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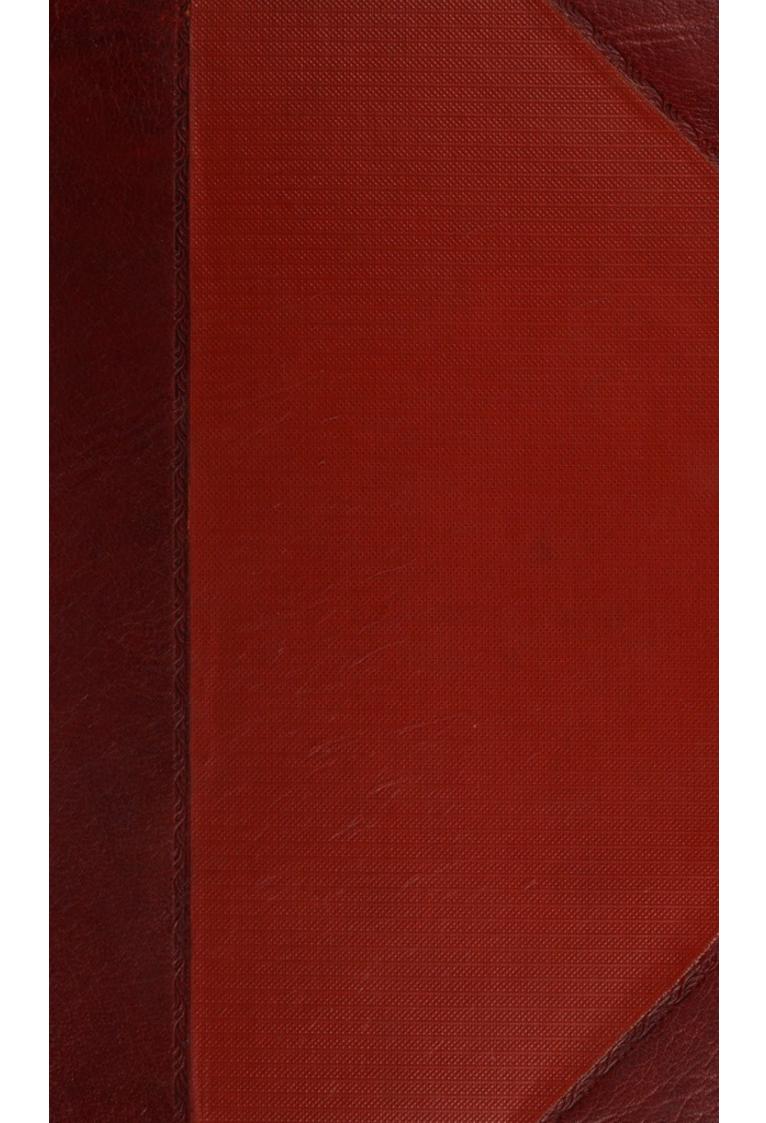
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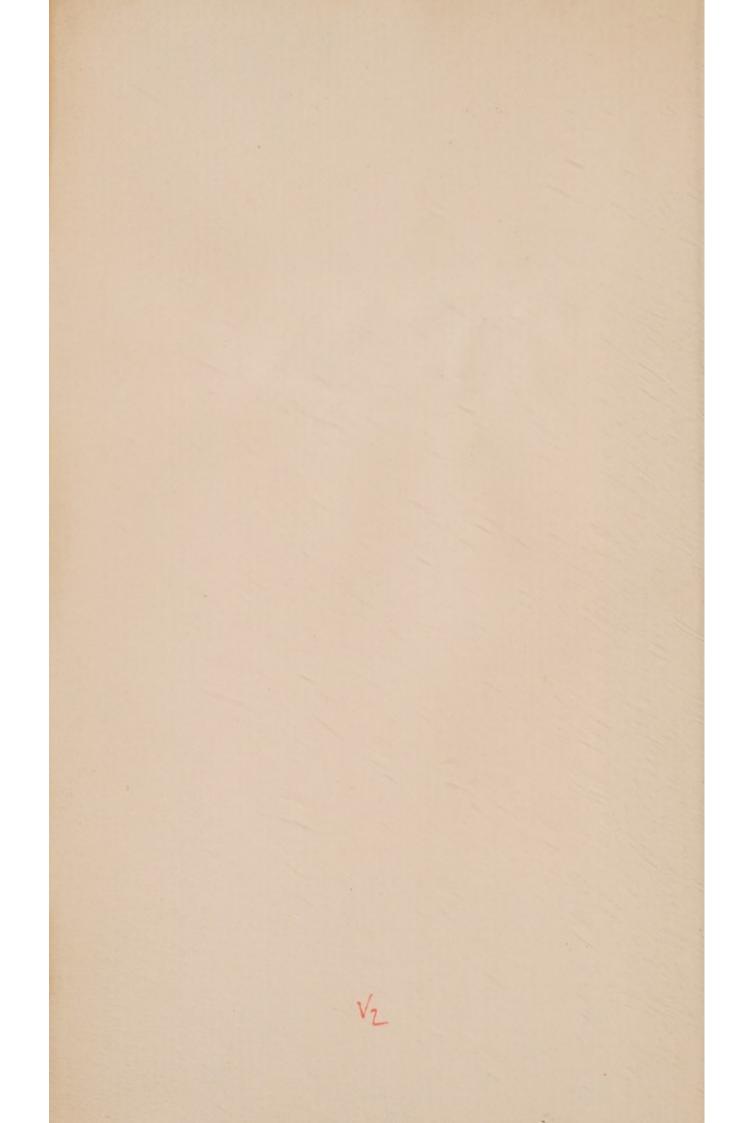
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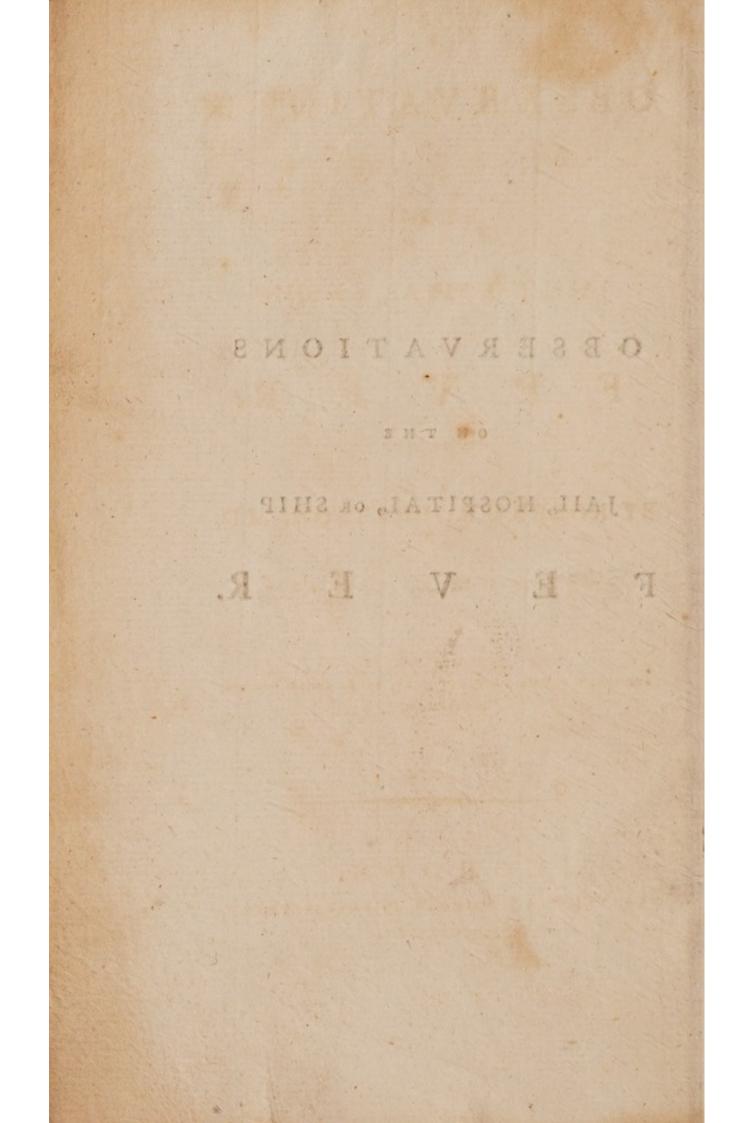


OBSERVATIONS

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JAIL, HOSPITAL, or SHIP

FEVER



OBSERVATIONS

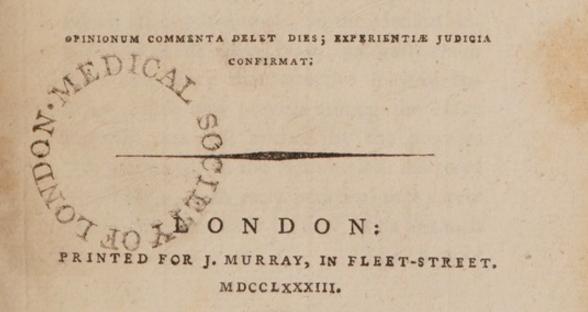
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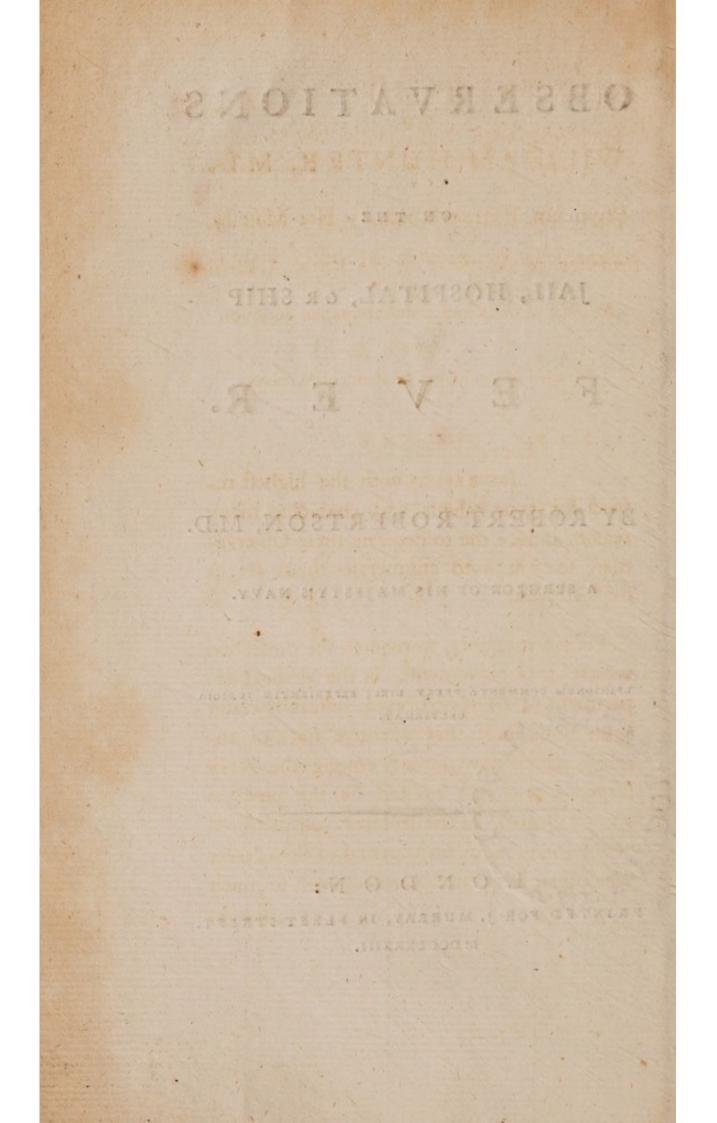
JAIL, HOSPITAL, OR SHIP

FEVER.

