredients was kept constantly boiling in the room, and the air was impregnated with an agreeable

able perfume, by fhutting the doors and windows now and then, and burning frankinfenfe, or a lump of fugar; and in the intervals of thefe fumigations, the air was allowed to pafs freely, through the chamber, by keeping the door and a window open during the greateft part of the day. The patient's hands and face were frequently wafhed with vinegar and water; their linen and fheets were fhifted as often as it was found neceffary, and the foul cloaths and faces were immediately removed out of the room.

The debility was fo predominant, and the progress of the difease in general, so rapid and alarming; that it would have been imprudent, to trust so far to the mere efforts of nature, as to remain an idle spectator, and wait in hopes, that a spontaneous solution of the sever might point out a suture imitative plan of treatment, best calculated to remove the difease.

On the other hand, I knew of no antidote capable of correcting, by any fpecific property, the noxious quality of the infectious miasma, when received into the body, and thus nipping the evil in the bud.—I was for these reasons, obliged to confine myself to such a plan, as I thought D 2 best beft calculated to obviate the fymptoms, according as they appeared; and I endeavoured to modify the treatment, in fuch a manner, as to adapt it to the different indications that offered, in proportion to their degree of urgency.

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When the patients complained of naufea and giddinefs, I ordered a vomit of emetic tartar, or ipecacuanha, which fometimes brought up a great deal of corrupted bile; and likewife operated by ftool. At other times, it only brought up a very fmall quantity of lefs offenfive bile, or infipid phlegm: and when, from the effect of the vomit, I had reafon to fufpect, a confiderable quantity, of foul humours, in the ftomach and bowels, I directed the evacuation, both by vomit and ftool, to be kept up, by fmall dofes of emetic tartar, repeated every third or fourth hour, until I judged that they were pretty well cleared of their contents.

As the fkin was, for the most part, very hot and parched, I ordered the fame preparation, * in still fmaller

* Emetic tartar may, in my opinion, be managed in fuch a manner, as to produce every advantageous effect in fevers, that can be obtained, from James's Powder; and as fmaller doses, and at longer intervals: and I recommended a plentiful use of warm diluting drinks, with nitre; or other neutral falts. But I seldom observed that free and copious perspiration, which is generally produced, in other fevers, by these means. Sometimes I likewise directed bricks made red hot, and immersed in boiling water, to be applied, wrapt up in flannel, to the soles of the feet, but without much effect.

The head-ach and delirium being accompanied with great redness of the face, and white of the eyes, and indicating a confiderable determination of the blood to the veffels of the brain, and its membranes. I endeavoured to make a powerful revultion from these parts, by leeches applied to the temples, by the frequent application of fomentations, with cold vinegar to the head; and at the fame time, warm poultices of bread and milk to the feet. I fometimes substituted finapiss instead of the poultices: and when these different means proved ineffectual, I ordered

as it is a preparation, which can be procured at a much cheaper rate, and is, for that reafon, lefs liable to be adulterated: I generally give it the preference; unlefs the patients, or their friends, fhould place their confidence in the latter; which is fometimes the cafe.

blifters

blifters to be applied to different parts of the body; but I have not found their application attended with that fuccefs which fome medical writers have observed in these kinds of fevers. They were more ferviceable in cafes, where the delirium was attended with flupor and coma, than where it was of the furious kind. In fome of these last cases, they were evidently detrimental, by encreasing the irritabillity, already predominant in the fystem, and where the delirium was attended, with tremor of the hands, fixed eyes, and total want of fleep: the patients found much more benefit, from the fomentations abovementioned; and from faline draughts, joined to opiates, and liquor anodyn miner Hoffm. ---- By these means, a refreshing sleep was procured, from which, they generally received, a calm of fome hours duration.