BY ROBERT ROBERTSON, M.D.

A SURGEON OF HIS MAJESTY'S NAVY.





WILLIAM HUNTER, M.D.

TO

Phyfician Extraordinary to Her Majefty,

Professor of Anatomy to the Royal Academy,

Member of the Royal and Antiquarian Societies,

AND,

Member of the Royal Academy of Sciences.

SIR,

IMPRESSED with the higheft refpect for your talents and character, many reafons induce me to dedicate these Observations to you :---to enumerate them might displease you.

Permit me, only, to requeft the protection which all improvements, in the Medical department of the Royal Navy, naturally claim from You, fince that attentive fpirit of enquiry, which now prevails among the Navy furgeons, was firft excited by the precepts you inculcated, in the lectures you delivered before them, at an early period of that career which you have fince purfued, with fo much honour honour to yourself, and fuch fignal advantage to mankind.

Be pleafed, alfo, to accept my most grateful acknowledgements, for the many favours you have condescended to confer on me.

I am, SIR,

Your much obliged,

Most obedient, and Most humble Servant,

ROBERT ROBERTSON.

Kingfton, Portfmouth, May 17, 1782.

PREFACE.

MPORTANT as the facts are which we A have stated in the following Observations, they will not, I fear, in the opinion of fome readers, be thought conducive to the improvement of Medicine; and there are others, by whom Diaries and Reviews of Sick Lifts, and of the Weather, are confidered not only as dry and infipid reading, but altogether ufelefs in the Practice of Phylic. I must beg leave to inform those gentlemen, that the Observations were collected and published to ferve mankind in general, and the Navy in particular; and for the information of fuch readers as think no circumftance trivial, which leads to fo definable an object : nor their time ill spent, when employed in extricating themfelves out of the mazes of prejudice, and intricacies of mifleading theories, thro' which experience only can direct us on our way to truth. Without that, we must continue implicitly to follow the steps of those who have

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gone

gone before us, by fervilely adopting their maxims and practices, which, in many inftances, were founded on ill-grounded theory; and thus end our days, without having once dared to think for ourfelves, or to benefit fociety.

Let those, however, who diflike the first part of the Observations, pais over to the second, in the perusal of which, *curiofity* may sometimes, perhaps, excite them to recur to those passages of the former that are alluded to.

To render the fubject as clear as it is important, has been my ftudy; and fhould I, unfortunately, be thought to have failed in attaining this end, I hope it will be generoufly imputed to the nature of the fubject, and the great difficulty of performing it—a talk fufficiently arduous for the ableft writer.

The Obfervations are arranged fomewhat differently from the Phyfical Journal, and I have not defcribed any other difeafe than the fever. An Introduction was thought neceffary to precede the Reviews and Diary, which make the firft part; and the Defcription of the Fever, with the various ways in which we were obliged liged to treat it, and fome tables, that I hope will be agreeable, if not useful to the reader, fill up the fecond.

Without comparative views of different practices, the fuccefsful never can be diffinguished from the unfuccefsful :-But when those are minutely and faithfully stated, no room is left for disputing which ought to be preferred.-Whoever is in possession of those advantages, and will not profit by them, must be obdurate indeed.

Many proofs of the doctrine advanced in the course of the Observations, which I have fortunately collected in a very extensive practice, fince these were near ready for the press, obliged me to add a Third Part, that I trust will require no apology for giving the reader a little further trouble. Mine, which has been far greater, will be fufficiently compensated, should they happily impress the mind with conviction of their importance.

The characters made use of in the Meteorological Observations, are as follow :

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CHARACTERS.

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-, denotes a calm; * light airs; * *, frefh breezes; * *, gales; * * * *, ftrong gales; v variable; ft b, from, to, by, viz. from NW to SW by S; p, full, and n, new moon; c, clear; cl, cloudy; ch, changeable; h, hazy; f, foggy; o, light fhowers; o o, fhowers; o oo, hard fhowers; o o o o, heavy rain; d, dew; b, hail; f, fnow; t, thunder; l, lightning; f, froft.

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INTRO-

San Joseph Carry Tabling and

IT is the opinion of fome gentlemen, who have read my Physical Journal, that the limits, within which it was kept, are too confined to render it an object of general attention, or use-How far this opinion is well or ill founded, time will shew-Should mankind be difposed to treat it harshly, all that I might urge in its favour would fail to recommend it -- But when the extent of an African and West India voyage, and how frequently this was performed, are duly confidered; when the great affinity of the difeafes of all hot climates, which comprehend no trivial fpace; and when the little difference which probably can be requifite in the treatment of fuch difeafes are well attended B

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attended to, I imagine this opinion will lose much of its force, as well in speculation, as in practice-more especially should the dea of the great fimilarity there is in all fevers (not arifing from local inflammation) which is fortunately begun to be received by fome of the most eminent physicians, be generally adopted.+ Certain I am, that all the obfervations that I have hitherto made of fevers, afford the ftrongest testimony to prove this doctrine, as may be feen by comparing the fevers defcribed in the Phyfical Journal, with the defcription of the ship fever, in the following Obfervations. ‡ Doctor Millar advances much in favour of the Journal when he afferts, that bark will cure all the ideal variety of fevers, and thinks a comparative view of the methods of the management of the African and West Indian fever, with the treatment

+ See Dr. Lind's new edition on fevers and infection, eap. 2. fect. 2. p. 264, 265. and Dr. Millar's observations of the prevailing diseases in GreatBritain, particularly in the army and navy; together with a review of that of other countries, and arithmetical calculations of the comparative fuccess of different methods of cure.

\$ Part 1. chap. 1. fect. 1.

of

of the ship fever, and the different success of those methods, as stated with fidelity in our Observations on this fever, confirm his doctrine.

Be the fate of the Journal as it may, fuch objections are not applicable to these Observations on the ship fever, or infection; an evil confined to no particular country or climate, but extending its fatal effects as far as we have either society or commerce—An evil wherein the interests of mankind are involved, —He therefore who labours to promulgate this fact, to detect the public evil under all its infidious appearances, and to render it less destructive than it has too often proved hitherto, is, at least, a well-wisher to fociety.

In ftating those Observations I have not formed or advanced any hypothesis respecting infection, but from experience have endeavoured to establish fome positions which, if attended to, may be useful in guarding against, and checking that enormous source of diseases and death, as well as in curing the ship fever.—A close attention to the fever for

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about two years on board of his Majefty's late thip the Juno, employed in America; + vifitations of holpital, and other thips; befides private practice, have furnithed me with this experience.—And nothing can be more evident to me, than that the fever was every where effentially the fame—the difference of the fymptoms arifing merely from the conflitution of the patient; from the accidental ftate of the body when it was infected; from the various circumftances they unavoidably then lived under, more effecially the climate and feafon; or from the different methods in which they were treated.

The politions which I endeavour to eftablish are,

First, That fevers are often infectious on board of ships, and likewise on shore, when there is no suspicion of infection-from whence great mischief arises to society.

Second, That the ship fever may be detected by duly attending to the following Ob-

+ And on board of the Edgar two years.

fervations

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fervations in general, and more particularly by those fymptoms which we have termed diagnostic; and the description in part 2. chap. 1. sect. 1.

Third, That Peruvian bark far excels all other remedies, hitherto extolled for curing this fever.

Whoever attempts to introduce the leaft innovation into the practice of a fcience profeffed and practifed by men who, from their indefatigable studies to ferve mankind, have become eminent, must reflect that he will require a feries of well grounded facts, if not demonstration to support him.-Should he be a young practitioner who defigns the innovation, it will become him to act with good manners, and with deference to authority stamped with the public fanction unlefs fuch authority can be proved to be contradictory to experience-the only teft to be regarded in the practice of physic. Knowing therefore, that in a work of fuch importance, hear-fay evidence, or an ipfe dixit will have little weight, I have, as far as it was practicable, introduced arithmetical calculations; and where thofe

those could have no place, I have confined myself to a plain relation of facts.

But before we proceed, it is neceffary to inform the reader, that *infection*, throughout the following Obfervations, applies to the jail, the hofpital, and the fhip fever only and as we are well convinced that thefe effentially are one and the fame fever, and are cured by the fame remedy, bark, we fhall use the term *fhip fever* only.

The first position which I shall endeavour to establish, is, That fevers are often infectious on board of ships, and likewise on shore when there is no suspicion of infection—from whence great mischief arises to society.

Infectious difeafes have in all countries, and in all ages, been the greateft peft with which mankind were ever vifited—and the fhip fever alone has heretofore been more fatal to the fleets and armies of this country, particularly in time of war, from obvious reafons, than the fword, and all other difeafes whatever—during the calamity of war, we are tolerably well informed of the numbers flain

flain and wounded; but, from political motives I fuppofe, we hear nothing of the thoufands who die of the ship fever, or other difeafes. I am of opinion however, that it would be far more beneficial to mankind to have an exact register published of all the feamen and foldiers who die in the fervice of this country, whether in times of war or peace -fetting forth the difeafes of which they died, together with a concife, but faithful account of the manner in which they were treated by the phyficians or furgeons-a scheme that might perhaps be easily extended to civil fociety, by which the diligent and judicious practitioners would foon be diftinguished from the obstinate or indolent theorifts-The ignorant would be detected and taught to improve, or be compelled by the magistrate to withdraw from the practice of a fcience, for which they were vifibly unqualified; while those, who by an unwearied attention to difeafes, and the effects of remedies, modeftly defplayed their skill and judgment, would receive the tribute of a grateful people : the young phyfician or furgeon would not then dare to fet out in practice on any theoretick authority whatever; but would be obliged 23

obliged to make that method the rule of his practice, which had hitherto been found by experience to be the most fuccessful—a laudable spirit of emulation to excel in the practice of physick would universally prevail, instead of an ambition to establish fuch theories as are now forced upon us—in God's name let mere theory be expelled from the practice of a fcience, upon the fuccess of which the interest and lives of mankind depend.

The obvious confequences of the fhip fever not being fufpected to be contagious, when it is making great devaftation in a fleet, will be a neglect of precautions to prevent the infection from fpreading, and checking it in the bud.

On the 26th of November 1776,* fixty fupernumeraries were fent from the Rainbow on board of the Juno, after the convalefcents of the latter had been fent on fhore to fick quarters; and great pains had been taken to fweeten the fhip by washing, good fires and fmoking. Eight of these Rainbows complained to

* See the diary of the fick lift.

me as foon as they came on board, whom I found had the fever; and upon reprefenting the fact to captain Dalrymple, he immediately got an order to return them on board the Rainbow, which was done next morning. The furgeon of the Rainbow, who was a gentleman of good fense, did not fuspect that any other thing was the matter with them, or the reft of the fupernumeraries which they had on board, but colds-and I have fince been been well informed, that the Rainbow's people were fickly foon after.

On the ift of March 1778, when the Haerlem came into Cape Cod bay with the transports, I was fent on board to visit the lieutenant commanding her, who was reported fick to captain Dalrymple: I found him, the furgeon, two midshipmen, the lieutenant's clerk, and three or four men and a boy, very ill of fevers. The furgeon, fo far from fufpecting that the fever proceeded from infection, was much furprifed when I afked where, or by what means they caught it; and on my enquiring if they had had any fick passengers, or prifoners on board, the lieutenant told me that he received a few prifoners on board from the prifon

fon thip at Rhode ifland before he failed, who were not well, to bring home to the Vineyard, as an inducement to the inhabitants to allow fome of their pilots to come on board to pilot the transports through the fhoals. Thus I traced the infection back to the prifon fhip, at Rhode ifland, where I knew it had been very virulent and fatal for a confiderable time.