When the pulfe, during the firft three or four days, happened to be full and ftrong; and accompanied with head-ach, rednefs of the face and eyes, and great heat on the fkin: I directed nine or ten ounces of blood to be taken from the arm; but in a day or two it grew weaker, and the artery funk under a light preffure of the fingers. This circumftance detered me from a repetition of the operation; operation; except in cafes where fome urgent fymptom increafed to fuch a degree, as to threaten immediate danger. In one inftance, of great pain in the head and breaft, with a fudden increafe of difficulty of breathing; I ordered bleeding fo late as the fourteenth day of the illnefs, after fomentations, blifters, and other means had been ufed to very little purpofe; and I obferved that both thefe fymptoms were confiderably relieved thereby. The difeafe, notwithftanding, continued above a fortnight longer, and the patient, being quite exhaufted of ftrength, recovered with much difficulty.

The blood drawn, in this fever, was generally covered, either with a green, or a yellowifh buff, of a very ftrong confiftency, and did not fhew the appearance of diffolution, which has been fuppofed by many, to be the conftant attendant of fevers, with petechial eruptions. In one patient in particular, it was fo thick, that very little could be drawn, at the firft bleeding; and the operation being repeated the next day, fcarce a fpoonful came away. The ferum was generally of the fame colour, with the crafamentum.

When

When the fever was nowife diminished by these means, and that the debility increased; I ordered mixtures composed of Julep e Campbora, spirit Mindereri and fal nitri, with the addition of Confest Alkerm, or some other warm ingredient, and for common drink, wine whey, or barley water, with a little wine.----Thefe drinks were acidulated with lemon juice .---- I like-wife allowed a little pure wine, either plain or mulled, and directed it to be repeated, according to the state of debility, and to the fuccels with which the first trials were attended : and I fometimes added occafionally, a few grains of Sal Cornu Cervi to the above mixtures. The pulfe by thefe means generally increafed in ftrength; although feldom in frequency; and a general moifture, was for the most part, produced on the fkin.

As foon as I perceived a remiffion of the feverifh fymptoms, I ordered the bark : either in fubftance, or in decoction, according as it agreed beft; to be given every two or three hours, alternately with the above mixture : and even when the remiffion was not clear, if the debility increafed much, and that the ftools became more colliquative and offenfive: I did not hefitate to prefcribe it moderately acidulated with fpirit of vitriol; I likewife directed their common drink to be acidulated with lemon juice, or fyrup of vinegar; and recommended the ufe of China oranges, or of the ripe native fruits of the feafon.

If the purging was increased by the bark, (which was fometimes the case) I joined Confect Cardiac, or Confect Damocrat along with it.— But when the evacution was flopped by these means for twelve or fourteen hours, or when it happened to cease fuddenly of its own accord; particularly in the earlier stages of the fever: I remarked that the quickness of the pulse, the heat of the skin the rest essential delirium were considerably increased thereby.

I likewife remarked, that in fome inflances where there was no diarrhœa; or where, after having continued eight or ten days, it was totally ftopped, or very much checked, a tenefmus, or almost constant inclination to stool, was observed in its stead; and by the frequent repetition of contraction, and pain in the bowels, contributed very much to weaken the patients, and to fink their spirits.

I at first recommended mucilaginous drinks; fuch as barley water, with Gum-Arabic and ftarch; or the Decotum Album. Mucilaginous clyfters, were likewife given, in order to take off this irritation .- But as thefe means were often ineffectual, I ordered as much Manna, or Sal Epfamensis, as was fufficient to procure two or three ftools, for two or three days, fucceffively. And having observed that these evacuations did not weaken the patients, near fo much, as might be apprehended, confidering the flate of debility, to which they were already reduced: I ordered the fame laxatives to be repeated, every other day; or oftener, if neceffary; until the tenefmus was entirely removed, or confiderably diminished : and these evacuations were sometimes followed by a vifible, although flow amendment, in the general flate of the other fymptoms.

From these circumstances compared together, I was led to think, that although the diarrhœa was not attended with that speedy and decisive relief, which characterizes *Critical Evacuations*, strictly fo called; it nevertheless partook more of that character, than any other evacuation, which was observed in this fever. And in the future future treatment of the difeafe, I was particularly cautious of checking it too much; but fuffered it to continue, within fuch bounds, as I thought confiftent with the patients flrength; without difcontinuing, at the fame time, the medicines, and other means abovementioned.

I muft however obferve, that neither the fpontaneous, nor the artificial evacution, however copious of the ftomach and bowels, did, in any inftance that I know of, cut off the difeafe in its firft ftage.—Nay in a few inftances, where people fufpected, that they had received the infection, emetics were given as foon as they found themfelves ailing; and they likewife took a few grains of Sal Cornu Cervi in wine whey, for two or three nights fucceffively, notwithftanding which they were obliged to take to their bed in a few days, and underwent the ufual courfe of the difeafe.—So quick and irrevocably did the infectious miafma feem to produce its effect, when once received into the fyftem.

In one inftance, where the ftools and breath were extremely offenfive, and where the proftration of forces was very great; I tried what fixed air might do, by ordering a diluted folution of E_2 falt falt of wormwood in water, to be drank immediately after each dofe of the decoction of bark, acidulated with fpirit of vitriol: But I did not obferve any material difference in the flate of the fymptoms after it, except that the patient complained of a preffure and uneafinefs on the ftomach.

When convultions or *fubfultus tendinum* came on, I ordered *Musc*, *Campbire*, and *Liquor Anodyn Miner Hoffm*, in large dofes, which produced a general warm moifture on the fkin, and fometimes relieved the above fymptoms; but at other times they availed but very little.

In two inftances where these fymptoms appeared, early in the difease, the patients were put into a warm bath; and one of them asterwards wrapt up in a sheep's skin, stripped off the animal, as soon as it was killed. In both cases a copious sweat was procured, and the patients received some temporary relief; but the difease, in its subsequent stages, did not seem to be in any respect milder, than in cases where the bath had not been used.

In one of these patients, there was at first, a spasmodic

fpafmodic firiciture of the Sphinster Veficæ, attended with a retention of urine, and great pain.— A confiderable quantity of high coloured urine was drawn away, by means of the catheter for three or four days fucceffively, but the convulfions foon afterwards became general, and the patient was carried off in a fhort time.

The cough, which was for the most part dry, became fometimes very troublefome, in the advanced flate of the difease; and when it was not relieved by the use of the *Decostum Pestorale*, or fuch like drinks, I found it necessary to order fmall doses of opiates to abate it.

The patients fometimes complained of difficulty in fwallowing; and when this fymptom was accompanied with an offenfive ftench on the breath and faliva, and that the eye could difcover no ulceration, or confiderable excoration on the fauces, I fulpected that there might be an ulceration fituated farther back; either on fome of the parts that ferve for the purpofe of refpiration, or deglutition. I ordered the throat to be wafhed with gargles, compofed of red wine, bark and fpirit of vitriol, and directed the patients patients to fwallow a little of these gargles frequently, and as slowly as they could, The steam of a decoction of aromatic herbs, in equal parts of vinegar and water, was also conveyed to these parts. And in one instance there soon appeared an expectoration of purulent matter, of a very offensive quality.

But when this difficulty of fwallowing was attended with a fhining rednefs on the fauces, and without an offenfive fmell on the breath or faliva, I recommended the use of cooling gargles, made with barley-water, vinegar, honey and nitre

In a few inftances, which occurred of a fwelling of the parotid, and the adjacent glands, the tumor foon terminated by refolution; except in one patient, in whom it continued hard and painful, for feveral weeks after his recovery.— It was attended with head-ach, and with a numbnefs, and almost total lofs of fensibility in the parts on the fame fide from the fwelling, as far as the Symphifis maxillæ inferioris.—A blifter having been applied to the numbed parts, with very little fuccefs, I directed a caustic to be laid on the tumor, and a constant drain to be kept gpen open by means of proper irritating applications. And I remarked, that when the fuppuration was diminifhed, by the healing up of the ulcer, the pain in the head, and numbnefs were confiderably increafed : and that the repetition of the cauftic relieved thefe fymptoms again. It was therefore repeated as often as it was neceffary, and by the occafional application of poultices, and the help of a few faline purges, the tumor gradually fubfided ; but the parts have not yet quite recovered their feeling ; and the head-ach is perceived at times, although not near fo violent as before.