The Haerlem being immediately ordered on a particular fervice, the lieutenant and the reft of the fick were removed on board of a transport, and the furgeon of the Cerberus was directed to take care of them, except the lieutenant, who wished I might visit him as I had feen him firft. I endeavoured feveral days to perfuade the furgeon of the Cerberus, that it was the flip fever of which those men were ill; but he would not believe me until I afked him if he had not perceived petechiæ on them; and he told me he had not looked for any, but that he would go and examine fome of them immediately; and returning foon, he exclaimed, that it was the true Febris Carceraria; and could now account for his mate's being ill who attended them, and for fome

fome flight complaint of his own, and immediately prefcribed bark.

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The agent for the transports frequently visited on board the Haerlem, between Rhode Ifland and Cape Cod, and carried his fervant (a boy) with him; the boy by that means caught the infection and died, without his master, or any one on board the transport fuspecting the cause. The agent himself was feized with the fever, and was very ill under my care.

When commanders neither know the confequence of admitting fick on board their fhips, nor will pay any regard to their furgeons, when they diffuade them from receiving them, obftinacy is a mild appellation for their conduct. I belonged to a fhip in a very healthy flation, on board of which a man, ill of a fever (who died in a few days) was admitted out of compafilon, much againft my inclination and advice; the confequence of admitting him was, our fhip immediately became fickly, and continued to all the time I belonged to her; and I have been in-

informed by the furgeon who fucceeded me; that her men were fickly while fhe continued in commission, which was more than a year after I left her.

Such too frequently have been the confequence of fevers, when not confidered as infectious. When the fever has been raging with great violence on board different ships, I have heard their refpective furgeons fay, that there was a bad, flow, inflammatory, an irregular or putrid fever running through their fhips; even these gentlemen never once fuppofed, nor would believe it when they were told, that the fever was infectious. It is therefore the lefs furprizing, that fuch gentlemen can give no fatisfactory reafon why fome fhips are very fickly, while others upon the fame fervice, and labouring under the fame hardships, respecting duty, provisions and cloaths, are perfectly healthy .- This was remarkably evident on board the fhips employed in America; for fuch of them as happened to be fo unfortunate as to get prisoners on board, either from prisons, or prison-ships, how healthy foever they were before, were fure

to

to become fickly. * Nor did any of the transports who had fick troops on board, efcape the infection. Yet notwithstanding fo many glaring proofs of *infection*, that idea was entertained on board of very few ships indeed.

I visited some men on board of a transport at Sandy Hook, whom I found very ill of the ship-fever; and upon enquiry of the master, who was then, and had been long ill himself of the fever, I was informed that both he and his men had been very healthy until sick troops came on board, and that they had never been healthy afterwards.

Were I to recapitulate all the inftances which I could adduce on this fubject, it would enlarge the bulk of these Observations beyond my defign. I shall therefore only add two more, one of which I met with in private practice, and the other at Brookline Hospital on Long Island, near New York.

* Viz. Eagle, Diamond, Lark, Juno, Brune, Orpheus, Emerald, Apollo, Unicorn, and many others.

I was

I was defired by a friend, an officer of the navy, then in London, to vifit his fervant, a young man who had lately come from fea with him; he was bad, and had an apothecary attending him-I found him very ill of the fhip fever. I enquired of the nurfe what the apothecary faid of him, and fhe told me that he thought it was only cold he had got, and that he would be well in a few days. The medicine which he prefcribed, apparently, was faline mixture, with perhaps, some antimonial preparation. I defired the nurfe to tell the gentleman, that I would meet him next morning; but unluckily he got before me, and told the nurfe, who delivered the meffage I left, that he could not poffibly wait for me, but that he had the pleafure to inform me by her, the patient was much better, after having fweated all night, and that he would foon be well, On the contrary, I found him worfe; and fuspecting from his appearance, that he had been more delirious in the night, than on any preceding night, I asked the nurse if he had not raved for fome nights paft: " To be fure," she faid, " he had talked nonfense for feveral nights paft, but he talked more laft night

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INTRODUCTION. 15 night than he ever did before." I advifed his mafter to get him immediately into an hofpital, which he did; and there he recovored, with great difficulty, by an abfcefs forming on his hip, as the boy himfelf told me fome months after; and he was then fo much emaciated, that I fcarce knew him.——He could not recollect that I had ever feen him during his illnefs.

When the Juno arrived at New York, on the first of January, 1777, judging it my duty, I reported on the fick lift, (which was to be delivered to the commander in chief) that we had an infectious fever on board. The physician of the hospital being informed of this, prepared to receive fifteen men, who, 'tis true, were chiefly in a convalescent state ; and they were fent next day.* The change of diet and air, which they took care to enjoy by strolling about, had so happy an effect on many of them' that when I went to the hospital, the physician told me, he was surprized that I could report

* More were fent afterwards, as will appear in the Diary.

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an infectious fever being on board the Juno, when there was nothing the matter with the men whom I had fent on fhore; and if Lord Howe fhould be informed of it, he was certain that he would at leaft be highly difpleafed. In confequence of his inattention, four of those fifteen men, who, as he imagined, ailed nothing, died; and others, who were fent afterwards, from want of proper attendance, run delirious about the hospital in the night. What the further confequences of fuch inattention was, or might have been in the hospital, the reader will readily conjecture.

Those unfuspected instances of infection, are not introduced from any defire to censure the character and memory of a respectable gentleman, far less to enjoy a triumph by exposing the errors of others——The defign is, to put young practitioners on their guard, and, if poffible, to prevent the fatal effects of such a general inattention hereafter.

And I hope it will be admitted, that however great the respect we owe to the merits and

and characters of individuals, the regard which is due to the intereft of fociety is still far greater. These confiderations, I am hopeful, will shelter me from censure, for stating important facts, for the publick intereft. No other motive has induced me to undertake this fecond laborious and unprofitable task-a task, however, which I may venture to fay, the young and unexperienced practitioners who have come lately, and are daily entering into the fervice, will particularly profit by, if they condefcend to pay due attention to it; and as to the opinion of the more experienced gentlemen of the profession, whose candour and generofity I have already experienced, in their approbation of my Physical Journal, it is respectfully submitted .- But to return to the fubject.

Certain it is, that the fhip fever appears fo infidioufly at times, that men of great phyfical knowledge have miftaken it for very flight complaints, and have thus been led to fuppofe that the fick lifts, on board of fhips where the fever was, were defignedly increafcd, by adding the fkulkers *, and thofe who * Men who get out of the way when work is carrying on, or make idle complaints to the furgeon, to be protected from doing duty.

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TH

had very triffing ailments, at a time when many of those men who were thought to have very flight complaints, were fo ill that they died of it soon after. Gentlemen who are employed to examine the fick on board the ships, or on shore, ought therefore to be on their guard, and to execute such an important duty without any preposses or bias whatever, and with that impartiality and benevolence, which distinguish the man of skill, candour and feeling.

Having now endeavoured to prove the first position, it will not perhaps be thought foreign to the purpose, to enquire into the causes why fuch a general defect has existed so long in the practice of physick, as we have shown.

ift. They who vifit or attend fever-patients, know not that they were infected, only becaufe they have not taken the trouble to advert or enquire by what means their patients were infected. It is the lefs furprifing, therefore, when other gentlemen who have taken the trouble to trace the difeafe to the fource, and inform them of it, that many of

of them anfwer to the following purpofe: "Infection, the devil! how fhould we get infection? This is a fever of the inflammatory kind, but accompanied with malignancy and putridity, with very little or no remiffion."

is a who who pay no real

2d. Many of the profession think, that by infection, is neceffarily implied, a difease to deleterious in its nature, that, like the pestilence of Athens, it ought to sweep away fuddenly almost every person whom it attacks; or that no other difeases are infectious, except the meazles, small pox, and plague. But attention to the ship fever will convince them of those errors. The plague is universally thought the most dreadful and destructive of all difeases; but by what appellation are we to distinguish a difease whereof about fixty men die * in a very few weeks, on board of a ship, which ship's full compliment is two hundred and forty, widows * men included ?

* This happened on board the Venus.

* A certain number bore for wages, which are appropriated to the fund to penfion widows, on board of every fhip in the navy.

3d. Scep-

3d. Scepticifin, I am of opinion, has been as baneful in the practice of phyfick as in any of the other fciences; I would not, however, have it underftood that I condemn gentlemen as fcepticks for not implicitly believing the *ipfe dixit* of any perfon; but they may defervedly be called fo who pay no regard to the opinion or writings of them who have had opportunities of be coming acquainted with the difeafes in queftion, and have been fuccefsful in the management of them.

Of those scepticks there are various classesfome men are become fo, from having with great trouble framed their own darling hypothefis, which, as if one of their offspring, they are determined to defend and fupport at all hazards; or, what is equally as bad, they may have already adopted the opinion, and pinned their physical faith on the fleeve of fome author or practitioner, whom they think the only Efculapius to be confulted in all difeafes whatever. "Would you," fay they, " prefume to deviate in your opinion or practice. from the great Dr. ____? though at the fame time, the perfon thus reprobated, has probably had far more experience in the difeafes under

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der confideration, than the Esculapius himfelf; and this very Esculapius, after the truth is known, has perhaps in that instance rendered himfelf eminent by having communicated to print what with indefatiguable study he had only spun out and wove in his own prolific brain—a most elegant inexplicable theory of the difeases, in the texture of which, to be fure, 'tis impossible he could have erred, or in the fuitable rules which he has laid down for the cure !

There are other men whom it may not fuit to confess that they are convinced; their fituation and inclination may have already obliged them to have made up and published their opinion of the diseases, and how erroneous so ever their opinion was, demonstration itself would often, I fear, come too late for them to acknowledge their conviction.

There is yet another clafs of men lefs pardonable than any of the former, becaufe tho' by their fituation they have had the power to do good, they have for particular ends, beft known to themfelves, exerted it to intimidate, nay even to injure and opprefs those who

who have had virtue and refolution to advance a doctrine contrary to the received opinion, an opinion which theory alone gave birth to, and which weaknefs and indolence have foftered. Of fuch men, I cannot help faying what the patriarch faid of old, "My foul come not thou into their fecret, unto their affembly mine honour be not thou united !" * We now proceed to endeavour to eftablifh

The fecond position, namely, That the fhip fever may be detected by duly attending to the following observations in general, and more particularly by those symptoms which we have termed diagnostic and the description in part 11. chap. 1. sect. 1.

It is already admitted that the fhip fever has fometimes been fo infidious as to deceive men of great fkill; but we are of opinion that this will very feldom happen if the following circumflances and fymptoms be carefully attended to.

1st. Let it be a rule when one, two, or more patients complain of a fever, to interro-

* Genefis, chap. ver.

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gate them very ftrictly—whether the fymptoms be more or lefs fevere matters not, the precaution is equally neceffary; examine them clofely if they have been in a place where there were people fick, or in company with any people who had been vifiting, or attending fick : fhould your patient anfwer in the affirmative there will be great reafon to fufpect that they have been infected, and fuitable methods to ftifle it in embryo, or to render it as mild as poffible, cannot be too fpeedily adopted : though they anfwer in the negative, the fymptoms are to be the more diligently confidered.

2d. Of all the fymptoms of the fhip fever taken feparately, the countenance is by far the most striking index, or diagnostick, which daily becomes more and more obvious; and the more obvious, or the more difeased, *it* is, the greater is the danger \ddagger . In *it* there is fomething a je ne fais quoi which expresses more difease than either the patient complains of, or can be conveyed in words.—To fay that

* Dr. Lind is of the fame opinion. See his Differtation on Fevers and Infection, chap. I. fect, I. p. 193 -anote.

the

the countenance is greatly dejected or depreffed is not enough—much more is visible to a perfon who carefully examines it; at least much more is very obvious to any one who is acquainted with the fever. It therefore ought to be well studied.