The deafnefs, which was fometimes obferved in this fever, did not feem to claim any particular attention, either as requiring any material addition to the ufual plan of treatment, or as affording any certain ground whereon to eftablifh a prognoffic. It was fometimes a concomitant of the difeafe, whether the patient recovered or died.

I met with only one inftance, in which the functions of the brain were fcarce affected. This Patient was covered almost from head to foot, with large purple spots, intermixed with an eruption tion of fmaller ones of a florid colour. The parotid, and the neighbouring glands, on onefide of the neck were fwelled; and the patient was reduced to an extreme ftate of debility, by a dyfenteric flux, of a most infupportable fmell. The flux being checked by opiates and the bark being afterwards given with wine, the patient recovered contrary to my expectation.

It is not a little remarkable, that this fingle favourable fymptom fhould have been fufficient to counterbalance the train of bad fymptoms, which were obferved in this patient. And it feems probable, as far as can be inferred from one obfervation, that when the difeafe proved fatal, it deftroyed the patients, by exerting its effects chiefly on the brain. Having made no anatomical obfervations on the bodies of thofe who died, I can fay nothing pofitive in confirmation of this conjecture. But it appears to me to bear an aditional degree of probability, from the obfervations of a very eminent phyfician, in fimilar fevers. *

* The late Sir John Pringle opened the bodies of fome of those, who died of the *camp or hofpital fever*, when he attended the army in *Germany*; and he found evident marks of inflammation, or fuppuration, which was often of an ichorus quality in the brain, or the cerebellum.

In cafes of extreme debility, where the patients feemed unable to withftand the violence of the difease much longer, I had recourse to the frequent repetition of volatile Salts, Spirit volat aromat, or fuch other medicines as were capable of giving a powerful temporary ftimulus. Topical ftimulants were alfo frequently applied to the noftrils, and fomentations with hot vinegar to the pit 4f their ftomach.

By the frequent repetition of these means, the vital powers, which had almost ceased, were again excited, and the patients fometimes recovered contrary to my expectation. At other times when they were in the very agonies of death, they were again revived, fo as to take notice of their friends and the other objects around them, and obtained a refpite of fome hours, till at length the remains of life were fo exhaufted, as to be no longer fusceptible of the impression of the most powerful stimulants, either internal or external. *

* I have fometimes observed, in the treatment of difeafes, that when the fymptoms, which are confidered as the usual forerunners of death, have made their appearance, the nurfes and attendants relax in following fuch directions Several of those who recovered, were afterwards exposed to the contagion, by their continual

directions as are calculated to keep up the cealing remains of life, on account, they fay, of the inutility of prolonging the agonies of death, when the patients are fuppoled to be past hopes of recovery : and under this idea they fometimes fuffer them to languish feveral hours, if not fome days, without administring any thing effectual tows ids their relief. But from fome inftances, which have occured to me on former occafions, I make no doubt, but that by this remiffnefs, fome lives have been loft, which might have been faved .---- It is difficult to fay to what degree the powers of life may be fupreffed without a poffibility of their being recalled. There are inftances of patients in whom life appeared to be nearly exhausted ; nay fome of whom were fuppofed to be actually dead, and who have nevertheless recovered and lived feveral years afterwards.-----I have been an eye witnefs to the recovery of children, to all appearance ftill-born, by perfevering in the timely application of the means calculated for exciting the vital principle: And I have been informed at Rome, by people of unqueftionable veracity, of an inftance of a coachman there, who was fuppofed to have died of a violent fever, but while they were carrying him to the place of interment in an open coffin, as is the cuftom in that country, he flewed figns of life, and being carried back to his houfe recovered again, and is, for ought I know, ftill alive :- In a word, how many inflances have there been of late years of drowned people, in whom the figns of life feemed to be totally extinguished, who have neverthelefs been refcued from the grave,

tinual communication with those, whom they themselves had infected: but I have not obferved that any of them took the diforder a fecond time.