3d. Rigors, or chillinefs, or alternate chills and heats, almost constantly precede the fever.

4th. Very few patients complain without mentioning head-ach.

5th. Sicknefs at ftomach, or reaching are very early complained of.

6th. Univerfal pains; or as the fick express themfelves, pains all over them,—or pains in all their bones or joints, but efpecially in the loins or back are concomitants of the fever. Those are the fymptoms which the fick first complain of. It is true I might mention others which often accompany the fever from its commencement, but they are not uniformly primitive fymptoms, like the preceding—therefore, whenever the people on board of

of a fhip begin to fall down, and complain of having been feized with Rigor; or Chillinefs; or alternate Chills and Heats; — Headach; —Sicknefs at Stomach or Retching; univerfal Pains—or, as they fay, Pains all over them—or Pains in all their Bones, or Joints; but efpecially in their Loins or Backs; —and if the countenance is at the fame time difeafed, whatever be the other fymptoms accompanying those, I would not hefitate a moment to affert that a most virulent infection had got amongst them.

If it be further obfervable in the courfe of the fever, that they who attend, or have communication with the fick, are feized with fimilar fymptoms;—and if the fick, though now arrived at a convalefcent ftate, are not only very long in recovering perfectly; but from the flighteft caufe are found liable to relapfe—they must have very little difcern. ment who doubt of there being a most virulent infection on board,

But it may be faid that those fymptoms which I have laid down as the diagnosticks of the ship-fever, are perfectly similar to those C which

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which introduce the eruptive fever of the fmall-pox and meafles*—the flate of the countenance excepted. Were this the general opinion of practitioners, it would fully anfwer my prefent purpofe;—as those fymptoms would be acknowledged to be the concomitants of infectious difeases; and as furgeons when they are once aware that there is infection on board, will not only be foon relieved of their doubts, fhould they have any, whether it is not the fmall-pox or meafles; but will be inftructed to exert themfelves to render the infection as mind as circumftances will admit + — nothing elfe being our prefent intention.

However, it is not to be underflood that the picture of the fhip-fever on its first attack, which is here laid before the reader, comprehends every feature which it puts on,—I fay

* This is not firifily the Cafe.

+ For directions on this important fubject, we refer the reader to Dr. Lind's valuable Differtation on Fevers and Infection, chap. I. fect. V.—chap. IV. fect. IV.---and in Dr. Miller's Obfervations on the Management of the prewailing Difeafes in Great-Britain,---from page 267 to 293.

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it is intended to reprefent the most general, or the strongest features only.—A more minute portraiture, or description is set forth in part II. chap. I. sect. II.

7th. We ought now to endeavour to eftablifh the third position, namely, That bark far excels all other medicines extoled, for curing the fhip-fever; and though that will more properly be done, when we come to the treatment of the fever, and to show the different methods which circumstances obliged us to adopt in the management of it; we beg the reader's indulgence while we infert one or two remarks respecting the administration of bark to cure fevers.

Ift. I am fully perfuaded that bark has not hitherto been administered upon any *principle* by practitioners in general to cure a fever.

They do not prefcribe it in fuch a manner as to flow either their own confidence that it will cure their patients; or that they judge it the most proper medicine when they do C_2 pre-

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prefcribe it—therefore, they do it, as they express, themfelves, with caution; and when a few fcruples or drachms have been given before the patient dies—though as many ounces were requisite to recover him—they fay " the bark did not answer in that case; " or, " that it failed." But, should the patient schanged for fome other medicine—instead of their increasing the doses of it, and repeating them oftner.

I, therefore, beg leave to afk fuch practitioners in phyfic a few plain queftions: 1ft. When they want to vomit, or to purge their patients, do they expect to effect those evacuations unless they prefcribe a fufficient dose of ipecacuan and jalap? * 2d. Can they precifely afcertain a proper dose of either for a patient whose conflitution they are strangers to?

3d. When either the dofe of the ipecacuan or jalap which they prefcribed, produced

* We make choice of these only because they are the most common medicines.

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the intended effect, would they fay that these medicines failed to vomit and purge ?

4th. On the contrary, would they not confers the dofes were too fmall which they ordered; and would they not repeat those medicines in certain proportions until they operated?

But fuppofing those gentlemen produced a cafe or two of a fever, fully and fairly flated, which the bark failed to cure; could not I relate inftances where jalap would not purge, nor ipecacuan vomit? — And fhould they doubt the quality of the jalap and ipecacuan which was given; might not I with equal propriety doubt the goodness of the bark which they administered?

The propositions are clear; and the following inference is obvious and juft.—Laying it down as an axiom that bark will as certainly cure the fever as ipecacuan will operate by vomiting, and jalap by ftools—does it not follow, that to cure the fever, the quantity of bark must be as fully proportioned as the

the dofes of ipecacuan and jalap in their refpective cafes ?

Again, as in thefe cafes it is difficult to afcertain the dofes until the conftitution is known—is it any wonder that it is not yet afcertained how much bark will cure the fever until the patient is recovered ? *

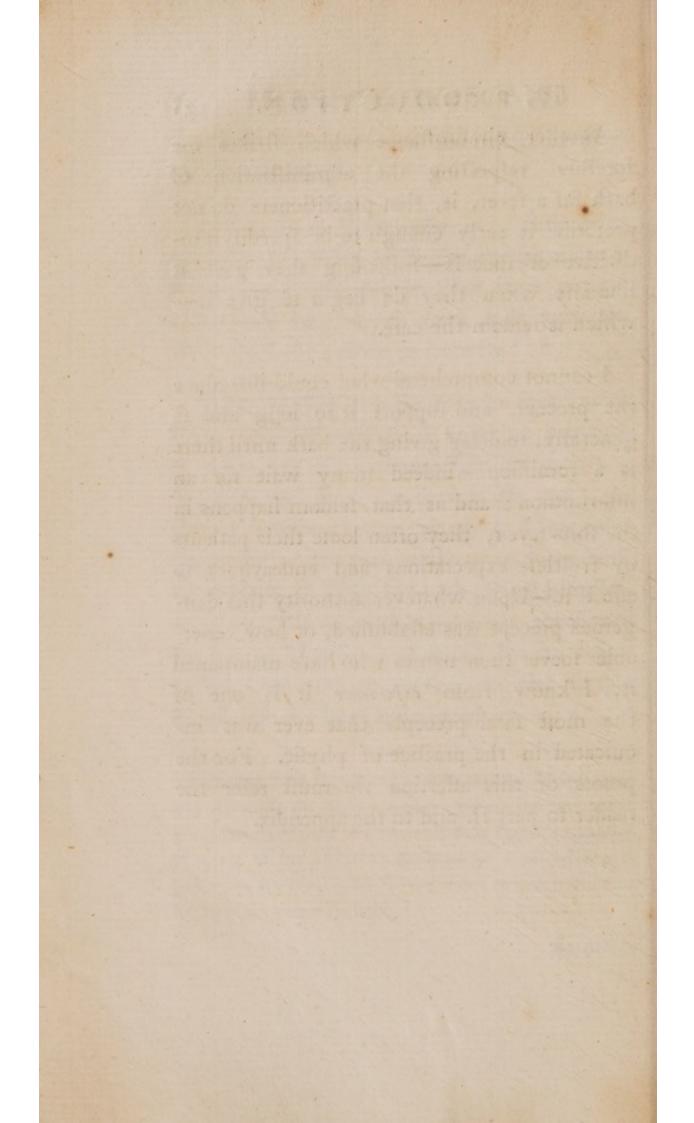
Whoever then expects to cure fevers with bark, and administers it upon no principle or upon any other than—*That the quantity to* be given must be proportioned to the case; and that the requisite quantity can only be known when the patient is recovered—will often have cause to exclaim "That the bark failed him " a fort of cant which I believe has occasioned the loss of thousands of men, by its being passed from one to another on the simple foundation we have mentioned.

*I do not think it ever can be fully afcertained any other way---though we may by a proper use of the bark arrive at as great a certainty in time---what the requisite quantity of it, is; as for any other medicine for a particular purpose.---Is it yet afcertained how much mercury will cure a man of the venereal difease ?

Another

Another circumftance which ftrikes me forcibly refpecting the administration of bark for a fever, is, that practitioners do not prefcribe it early enough to be fpeedily productive of fuccefs—fuppofing they gave it liberally when they do begin to give it which is feldom the cafe.

I cannot comprehend what could introduce the precept, and fupport it fo long and fo generally, to delay giving the bark until there is a remiffion — indeed many wait for an intermiffion; and as that feldom happens in the fhip-fever, they often loofe their patients by fruitlefs expectations and endeavours to effect it.—Upon whatever authority this dangerous precept was eftablifhed, or how venerable foever their names who have maintained it, I know from *experience* it is one of the moft fatal precepts that ever was inculcated in the practice of phyfic. For the proofs of this affertion we muft refer the reader to part II. and to the appendix.



OBSERVATIONS, &c.

PART I.

CHAP. I.

SECT. I.

MONTHLY REVIEW OF THE SICK LIST; From April 4, to August 31, 1776.

WHEN we failed on the 4th of April from St. Helen's, on our voyage to Quebec, the patients on the fick lift were, one with fever; one with eruptions; one with itch; one with inflammation; and three with foul ulcers.

The wind varied much and often, tho' in general it was between the Northward and Eastward, until the 12th, when it got round to ESE. From thence it veered to the SW. On the 15th

it

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it was from South to East; on the 16th, from NE b N to NNW, varying to N b E, 'till the 20th, when it came to SW, and varied between that and N b E, until the 27th. It then varied from ENE to SSE: on the 28th, and afterwards, got back to the N and NW, ftill varying. On the 8th, 9th, 15th, 16th, 25th, it blew gales; the 19th and 20th it was fometimes calm. The 11th, 12th, 15th, 17th, 21ft, 22d, 23d, 24th, light showers; the 25th, showers; 28th, light fhowers. The atmosphere was generally cloudy, fometimes clear, but feldom foggy, except when we croffed the banks of Newfoundland. The moon was full the day we failed, and changed the 18th. The mean height of the thermometer was about 57 degrees.

The fick lift did not vary much, but rather increafed regularly until the 23d—decreafed until the 27th, when it increafed; and then decreafed rather, to the end of the month. The number who were added, were thirty with fever; two with fcurvy; one with rheumatifm; one with gout; two, hectic; one with a cough; one with hæmorrhoides; one with eruptions; four with itch; one with a fcald; two with flrains; three with contufions; one with a fracture; three with inflammations; one with a fwelling of the knee; two with abfceffes; one with excoriation; and five with ulcers.—In all, 62; including those who were on the lift the day we failed.

I fent

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I fent three fever patients to the hospital in the month of March. Amongit the fever patients are included those complaints which are vulgarly called colds; being accompanied with symptoms of fever: a number of those were flight, and easily carried off; but were so classed to avoid multiplying difeases, or columns in the general table. This is to be understood of all such cases until the month of September begins; only we shall take notice in the month of August of such as had severer attacks of sever, the symptoms which accompanied it, and the manner in which it was treated. Of other difeases, it is not my intention to treat.

MAY.

The wind was as variable as in the preceding month, but much more Wefterly, and always moderate, except the 10th, gales. On the 1ft, 2d, 14th, 18th, 19th, 20th, 22d, and 28th, at times it was calm. We had heavy dews the 1ft and 2d; 4th and 5th, light fhowers with fnow; 7th, fnow; 8th, light fhowers; 9th, fhowers; 11th, 12th, 15th, 16th, light fhowers; 18th, fnow; 21, fhowers; 23d and 25th, light fhowers. The atmosphere was often very foggy, and wet every thing, particularly in the beginning of the month. Sometimes it was very hazy,

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hazy, at others cloudy, and feldom clear.—— The moon was full the third, and changed the 17th. The mean height of the thermometer was about 47 deg. It was often very cold in St. Laurence's river.