A relapfe was likewife very uncommon in this fever. I met with only one inftance of it, in a patient, who had taken the difeafe by affifting to lift another ill of it out of his bed. The firft imprefion of the infection on him, while performing this office, was fo ftrong, that he faid, (to ufe his own words) he thought himfelf poifoned, by the vapour which he then breathed and fwallowed. He immediately took a vomit, after which he continued to attend his bufinefs, about

grave, by the means adopted by the Humane Society? So nice, fometimes, is the equilibrium between life and death! ——It is therefore the duty of a phyfician, even when he perceives his patient at the approach of death, to infift on a ftrict execution of fuch directions, as he judges beft adapted to fpin out the remains of life as long as poffible. There is no knowing what fortunate effort nature may make, fo long as there is a breath of life left, particularly in cafes, where the progrefs of the difeafe has been very rapid, and the appearance of mortal fymptoms, fudden and unexpected. And if he fhould fucceed once in a hundred times, his exertions will be fufficiently compenfated by the latisfaction of having recalled a fellow creature to life.

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a week, being unwilling to fubmit to confinement in bed, or in his house : although he complained of being very ill, and appeared at times to be delirious. He came at that time to confult me, when I advised him to take to his bed immediately, and ordered him another vomit, which produced a copious evacuation both ways, until the liquids taken to help the operation appeared to come away, fuch as they were drank. In a day or two he was covered with fpots, fubfultus tendinum and convulfions, particularly of the muscles of the face, were observed; and a train of fome of the other bad fymptoms mentioned in the general defcripton of the difease * came on. The general plan of treatment mentioned above, was adopted; except bleeding, which from the ftate of the pulfe did not leem to be either neceffary or fafe, and about the twelfth day after he took to his bed, he feemed quite free from fever, and continued fo for three or four days: when through his own imprudence, he took cold, by quitting bis bed too foon, and going to another room and bed, where he would fuffer himfelf to be but thinly covered. He foon became feverish and light-headed. The parotid gland on one fide of the neck fwelled

* See Page 7, &c.

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led a little, but the tumor fubfided in a day or two: notwithftanding my endeavours to bring it forward by warm irritating poultices, with a view of having it opened by a cauftic.

The delirium and reftlefsnefs now increafed to fuch a degree, that it was with difficulty the patient could be kept in bed, and the other bad fymptoms increafing apace, while his ftrength daily decreafed, he died about the fourteenth day after his relapfe, in fpite of every means I could devife for his recovery.

I must observe, that although the patient feemed free from fever during a few days, as was mentioned before, there was something nevertheless attending the disappearance of the feverish fymptoms, which made me somewhat uneasy about his situation.

The ceffation of the fever happened more fuddenly than was ufual, and without that gradual amendment in the fymptoms, which is generally obferved in fafe terminations of fevers.

The patient feemed to be paft all hopes of recovery from the third or fourth day after he took to his bed, until about the twelfth day, when when the delirium and coma left him almost fuddenly: the pulfe appeared calm and regular, although the skin felt very rough and dry, and was at times colder than it ought to have been. The patient himself, after the sudden disappearance of the alarming symptoms, was so confident of his recovery, that he applied himfelf to look over his books without the least concern about his situation. But this confidence was changed into the greatest despondency after his relapse.

CHAP.

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Of the Prevention of Contagious Fevers.

T is obvious from the means, by which contagious fevers are communicated, that the most certain method of preventing them from fpreading would be to institute a fort of quarantine, by cutting off all communication between the public and the fick, and their neceffary attendants, within the distance at which the contagious effluvia are capable of exerting their power* and by avoiding every thing, which may

* This diftance is probably different in different contagious difeafes, and perhaps modified by the ftate of the atmosphere, and by the different directions of the currents of air : but I am of opinion that the effluvia of people ill of the *Jail Fever* do not, in general, extend their activity to any confiderable diffance, as it is observed that in towns and villages, where such a fever happens to appear; such families, as avoid a very near communication with people actually ill of the dieafe, and with every thing which may be likely to be a receptacle for the contagious feeds, generally escape it. And it is also observed that even in hospitals, where this difease makes its appearance; the propagation thereof is very often prevented by separating those who first fall ill of it from the other patients, and by allotting to them their separate attendants. be likely to contain any of thefe effluvia : while at the fame time, proper means are used in houses, where these diseases prevail, to correct the contaminated air, and to purify every thing about the patient, which may ferve as a receptacle for the contagious feeds. * But as a rigorous adherence to fuch reftrictions would often prove of very great inconvenience to the ufual intercourfe of people with each other, a ftrict compliance therewith cannot be expected ; except in times, when the power of the contagion is fo great, and the examples of mortality fo frequent, as to terrify people into a voluntary obfervance thereof; or to render it neceffary for the police of the country, to make proper regulations for that purpofe.

People therefore, who during the time that fuch difeafes prevail, are exposed to the danger of being infected, should have recourfe to fuch means as tend to prevent the contagious effluvia from taking effect.

* This is beft effected by fumigating the chambers and furniture, the bed and bed cloths, the wearing apparel &c. with the fmoke of ftrong fires, on which tobacco, charcoal, brimftone or arfenic have been laid; and by washing the boards and wainfcoting with hot vinegar, and the plastered walls with hot lime. The public is much indebted to Dr. LIND, for having published his observations on the efficacy of these means. These Means may be reduced under the following heads.

Iff. Such as contribute to ftrengthen the conflitution. (as every thing which weakens it difposes people the more easily to receive contagion) The chief of these are as full and invigorating a diet as the ftomach can digeft with eafe, a moderate use of red wine, or (where people's circumstances will not allow this) well fermented malt liquor of a good body, bitters and aromatics, fuch as gentian root, feville orange-peel and Peruvian bark infufed in either of these liquors; or in brandy, and taken two or three times a day between meals, the cold bath, friction with a flefh-brufh and moderate exercife. But fatigue as well as excels in victuals or drink, fhould be avoided, as they debilitate instead of strengthening the constitution.

2. As fear difpofes the body to receive contagion, and as the difeafe would be attended with a greater degree of danger, if people fhould chance to fall ill, while the mind is thus oppreffed; it will be neceffary to conquer the prejudice which commonly prevails, that few of those who

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are exposed to the danger of infection escape it, and that difeases of this kind are always attended with confiderable mortality.

It has been mentioned above, that the effluvia of people ill of the jail fever, are not capable of exerting their activity at any great diftance from the fources from whence they arife, (fee the note to page 39) unlefs they fhould be carried in cloths or other vehicles, (fee page 14) and I believe the fame may be faid of contagious fevers in general. But it will be proper to let people know, that even within the diftance of their activity, thefe effluvia cannot produce their effect, unlefs the body to which they are applied is predifposed to receive their impression, and that the conftitution of men is often not difpofed for that purpole, although we are not fufficiently acquainted with all the circumflances, upon which this difference in conflitutions depends, to attempt a fastisfactory explanation of it.

As to the danger, with which contagious difcafes are attended, it appears by the different histories which we have of them in different countries, that their degree of mortality bears no proportion to the extent of the contagion: or in in other words, that a difeafe may'fpread itfelf by contagion, to great numbers of people, although it may be attended with very little mortality: people therefore, fhould not give way to too great apprehension of danger while fuch difeafes prevail.

3. It will be right to infpire people with a proper confidence in the efficacy of certain preventatives—The means which I think most deferning of confidence as preventatives are such things as hinder the contagious effluvia from finding their way into the stomach and lungs, or such as expel them from the body before they can have time to produce their effect.