The number of fick first increased a little, then decreased fomewhat, but varying little until the 12th, when it increased, and rather continued doing fo until the middle of the month, then decreased to the 20th. From that time it varied very little until the 27th, when it began to decrease, and altered very little from the 28th to the end.—On the 8th grogg was begun to be ferved.—At the end of the month we arrived at Quebec.

The patients added to the fick lift this month were, forty with fevers; one with quinfey; one with plethora; one with a dyfentery; three with the belly-ache; one with a fingultus; one with deafnefs; one with a nephritis; one with hæmorrhoides; two with eruptions; one with itch; feven with contufions; one, wounded; two with inflammations; one with a fwelling of the knee; and eight with abfceffes:—in all, 73.

On the 24th, a boy died of a fever, which proceeded from a fracture in the neck of the os femoris, and ended in a tetanus, or locked jaw. The day before he died, I was informed, he had hurt himfelf at play before he was taken ill. When he came to me first, although he complained of a pain about the superior and anterior part of the

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the thigh, I dropt the idea that he had hurt it, until the tetanus came on; becaufe he firmly denied, from his first complaining, that he had received any hurt.

Nothing further material happened in the course of the month.

JUNE.

The 5th and 6th the wind varied; as it did alfo on the 12th, 17th, 19th, and 20th; but was then chiefly SW .- Otherwife it was NE, or ENE. Then it was SW or Wefterly with calms, until the 25th, and from that time varied until the end of the month; and all along, excepting the 13th and 14th, gales, it was light airs or fresh breezes. The 1st and 4th, light showers; 6th, showers with thunder; 13th, 14th, 16th, 17th, 18th, and 19th, light flowers, with t and 1; 20th, light flowers, with b t and 1; 22d, showers, b t l; 23d, showers, t l; 24th, 26th, 28th, 29th, light fhowers, tl. The atmosphere was often clear, especially in the beginning, but was more generally cloudy throughout the month. The 3d the moon was full, and changed the 16th.

Excepting the first day, the fick list rather decreased until the 8th, when it increased, and the following patients were sent to the hospital; one with a fever (a weak man); one with the scurvy;

MONTHLY REVIEW of [June

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fcurvy; one with the gout; two with coughs; one with the epilepfy; one with eruption; and three wilh ulcers. It increased until the 12th, decreased until the 15th, increased until the 18th, varied little until the 27th, and decreased again.

The patients who complained this month were, fixteen of fevers; one of a pleurify; five of dyfentery; two of the fcurvy; one of the rheumatifm; two of the gout; one with hæmorrhage; two with coughs; one with epilepfy; one with itch; one with a rupture; eight with contufions; and one of an excoriation:-42 in all.

The ship's company were ferved fresh beef on Saturdays and Sundays; and fpruce beer after the 8th. ---- The hofpital was a fhocking house, and under a very high hill, close to the river on the Point Levi fide. Before we arrived, they were taken into the general army hospital, and had been there all the winter .- On the 24th, the pleuritic patient was fent to the hofpital in a convalescent state; and seven of them who were sent on the 8th, returned on board; and on the 25th I applied to have them invalided. Two of the fever patients were fent fmall-pox patients to the hospital: one of them, who was feized feveral days before with the fymptoms which commonly appear before the eruption, had feen a man ill of the fmall-pox at the hofpital, who died there; but they are claffed fever patients, becaufe it was uncertain if it was the small-pox .- Thirteen in all were fent to the hofpital.

On

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On the 8th the patient died of the fingultus.

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Every thing at market was very dear.—Scarce any fort of vegetables.

JULY.

Excepting the 2d and 16th, when it was ENE, the wind varied backwards and forwards from S b W round to NW, until the 18th with moderate gales; from the 9th to the 16th calms A.M. It then got round to the NE, 'till the 21st, when it varied, and was calm part of the day. It again came to SW, blowing moderately with little variation until the 29th; A.M. commonly calm, after which it was variable. Ift, light flowers, t l; 2d, ditto, l; 4th, flowers, t l; 5th, light flowers; 7th, 1; 9th, flowers; 11th, 12th, ditto, tl; 16th, fhowers; 17th, light ditto; 21st, ditto, 1; 22d, 24th, 26th, 28th, light showers; 29th, hard showers; 31st, light ditto. The atmosphere was cloudy and clear alternately, but not quite regularly fo every other day. The moon was full the 1st, changed the 15th, and full the 30th. The mean height of the thermometer was about 66 deg .- It was lower in the city at noon, than in the lower town, or on board of our fhip.

The fick lift varied little, but increased towards the middle of the month; from which time it decreased until the 26th, when it increased; 8 MONTHLY REVIEW of [July. creafed; decreafed for two days again, and increafed to the end.

The patients who complained this month were, feven of fevers; one of a dyfentery; one of the belly-ach; three of the fcurvy; two of rheumatifm; one of a fore throat; four of a cough; one of the epilepfy; one of a ftrain; five of contufions; one of a fracture; one of a wound; one of an inflammation; two of abfceffes; and one of an ulcer:—32 in all. So that as the weather became mild and warm, the fick lift decreafed.—But this fubject will be more fully difcuffed next month.

We had fome marines fent on board a tranfport to guard prifoners.-Every thing afhore at market, except vegetables, (which were ftill fcarce) became much cheaper. The fcurvy had hitherto been the most prevalent disease in the hofpital, fince it was established. The Triton fent a number of scorbutic patients to it; but the men having got fpirits to buy at the Brunfwick camp, which was on the top of the hill, lived irregular. Very few were feized with fmall-pox ashore. I fent two scorbutic patients to the hofpital, one with fmall-pox, and one with fever.-Towards the end of the month, the Pearl returned from a cruize in the gulph, with many of the people fcorbutic: they had blowing foggy weather. We were now ferved fresh beef three times a week.

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The Brunfwick troops had a very mortal fever among them; the following fhort account of it I had from the furgeon general to the garrifon.

" They were generally bad three days before they were brought to the hospital to him; that they were then delirious, with their tongues black and chopt, and their teeth covered with fordes; that they had petechiæ, and a flux on them, and that they generally died within 48 hours after their admission. That he observed no remiffion of the fever; that their pulses never indicated a ftrong fever, nor even danger; but all who were fo ill at their admission as not to be able to put out their tongues to fhow them, died. That he ordered them, as foon as they were admitted, to be well washed in warm water and vinegar, and the bark to be given them freely with Port wine. And concluded with faying, (upon my enquiry if he had made use of blifters) that he did not approve of them in fevers with petechiæ; but that he perhaps might have applied them, had the patients been brought to the hospital when they were first taken ill."

AUGUST.

The ift and 2d the wind was variable, but Easterly; from the 3d to the 8th, it was from WSW to SW, varying a great deal; but ftill more from the 8th to the 11th, when it came to the

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the Eastward, and continued fo until the 14th; it then veered to the SW, continued there until the 26th, varying little the last fix or feven days. Now it veered from WNW to ENE, and continued there, with little variation, until the laft day of the month, when it got to the WSW .---All the month was moderate, and on the 2d, 14th, 15th, 21ft, 30th, and 31ft, at times calm; 2d, 3d, light fhowers, t l; 7th, 8th, 9th, 13th, light flowers; 16th, 21ft, flowers, tl; 25th, light showers. Until the 21st, the atmosphere was very feldom otherwife than clear; but the 18th was foggy and hazy; from that time until the end, it was almost cloudy or hazy; 26th and 28th, fometimes foggy. The moon was new the 14th, and full the 29th. The mean height of the thermometer was 65 deg. But it is to be obferved, that we left Quebec the 23d, and that the thermometer became gradually lower as we got down the river, fo that in eight days it was 9 deg. lower than it was the day we left Quebec: it continued lower while we were at Bique-ifland.

On the 5th, two of our men, one of the fcurvy, (one of the marines that were on board the tranfport) the other with a fever, were fent to the hofpital; and one with a cough on the 13th.— The lift decreafed until the 16th, when it increafed, varied for two days, and decreafed on the 19th, then continued without alteration until the 23d, when our four men came from the hofpital; after

after which it varied until the end, but rather increased.

On the 13th, two of our men were invalided by a fcurvy. We were ferved fresh beef every meatday, fome time before we left Quebec. The 26th we arrived at Bique-island, where our men were employed to cut wood for the sufe, and failed from thence on the 31st.

The patients who were added to the lift, were three with fevers, one with a head ach, nine with dyfenterick complaints, two with the belly-ach, one with the fcurvy, one with the rheumatifm, one confumptive or hectic patient, two with fore throats, three with coughs, one with deafnefs, one with giddinefs, one with eruptions, one with a ftrain, one with a contufion, three with wounds, one with an inflammation, one with an abfcefs, and one with a furuncle :—in all 34.

SECT. II.

Observations on the FEVER of the preceding Months.

WE are now come to a period wherein a very important change of the health of the fhip's company began to appear; but before we proceed to fhow that change, it may not be improper to enumerate the fymptoms of the fever C_2 which

which hitherto affected the people, and to compare them with those which occurred in the enfuing months. However, it is not my intention to draw this comparison at present to minuteness, but to represent, if possible, the characteristic marks of the jail or ship fever, which are inferted in the introduction. The particular description of this fever will more properly follow the diary of the sick list and monthly review.

Many of those who in the preceding months are ranged as fever patients, were so flightly affected, as to bring them, not very improperly, within the vulgar denomination of colds; although, as they had all at least *fome* feverish fymptoms, I chose to class them as fevers, to avoid the multiplying of columns of difeases in the tables.

The fymptoms of fuch patients were mild intermitting complaints. The pulfe was very different in different patients; thirfts, loathing of food, ficknefs at the ftomach, head-ach, cough, fore throat, hoarfenefs, acute pains of the fides, pain of the back, and in all their bones, (as they express themfelves) or univerfal pains, ftraitnefs about the breaft, griping complaints, deafnefs accompanying a fore throat, (tho' this was very feldom) giddinefs, especially in the month of May, and conftipations.

I thought it neceffary to take away blood in fome cafes only. Gentle evacuations by vomit and

and ftool, promoting a moderate diaphorefis with effence of antimony or tartar emetic, together with opium, or tinct. theb. fometimes; boluffes of fperma-ceti and nitre, or the oily mixture, repeated as there was occasion, with diluting drink, and the volatile liniment applied to the throat, carried their complaints off in a few days.

Although the preceding cafes were by far the greater number of the fever patients, yet many had the fever in a feverer manner, as may be feen from the following fymptoms and their duration, which are collected from *all their cafes*, and enumerated daily. But neither the pleuritic cafe, nor two others (which were occafioned by putting a corpfe into a coffin) are made mention of ; though thefe two indeed were flight. It is not, therefore, to be underftood that all the fymptoms which are enumerated in any one day, occured in a fingle cafe.

1. They were feized with chillness and rigors, fucceeded by heats, thirst, and universal pains and uneafiness; pains in the fide and back, difficulty of breathing, tightness about the throat, great hoarseness, cough, head-ach, giddiness, and fickness at the stomach; the pulse quick and full.

2. Some had very reftlefs nights, without any remiffion from the head-ach, and a pain that went round in the direction of the diaphragm, efpecially with a cough, which was dry and urgent;

gent; and from pain of the breaft that affected refpiration, the countenance was flufhed, and the eyes watered; remiffions, paroxifms, coftivenefs, profufe fweats, the thirft continued, and the pulfe was in fome full and quick.

3. The paroxifms continued above twelve hours, with the fymptoms as fevere as in the first paroxifm; pains in the knees, and about the shoulders, a frequent cough, and scarce any expectoration; a little cough and pain only.

4. Tho' cool, there was a dry, urgent cough, with pain at the fcrobiculus cordis; the remiffion continued fix hours, and the next paroxifm eight. Stiffnefs about the eyes, weaknefs, the pain of the breaft, and a head-ach from the cough, tho' expectoration began.

4. Profuse fweat the preceding night, a very teazing cough, weakness, with much pain about the breaft, and either no expectoration, or a difficult one in fome cases; no appetite, and the tongue was white.—On the 5th, of the flight fever, the pulse of a man who was subject to epileps, became quick and full, with giddiness and head-ach.

6. In the epileptic cafe there was a degree of ftupor.—P.M. an acceffion of fever; the fkin was hot and dry, the tongue dry; thirft, large quantities of urine, and languor; tho' fome were recovering.

7. In

In the epileptic cafe, the paroxifm went off in the night, by a large quantity of urine, and a copious flool. PM. a paroxifm came on an acceffion of fever happened after the patient had been in a recovering flate for four days, weaknefs—recovering flowly.

8. A difficult refpiration, with cough—pain of the back and weaknefs—fome recovering the paroxifm of the epileptic cafe ended as the preceding. PM. a paroxifm came on.

9. Cough and hoarfeness continued—the epileptic patient uncertain when the paroxism left him, and complained of his back.

10. A free expectoration, and recovering the epileptic man paffed an indifferent night; his head ached and was giddy, and his mouth and tongue were foul.

11. The epileptic patient had fhooting pains in his head at times, but was recovering.—One recovered.*

12. It was difcovered that the epileptic patient was very loufy, tho' recovering.—Hoarfenefs continued—weaknefs.

13. It was a confiderable time before he recovered any fpirits, and he was invalided the 25th of June.

18. One patient continued weak, and was fent to the hofpital; but this man had hurt his breaft not long before by a fall.

* TIDFORD, by bark.

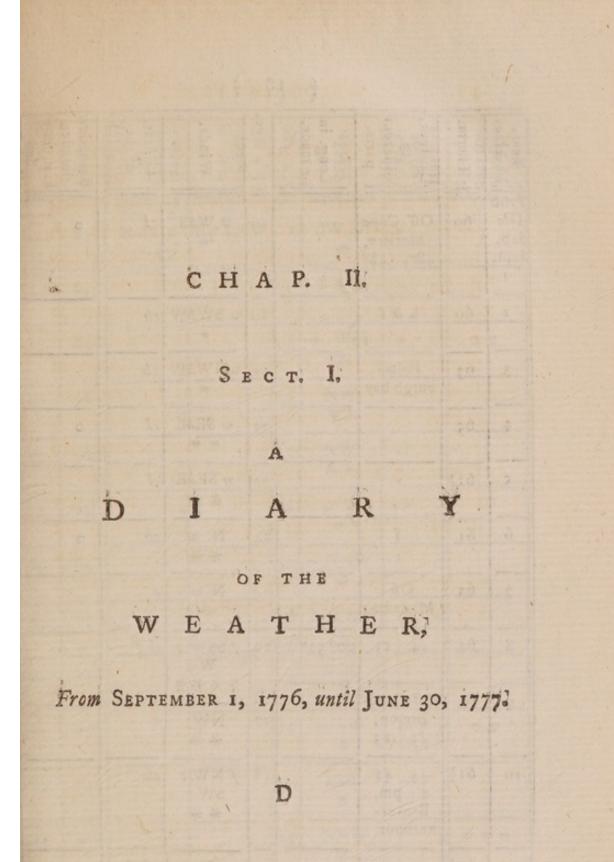
The

The Method of Cure.

It was not a general rule with me to let blood : -that depending folely on circumftances. A vomit was most commonly given at first; and if the patient was bled, the vomit was given a few hours after, and from xxv. to xl. drops of Effent. Antimon. with refrigerating and diluting drink at night. Next morning an ounce of falts was given, and the effence of antimony repeated in the evening. After those moderate evacuations, (which were feldom repeated) I prescribed Cort. Peruv. 3i or 3iß every hour, until the patient was out of danger; and afterwards it was given lefs frequent, and at this time Elix. Vitr. was often joined with it. When I began to give the bark, I did not omit it for any exacerbation of the fymptoms.

CHAP.

ANTHIN CONCERNMENT



(18)

M.&Day.	Therm.	Latitude, or, different parts.	Long. in or made.	»'s Age.	Winds.	Appear. of the Atmofph	Rain, dew thunder, hail, fnow &c.
1766 Die Sab. Sept: I	60	Off Cape Moriere, 48°, 58"	P. 1	19 A	v Wós *	d	0
2	60	a & f		20	v SW6W *	cb	and a
3	63	Hills- burgh bay	T. L.	21	v NW6W *	cb	
4	65			22	v SEBE * *	cl	0
5	6112	1.19		23	v SE&E **	cl	
6	61	٠ ۲		24	N v **	cb	0
7	63	Off Madame	11 1	25	N U	с 1,117	
8	64.	44 45	00° 51"W	26	f SSW t W ****	d f	0 0
9	(61	Off Cape Breton, 45 ² 3	dunn ⁵ 95	27	NW **	c	March
10	6112	44 42 a pm. Beaver- harbour.	Ō	28	f NW t SW **	ch	
11	631			29	s **	fd	0
12	60	am, f		n m	NNW *	c	

(19)

022 M. & Day	Therm.	L'atitude, or different parts.	Long. in or made.	II » s Age.	Winds.	Appear. of the Atmofph.	Rain, dew thunder, hail, fnow &c.
1776 Sept. 13	631	am. a Halif.x 44° 45"	in 64° 35″W	1	SW v *	c	
14	65			2	2 **	cl	100
15	65		10 m	3	v W6S *	bf	00
16	56			•4	NW **	c	
17	56 <u>1</u>		RE	5	NW **	d	pe hed
18	63			6	v W *	cb	
19	64			7	⊽ NNW *	c	
20	61			8	NW6N *	c	
21	64			9	S v *	cl	
2.2	65 ^L 2			10	v SW ¥	ch f & c	00
23	641			11	SSE *	ch f & c	
24	571			12	NNW *	f	000
25	57 =			13	NNW *·**	cb	0
26	592	ſ	*	14	• W * *	c	1

(20))

			and the second					and the second second
M.&Day.	Therm.	Latitude, or different	Long. in	or made.	I D's Age.	Winds.	Appear, of the Atmofph.	Rain, dev thunder, hail, fnow &cc.
1770 Sept. 27	60 <u>1</u>	44° 00	6"		P	SW v **	cl	1276 G
28	552	43 2	9		16	NNW **	c	
29	552	43 3 a pm Le Hav	1.		17	v * * *	cb	24
30	59				18	SSW **	f	
Oct.1 Die Mart	59½	am. ſ	4 5	1 1 2	19	NW *	c	14 181
2	54	43 4	9	T	20	WNW 2 **	c	40 01
3	56	42 5	o 00° 33 ma	s"W e.	21	ESE v **	¢	10 05
4	582	42 3	6 01 09	W	22	ESE v **	.f	0
5	58	42 4	2 01 01	W	23	ENE **	cb	14
6	541	42 50	6 01 03	W	24	ENE v	cb	0
7	59	43 1	5 01 56	W	25	E v * *	cb	
8	581/2	43 03	01 49	W	26	SE v *	cb	
9	60 t	42 58	01 55	W	27	wsw	cb	0

-		y	(2	1	/		
POL M.&Day	Therm.	Latitude, or different parts.	Long, in or made.	Il 's Age.	Win	Appear. of the Atmofph.	Rain. dew thunder, hail, 'now &c.
1776 Oct. 10	60	4 ≫° 07″	00° 06″ E	28	NNW v **	cb	0
íi -	532	44 06	01 04 E	29	v N6W **	cl	0
12	49	44 09 pm. a Halifax	VI8 121	n	WSW **	c	27
13	53	0	11 Ya - 4 1	I	WSW v **	c	
14	53	121 4	RI 11	2	WNW *	cl	hf
15	53	65	5 Cu	3	v **	c	22 25
16	54		W 14 14 71	4	S6E - *	cb	
17	581	N. N.	1.279. A	5	₹ *	cl	00
18	613		The second secon	6	SE v * *	cl	
19	582	am. f		7	W v * *	cl	0
20	57 ¹ / ₂	Le Have 43 50		8	NW v ***.*	cl	
21	581		1 1 W 11	9	SW v ***	cl	11 . a
22	53		1910	10	NW6W:v * * *	cl	0

(22)

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M. & Day.	Therm.	Latitude, or different parts.	Long. in or made:	II D's Age	Winds.	Appear. of the Atmofph	Rain, dew thunder, hail, fnow &cc.
1776 Oct. 23	52	am. f 44° 01″ pm. a Le Have	**	I I	WNW WSW v **	Ъ	100
24	58			12	SW v * *	cl	
25	61		**	13	SW v * *	£	0011
26	60	am. f 44 @3	14 2 4 C	14	NE v	cb	0
27	57 ¹ /2	43 10	00° 51"W	Pam	NW v	f	14 33
28	551	43 47 off Cape St. Mary	- 10	16	V * *	cb	0
29	53	43 46	01 10 W	17	NNW v *. **	cb	0
30	47	Bay of Fundy pm. a		18	NNW v *. * *	d .	
31	50	- William		19	SW * * *	cb	00
Nov. 1Die Ven.	58 <u>1</u>	No. 1	MYR 8.	20	v NNW *	cb	0
2	52	1.1.1	No to	21	WNW v *. **	cl	00
3	461	am, f	2 70 1 1	22	v NNW *. **	d	10

(23)

22 M. & Day	Therm.	Lati.ude, or different parts.	Long. ir or made.	II D'sAge.	Winds.	Appear. of the Atmofph	Rain, dew thunder, hail, fnow &c.
Nov. 4	46 <u>*</u>			23	v SW *. **	cl	1
5	52	Off Anna- polis pm. a		24	SW v *• **	cl	A
6	56			25	SW *	cl	
7	55 ¹ / ₂	am. f		26	NE *. * *	f	
8	56	43° 15″		27	Nly v * *	Ь	
9	54	Cruifing		28	v NNE *	Ь	
10	57	OffSegvin a		29	* W	Ь	
11	55	43 29	00° 51" E made	n am	ENÉ v * *	<i>cb</i>	
12	49 ¹ 2	43 20		2	f NNE t NNW * *	cb	
13	50		4	- 3	NW v *	c	
14.	49	43 58		4.	NW v * *	c	
15_	492	43 31		5	Nly v * —	cl	
16	50 ^x	43 48		6	SW v *. **	c	

(24)

N.22 M.&Day.	Therm.	Latitude, or r different parts.	Long. in or made.	I s's Age.	Winds.	Appear. of the Atmofph	Rain, dew thunder, hail, fnow &c.
1776 Nov. 17	48	43° 20″		7	f N6E t NW * *	c	14 TAX
18	46 ¹ / ₂	4z 54	oi° 05"E made	8	Nly v *	c	
19	481	43 00	02 40 E	9	Nly v *	c!	310
20	521	43 20	11	10	* 	c!	100
21	55 55 ¹ / ₂	43 32 Halifax	7172	11	* * * * SW v	cl cl	2
23	57	am. a			*. * * 	cl	0
24	58				* SbE v *	<u>b</u>	0
25	57				SE *	<u> </u>	
26	59			16	SW * *	f	
27	60		The second	17	NNW *	<u>f</u>	0
28	56*	pm. f & a	110	18	NW ~ * *	cb	0
29	52 <u>*</u>			19	Wly *	c	
30	55			20	ESE v * *	f	00