For this purpole when people go into houfes where contagion prevails; or into crowded places, where they may run a rifk of meeting perfons, lately recovered from fuch difeafes; or who may be likely to carry any of the contagious effluvia about them in their cloaths, or otherwife, they fhould avoid fwallowing the faliva or the mucus fecreted in the noftrils. They fhould chew fpanish pellitory, cloves, camphire, ginger, or fome other warm pungent substance, capable of increasing the fecretion of the faliva, which they G_2 substance for the faliva or the found should frequently spit out. They should likewife take fnuff, or where common fnuff difagrees, a powder composed of equal parts of betonica marjorane and cubebes. ftimulating gargles, fuch as equal parts of vinegar and water with a little of the flour of muftard feed may likewife help to wash away any of the contagious particles, which may happen to attach themfelves to the fauces and throat, and they may also be ferviceable if fnuffed into the noftrils. Smoaking tobacco may be of fervice, both by the increase which it occafions in the fecretion of the faliva, and by the property which it poffeffes, of correcting the tainted air in infected places. (fee the note to page 40) Camphorated vinegar and thieves vinegar are likewife confidered as preventatives if they are kept applied to the mouth and noftrils, by means of a fponge or handkerchief.

The advantages with which the application of blifters has been often attended in the treatment of the plague, and fome other contagious fevers, made fome phyficians fuppofe that fores produced by blifters, fetons, or iffues might be a preventative against fuch difeases: but this inference does not appear to be just, and I am of opinion

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opinion that when fuch means are recommended, it fhould be rather with a view of infpiring people with a fhare of confidence in them, than from an opinion of their poffeffing a real preventative virtue, in any other refpect.

Various other things have been recommended as preventatives, fuch as amulets, necklaces, &c. composed of different fubstances, and although the virtues attributed to the greater part of them are founded in fuperstition, or ignorance; they may nevertheless be of fervice, if people entertain a favourable opinion of their efficacy; but they may on the other hand prove hurtful, by encouraging people to expose themselves rashly to unneceffary danger.*

If notwithstanding the means recommended above as preventatives, those who are exposed to the contagion should feel any any of the fymptoms, which denote that the contagious effluvia have been received into the body, such as

* It is not indeed an eafy matter to fortify the mind fufficiently with relofution against danger, by confidence in any preventatives whatfoever, and at the fame time to recommend prudence to people, who are in the way of contagion, as fuch a caution might create a diffidence in the efficacy of these preventatives, which would tend to counteract the purpose, for which they are designed.

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fhiverings, ficknefs at flomach or head-ach: it will be proper to have immediate recourfe to an emetic, as it appears from the teftimony of very refpectable phyficians, that contagious fevers have been often prevented by this means in nurfes, and other attendants employed about the patients; although in the few inflances in which I have had an opportunity of trying them in the fever, which is the fubject of this pamphlet, they proved ineffectual. (fee page 27)

Sudorifics are ufually recommended after the operation of the emetic, with a view of preventing thefe fevers; and in conformity to general practice I have prefcribed them, although without fuccefs: nor is it likely that the contagious effluvia can be carried by their means from the ftomach and bowels, to the furface of the body, without exerting their affimilating power on fome of the fluids. I am rather of opinion that in cafes, where the fever is prevented by the above means, the expulsion of the effluvia is effected entirely by the emetic, and that the chief advantage of fudorifics confifts in their helping, along with the emetic, to remove the feverifh fpafm, which takes place on the fkin : and I am the more inclined to this opinion, by confidering, that they are generally given along with large quantities, of warm diluting drinks.

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SUPPLEMENT.

While this pamphlet was in the Prefs, the Monthly Review for last month, (Jan. 1785,) came into my hands; in which I read an extract of a work, entitled, "Appendix to the State of the Prifons in England and Wales. By JOHN HOWARD, LL. D. F. R. S. containing among other subjects, the following remarks on the Jail Fever, as the result of the Author's observations during his frequent journies.

" I F it were afked, what is the caufe of the gaol fever? it would in general be readily replied, 'the want of fresh air and cleanliness.' But as I have found in fome prisons abroad, cells and dungeons as offensive and dirty as any I have observed in this country, where, however, this diftemper was unknown, I am obliged to look out for fome additional caufe for its production. I am of opinion, that the fudden change of *diet* and *lodging* fo affects the *spirits* of new convicts, that the general caufes of putrid

" putrid fevers exert an immediate effect upon " them. Hence it is common to fee them " ficken and die in a fhort time, with very lit-" tle apparent illnefs. Convicts are generally " ftout robuft young men, who have been ac-" cuftomed to free diet, tolerable lodgings, and " vigorous exercife. These are ironed, and " thrust into close offensive dungeons, some of " them without ftraw or other bedding; in " which they continue, in winter, fifteen or fix-" teen hours out of twenty-four, iu utter inactivi-" ty, and immerfed in the noxious effluvia of " their own bodies. On this account, the gaol " diftemper is always observed to reign more in " our prifons during winter than fummer; con-" trary, I prefume, to the nature of other putrid " difeafes. Their diet is at the fame time low " and fcanty; they are generally without firing; " and the powers of life foon become incapable " of refifting fo many caufes of fickness and " defpair."