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r	00	1
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M. &Day.	Therm.	Latitude, or different parts.	Long. in or made.) 'sAge.	Winds.	Appear. of the Atmofph	Rain, dew thunder, hail, fnow &c.
1770 Dec. IDie Sab.	55		UNA	21	v **	cl	0
2	51	12 I	a W C	22	WNW v * *	cl	10
3	45	100		23	* NW	cb	$f \circ$
4	53		Carrie F	24	SSW v * *	cb	00
5	49	P.	Maria	25	NW & * *	cl	28 21
6	46 <u>1</u>	f, -	12 - 14	26	Nly v	c	
7	51	43° 27″	00° 34"E made	27	Wly v * *	cl	10 11
8	53 ¹ / ₂	42 25	00 48 E	28	Wly v * *	cl	02 20
9	511	41 24	00 21 E	29	NNW v *. **	cl	
10	49	40 22	00 08W	n	N v * * *	cl	056
11	55	39 12	00 42W	1	NNW v * *	cb	0
12	571	39 17	02 50W	2	SE v * * *	cl	0
13	617	38 34	03 30W	3	NNE v *. * *	cl	+
14	63	39 45	04 24W	4	v W * * *	cl	0

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(26)

M.&Day	Therm.	Latitude, or different parts.	Long. in or made.	D's Age	Winds.	Appear. of the Atmofph.	Rain, dew thunder, hail, fnow &c.
1776 Dec. 15	5412	-	in 04° 13″W	5	NNW v ***	cl	10 11 10 10 10 10 10 10 10 10 10 10 10 1
16	59	39 15	04 36	6	₩ •υ ***	cl	00
17 .	56 ^L	38 53	05 41	7	NE v * *	cb	0
18	58	38 06	07 30	8	f W&N t NW&W * * *	cl	4
19	55 ¹ / ₂	37 45	07 02	9	N * * *	cl	7
20	57'2	37 34	08 12	10	N v **	cl	0
21	63	39 15	09 04	II	SE v ***	cl	001
2.2	561	39 52	08 36	12	v W6N ***	cl	10
23	53 [±]	40 01	08 07	13	NW&₩ ~ * *	cl	201
24	511	38 34	08 56	14	Nly - v * *	cb	
25	50	38 54	10 07	15	NE v **	d ,	
26	56	40 12	11 15	16	E6N v ***	cl	00
27	54	39 45	10 51	17	NW v *	cb	
28	51	39 35	11 20	18	NNW v	cl	1

(27)

M.&Day.	Therm.	Latitude, or different parts.	Long. in or made.	D's Age.	Winds.	Appear, of the Atmofph.	Rain, dew thunder, hail, fnow
1776 Dec. 29	46 ¹ / ₂	39° 30″	12° 57″W	19	N v **	cl	30
: 30	50 ¹ / ₂	Off Egg ifland.		20	SW v *	Ь	
31	50 ¹ / ₂	Sandy Hook. pm. a		21	ÉNE v *	cl	
Jan 1 Die. Mer.	53	f N.York, a North River.		22	SE *	cļ	
2	461			23	NW **	c	84. 7
3	- 421		The second	24	NW *	cl	f
4	42 ¹ /2		2.11 19	25	NWN **	cl	f
5	4112	THE REAL		26	NW *	_cl	ſ
6	41		W p	27	NW *	.¢	5
7	381		**	28	NWN **		f
8	38	The second second	- V 9	29	NWN **	.cl	f
9	39		1	n am	WNW **	cl	1
110	36			2	NWW *	d	5

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	M.&Day		Latitude, or different parts.	Long, in or made.	II v's Age.	Winds.	Appear, of the Atmofph.	Rair, dew thunder, hail, fnow &c.
	1777 Jan.	39		5 11	3	WNW v **	cl	£
,	12	39			4	NW **	c	5
	13	39 <u>1</u>			5	NW * *	c	ſ
	14	39 ¹ / ₂			6	NW **	c	5
	15	411			7	WNW * *	c	f
	16	48			8	SW **	Ь	5
	17	44	in the second		9	NW * *	c	ſ
	18	42		**	10	NNW * *	c	<i>f</i>
-	19	43			11	s **	Ь	5
-	20	46			12	NW SW **	cb	
-	21	52 F			13	f SSW t NW *	cb	
-	22	46			14	N v *	cl	
-	23	45			15	v *	Ь	5
	24	482			16	<i>•</i> * * * *	cl	.00

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(29)								
M. &Day.	Therm.	Latitude, or different parts.	Long. in or made.	II) 's Age.	Winds.	Appear. of the Atmofph.	Rain, dew thunder, hail, fnow &c.	
1777 Jan. 25	521/2		Van 1	17	W v *	cl	62 29	
26	523		100 m	18	NE v *	ct		
27	50 <u>1</u>		***	19	2 *	cl	14.1 4	
28	48		X12 1	20	NE *	cl		
29	47 ¹ / ₂	NewYork		21	NE v *	Ь	5	
30	46'2			22	NW NNW **	cl	5	
31	47		10 2 10	23	NW v	cb		
Feb. Die Sat.	46 <u>1</u>			24	w *	6	114	
2	50 ¹ / ₂	f & a bet. L. ifland &N.York	AL	25	SW *	d		
3	47	ſ	-	26	NW *	c		
4	42 ¹ / ₂	41° 08" pm. a off Gardiners ifland.	WH I	27	N v *	C	5	
5	47	f & pm. a Rhode ifl.		28	S == **	Ь	22 0	
6	39			29	NW **	c	5	

(29)

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M. & Day.	Therm.	Latitude, or different parts.	Long. in or made.	II > sAge.	Winds.	Appear. of the Atmotph.	Rain, dew thunder, hail, fnow &c.		
1777 Feb. 7	39	1.	w M	n	NW * * *	c	f		
8	43	1	1 3M 12		SE * *	d	0 f		
9	47	1	×	2	NW ***	C	192		
10	461/2			3	SW * *	cb	Sp C		
II	43			4	vfSE1 NE	cb	0055		
12	40		100 - 100 100 - 100 100 100 - 100 100 100 100 100 100 100 100 100 100		*** WNW ***	cl	28 8		
13	34	f	10 E	6	E v *		f		
14	39 ²	Off Long ifland	*	7	v NNE * *	cl	5		
15	38	pm. a Block ifl.	Jin 1	8	v NW * *	d	5		
16	39 [±]	am. f	100 5	9	WNW v * *	cl	f		
17	43 ¹ / ₂	Cruifing		10	NW *	b	5		
18	4 2 ¹ / ₂	3		11	NW * *	cl	5		
19	35	-	2 2 2	12	fNtNW *	C	S.		
20	292	Block ifl. pm. a	177 N 147	13	NW **	c	5		

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(31)

Le T	and the state of t						And and a second se
M.&Day.	Therm.	Latitude, or different parts.	Long. in or made.	S Age.	Winds.	Appear. of the Atmofph	Rain, dew thunder, hail, fnow &c.
1777 Feb. 21	29	am. f	· // 22	14	NW *	cl	f
22	38	Cruifing.	- 2 - 0	р	NNW v	cb	5
23	41 <u>1</u>		Alka o	16	NNE v * *	Ъ	5
24	44	39° 50″	00° 09″ E	17	v E * * *	cb	005
25	42 <u>'</u>	39 27	00 50 W	18	NNW * * *	cl	05
26	44	39 51	00 25 W	19	WNW * *	c	124 81
27	43		anna Maria	20	WSW v	cb	
28	38	40 20		21	NW v *	cb	f
Mar. 1Die Sat.	381			22	NW6N v * * *	ſ	
2	34 ¹ / ₂			23	NE v	cb	5
3	36	40 42		24		c	f
4	47	pm. a Block ifl.		25	f WSW t SW6S **	cb	5
5	36	f		26	WNW v * *	cb	0 <i>f</i>
6	41 <u>1</u>	Cruifing.		27	E v * * *	Ъ	005

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M.&Day.		l Latitude, or, different parts.	Long. in or made.	I D's Age.	Winds.	Appear. of the Atmofph	Rain, dew thunder, hail, fnow &c.
1777 Mar. 7	44 ¹ / ₂		Write	28	N v * *	Ь	005
8	46	6	WXW	29	で *	Ь	
9	48	5 6	3252	n m	f SSW t SSE *	Ь	0
10	47	-4-2-	7 17	2	WSW *	·	1.5
11	47	6	WILL A	3	v SSW *	·	1
12	47 ¹ / ₂		WINVI C	4	f SSE t SW6W * *	ſ	0
13	49		WOW IS	5	fNNE 1 NW6W **	cb	0 0
14	47	Rhode ifl. pm. a	26372	6	NW v * *	c	12
15	47			7	SW * *	Ь	1.1
16	482			8	SW v * *	Ь	
17	49	am. f pm. a Block ifl.		9	Wly * *	c	1.12
18	47	a m. f Long ifl. pm. a	114 11 114	10	WSW * *	c	

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22 W.& ay.	L'herm.	Latitude, or different parts	Long. in	1 D YSC	s Age.	Winds.	Appear. of the Atmotph	Ran, dew thunder, hail, fnow &c.
1777 Mar. 19	47	Plam ifl a am.		4 .	II	Wly *	c	
20	48	Sheiler ifl f am. & a	144	1.4	12	Ely * * *	ſ	000
21	482			121	13	Wly * *	C	
22	48	2		101 1 10	14	f W6N 1 SW * *	c	
23	47				P	Wly * *	c	
24	47				16	fSW t NW *	cl	
25	45 1				17	NW * *	c	
26	41				18	NW **	c	f
27	42 ¹ /2	Rhode ifl. am. f pm. a		+	19	NW **	c	22, 01
28	35	A. 9	VI Kay	-	20	NW * *	c	f
29	41		5	2	21	SW * *	d	0
30	461	Off Pru- dence f & a	18	0 1	22	SW *	cb	2 . 11
31	48		yn I		23	NW ~	cb	•

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(34)

M.&Day.	Therm.	Latitude, or, different parts.	Long. in or made.	D's Age.	Winds.	Appear. of the Atmofph.	Rain, dew thunder, hail, fnow &c.
I777 April IDie Mar	47			24	SW *	ch	4 1.1.Nº
2	47			25	Nly *	c	
3	481			26	T 4:	f	00
4	42		1	27	NW * *	c	ſ
5	42 ¹ / ₂			28	NW SW	c	ſ
6	46 <u>1</u>			29	Sly * *	c	14
7	47 *		14. 14	n	SSW * *	Ь	
8	491			I	SSW **	Ь	Y p - 00
9	51			2	₹ 7 %	b	
10	50 ¹ / ₂		* 10	3	₽ * —	f	0
tr -	511		MI DE	4	NW v * *	cb	0
12	511	1	18 13	5	ซ *	c	1.9 1.1
13	52	5		6	Sly * *	gcl20	00
14	-55		11 VE 24	7	*** NW	c	1

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M.&Day	Therm.	Latitude, or different parts.	Long. in or made.	»'s Age.	Winds.	Appear. of the Atmofph.	Rain, dew thunder, hail, fnow &c.
1777 April 15	46			8	NW *	c	f
16	481/2			9	Sly *	Ь	
17	512			10	Nly *	Ь	0
18	52			11	V * *	f	0
19	52	55 1		12	Ev *	f	0
20	511			13	NE * *	f	
21	52			14	₹ U	f	
22	52			15	Sly *	f	
23	55			16	NE * *	Ь	
24	55		******	17	Nly **	Ь	
25	54			18	N **	Ь	0
26	52			19	Sly *	Ь	0
27	52			20	Nly v *	cb	0
28	51			21	NW *	c	
29	48		Statempt -	22	V *	cl	tr all
30	48			23	NW SW	cl	