I readily agree with the ingenious author, in thinking that the above caufes contribute along with the want of fresh air and cleanliness to produce the Jail Fever, by disposing the body the the more eafily to feel the effects of these last causes. They may therefore be ranked like every thing else that tends to debilitate the body, or to fink the spirits among the remote causes of this Fever. But without meaning in the least to lessen the merit which the Author has so deservedly acquired by his publications, I cannot help observing that some of the reasons mentioned in the above quotation do not appear fatisfactory.

I cannot conceive why convicts in foreign prifons fhould not be affected in their fpirits. by the fudden change of diet and lodging, and by the other circumstances inseperable from their fituation in a dungeon, as well as people in a fimilar predicament in England. It is not to be fupposed I prefume that the former are better off in the treatment they receive than the latter. But without having recourse to what the author observed in some of the foreign prifons, which he vifited, he might, I make no doubt have obferved, even in this country, that the Jail fever prevails fometimes very much in fome prifons, while it is unknown in others ; although equally crowded with convicts and other prifoners, and equally exposed to the operation of the other caufes, by which he explains the production of the difease.

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If therefore I may venture to give my opinion on this fubject, the difference, which is obferved in the above refpect, may be accounted for in fomewhat a more fatisfactory manner, by the accidental difference in the conflictutions of those, who happen to be confined in fuch places.

The general caufes of difeafes are not fufficient to produce their effect, unlefs the body is fit by a certain inexplicable difpofition in the conflitution, to receive the imprefion of thefe caufes. This difpofition is very different in different people, fome being eafily affected by the caufes of certain difeafes, which could make little or no imprefion on others.* If therefore among an hundred perfons confined together and exposed to the operation of the caufes, which originally

* This dipolition of temperament or *Idiofyncrafy* is I believe fometimes conftant and inherent in the natural conflictution of men, and at other times variable and depending upon fome temporary and inferutable alteration in the flate of the body. Thus there are inflances of fome people, who during the courfe of a very long life, have never taken contagious difeafes, not even that very contagious difeafe the fmall pox; although they had been very frequently exposed to the danger thereof: and there are iaffances of others who after having been repeatedly exposed to the fame danger escaped the difeafe for feveral years; but were at length feized with it at an advanced period of life,

originally produce the Jail Fever, there should not happen to be any of a conftitution fit to receive the impreffion of these causes, they will all continue free from the fever. But if on the other hand, there should happen to be even one individual among the number, of a conftitution difposed to receive the impression, he will not only fall ill of the difease himself, but will likewife communicate it to fome of his fellow prisoners, unless the intercourse between him and them be cut off in time. And if by neglecting this precaution, any of the others fhould take the difeafe, they in their turn becoming new and diffinct fources of infection must necessarily spread it more and more. For I am of opinion that by far of the greater part of those who fall ill, take the difease by infection from those, who happen to ficken first, rather than by the power of the caufes which originally produce it; and that those, who thus receive it by infection, might have withftood the power of the original causes of the difease and have escaped it altogether, had those who were first feized with it, been feparated in time from the others.

With regard to the Gaol Distemper being always gbserved to reign more in our prisons during H 2 winter winter than fummer, It is an affertion, which I make no doubt but Mr. HOWARD muft have had fufficient foundation to advance, during the courfe of his inquiries into this fubject. I fhall therefore only obferve that the diftemper in the Gaol of Aylefbury, was an exception to that general obfervation, as it was first obferved in April, and ceased in October following.

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