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M. &Day	Therm.	Latitude or different parts.	Long. in	18 16 2 4	3 's Age.	Winds.	Atmofph	Rain, dew thunder hail, fnow &c.		
1777 May 1 Die Jovis	48		WN .	(a)	24	SE N1y * * *	cl	00		
2	47-5	-	- era 	19	25	NW **	c	15 40		
3	5.0			-	2.6	SW *		12 51		
4	53		20 Gr	-	27	Sly *	cb	18 0 21		
5	54.	× *	8.2	1 2	28	Nly v	ch	0.0		
6	55		1	1	29	Nly *	c			
7	53-2		SIN	141	n	SE * *	Ь	9		
8	541		29	101	=	Sly *	6			
9	54		12	1.1.2	2	NE *	cl	00		
10	-54		- 12	-	- 3	Nly *	cl			
11	53		1. 16	1	4	V *	cl	120 24		
12	48		12	1	5	NW v * *	cb	0		
13	482	1000	183	1.6	6	NW * *	cl	b		
1.4	50'2				7	SW **	c	100		
15	53				8	SW * *	c	0		
16	55		and a	5	9	Sly * *	cb	00		

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				37)		
M.&Day	Therm.	Latitude, or different parts.	Long. in or made.	I S Age.	Winds.	Appear. of the Atmofph.	Rain, dew thunder, hail, fnow &c.
1777 May 17	552	1	12	10	Sly **	cb	0
18	562	A State	12	11	Sly *	cl	0
19	581			12	Sly *	cl	0
20	59		1	13	v X	d	0
21	58%		Vew Se	1.4	ч * *	c	-0 2
2.2	57		114-14	P	NW **	c	29 - Paper
23	58	1.2.	10 B	16	N/W * *	C	97. 2.
24	60			17	Sly * *	C	12 1-12
25	59 ²	in p	17.12 - 12 12 - 12	18	Nly * *	c	
26	59		1	19	Nly '* *	Ь	
-27	5412	T	40	20	NE ***	cb	
28	55 ¹ / ₂			21	ت * *	c	
29	59 ¹ / ₂	am f pm. a	The P	22	Sly *	c	d
30	59 [±] / ₂	f&a		23	Sly *	c	

(38)

M.&Day.	Therm.	Latitude, or different parts.	Long. in cr made.	1 2 's Age.	Winds.	Appear. of the Atmofph.	Rain, dew thunder, hail, fnow &c.
1777 May 31	63	New Port	13 as	24	Sly * —	c	27. 1
1777 1Die. Sab. Junii	64		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25	Sly * —	c	82 - 21 92 - 21
. 2	63	pm. f		26	sw * -	cb	20 50
3	62 <u>1</u>	40° 41″	oo° 24"E made	27	WSW **	ſ	115
4	62 <u>1</u>	40 05	02 04 E	28	NW v	c	12 14
5	59 ¹ / ₂	41 51	02 50	n	SW v **	c	82 25
6	59	42 55	02 31	1	Wly **	c	24 00
7	60	43 28	11/2	2	NNW v * -	cb	78 24
8	60	42 28		3	v * *	Ь	
9	60 ^t	42 04 Off Cape Cod.		4	SE *	Ь	0
10	60	42 04	100 100 100 100 100 100 100 100 100 100	5	SSE * -	cb	
II	62	Off Cape Cod.		6	Nly *	Ь	

	(39)										
M.&Day.	Therm.	Latitude, or different parts.	Long. in or made.	Il 's Age	Winds.	Appear. of the Atmofph.	Rain, dew thunder, hail, fnow &c.				
1777 Jun. 12	611/2	42° 50″	00° 46″ E made	7	SE v * *	ſ	0.00				
13	59	42 54	01 00	8	NE v * *	ſ	0 00'				
14	59	Cruifing.	6 10	9	יש *	c	27 107				
15	61			10	Sly *	cb	201 85				
16	62 <u>1</u>		410 A.	11	ss₩ * ←	f	ootl				
17	631			12	*	cb	otl				
18	621	42 14		13	ت * *	cb					
19	62 ¹ / ₂	42 00	00° 39″ E	14	Nly v *	cb					
20	62	42 00	01 12	р	Nly ⊕ *	ch					
21	63	42 10	00 38	16	Nly *	cb					
22	611	41 17		17	Ely v **	cb	and a second				
23	60	Cruifing.	10.000	18	Syl ***	cb	0				
24	61	42 02	G	19	s **	cb	0				

(39)

(40)

M & Day.	Therm.	Latitude, or different parts.	Long. in or made.	1) 's Age.	Winds.	Appear. of the Atmofph	Rain, dew thunder, hail, fnow
1777 Junii 25	631	420 31'	33 4	20	WNW v	Ъ	ian, 61
26	631	42 26	- XE	21	SW v *	Б	1
27	67	pm. Cape Cod Bay	* *	22	Sly * *	cl	
28	68 <u>1</u>	Cape Cod Harbour.	9 12	23	SSW *	Ь	
29	68	-	9 11 # 3	24	Sly v *	Ь	16 62
30	68 <u>1</u>	à	14. July 14.	25	Sly v *	Ь	12 63

END OF THE DIARY OF THE WEATHER.

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SECTION

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SECTION II.

A DIARY of the SICK LIST, with fuch Occurrences as might be supposed to affect the Men's Health, from Sept. 1, 1776, 'till June 30, 1777.

SEPTEMBER.

1. THERE were on the fick lift, two with dyfenteries; one with fcurvy; one with fciatica; one with a confumption, or hectic; one with a cough; one with deafnefs; one with a ftrain :---8 in all.--We were now failing down the river St. Laurence.

2. The patient with the fciatica, and the other with the ftrain, recovered :---6 remained on the lift. We caught a few cod, and anchored for two hours off the island of St. John.

3. No alteration of the fick lift.—Off Hillfborough-bay at anchor. AM. a boat was fent up the river after the Lizard, with orders for Capt. Mackenzie.

4. One of the dyfenteric patients recovered, and three were added to the lift with dyfenteric fymptoms:—8 in all. Weighed, and anchored in the bay.—Nothing to be bought afhore, the rebels having plundered the few inhabitants of every thing.—A fever on board the Lizard, and likewife on fhore.

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5. The

5. The patient with deafnels recovered; and one with an abfcels was added :---8 on the lift. They are eat up with field-mice afhore.

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6. One of the patients who were added the 4th, recovered; and one complained of an ophthalmia:—8 on the fick lift. The inhabitants faid, that they caught the fever from the Lizard, or an armed veffel that was very fickly, which the Lizard relieved; and I have fince been informed, it was from the faid veffel that the Lizard's people got the infection. We bought a few bad and very dear vegetables, with a little milk for the fcorbutic patient, a boy.—Sailed at noon.

7. Another of those who were added to the list on the 4th, is well,—7 remain. AM. we failed through the gut of Canceaux; and PM. we caught a few cod opposite Isle Madame.

8. One complained of a dyfentery, and one of an abfcefs:—9 on the lift. A very difagreeable day.

9. One, who complained of a contufion, was added to the lift:—10 on the lift. We caught a few fifh, off Cape Breton.

10. The flux patient of the 8th recovered; one complained of a dyfentery, as did alfo the patient with the cough; and one of a fever, who belonged to the cutter, and had been on board the Lizard:—12 on the fick lift. Query, Do the fifh our men catch contribute to the dyfenteric

Sept.] THE SICK LIST.

teric fymptoms among them?——PM. we anchored in Beaver Harbour; one family ashore at this place only.

11. The patient added yefterday with the fever, is well :---11 on the lift. Our men caught plenty of fifh along fide of the fhip, and trucked with the fifhermen for dry fifh, milk, and potatoes. Only one family fettled afhore; an Indian and his fquaw came on board.

12. The patient who complained on the 10th of the dyfentery, is well :---10 on the lift. AM. we failed.

13. No alteration in the fick lift. We anchored in Halifax harbour; the Milford, and three armed veffels here.

15. No alteration of the fick lift; we were ferved fresh beef; forty of our men sent up into the wood on duty, with two petty officers and a serjeant.

16. One complained of a fever, yesterday PM. and had two paroxisms before he complained: am informed that he was one of the cutter's crew, and was on board the Lizard at St. John's:—7 on the fick list. Spruce beer was begun to be ferved to the spruce beer was begun to be ferved to the spruce beer I proposed to the captain to have a tent erected

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afhore

A DIARY OF 1776 ashore for the fick, but he would not allow it .--

Many of our people, especially the marines, got drunk, were ungovernable, and flaid on shore all night.

17. The patient who was added yesterday recovered. Three complained of dyfenteric fymp-9 on the lift. toms:

18 One complained of hæmorrhoides fanguinofæ:-10 on the lift. The men have fresh beef ferved them four times a week, and foft bread. The fcorbutic patient very ill; men fent to-day to the wood.

19. The other dysenteric patient, who was on the lift the Ift, (he was added the 29th ult. with a head-ach) and one of those added the 27th, recovered. One complained of a wound, one of

20. Another of those added the 17th, is well. Some of the fick fent afhore to walk.

21. The patient of the 18th recovered; and jefty's fhip Rainbow came in from New-York.

22. The patient who had an old cough, returned to duty; and the other of the 17th, is well. Two added with fevers, one of whom was returned well on the 19th only; he formerly belonged to a boat; the other was one of the long-boat's crew, I believe, and was on board the Lizard :-- 11 on the fick lift.

23. One

Sept.] THE SICK LIST.

24. The contuled patient of the 19th, well; three with dyfenteric fymptoms added to the fick lift:-14 in all. A very wet, difagreeable day.

26. One of those added the 22d, recovered, and the other patient of the 24th is well; one complained of feverish fymptoms:—11 on the list. AM. we failed on a cruise.

27. No alteration of the lift. One complained of a wound who does duty. Indifferent weather.

28. The patient added the 26th, recovered; and the dyfenteric patient returned to duty the 26th, but relapfed; one complained of an old ftrain, and one of a fcald:-13 in the lift.

29. One complained of old eruptions, who does duty. FM. we anchored in le Have harbour. It blew hard in the night.

30. The contuled patient of the 9th, the dyfenteric patient, one with a feald, added the 20th, and one with a flight complaint, recovered; one (a marine) complained of a fever, with dyfenteric fymptoms. Ten on the lift, viz, two with fevers; one with feurvy; one with a confumption; one with an ophthalmia; two with ftrains; one of a contufion; and two of wounds.

OCTOBER.

1. The two with ftrains, and one with a contufion, recovered :--7 on the lift. Our people caught fifth; they alfo truck'd for potatoes, pumpkins, and milk. We failed AM. on our cruife.

2. The patient with the fever, added the 30th ult. is recovered :--6 on the lift.

3. Two complained of fevers; one of them was taken ill feveral days ago :- 8 on the lift.

4. The man with the opthalmia is recovered : 7 on the lift.

5. No alteration of the lift.

6. One of those who were added the 3d, is recovered; one added with a fever:-7 on the lift.

7. The other patient who was added on the 3d, is well; one complained of a fever, and one of eruptions:--8 on the lift.

10. One added with a fever :—14 on the lift. The fever is uncommonly obftinate.

11. The two patients who complained the 7th, the one with the rheumatifm on the 8th, and

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12. Two added with a fever, and one with a contufion :—14 on the lift. PM. we anchored at Halifax; the Pembroke arrived from England.

13. Three complained of fevers, one of them was a wounded patient; the marine who was added on the 6th died of his fever; foon after his deceafe, many livid blotches appeared on him, particularly on the parts whereon he lay during his illnefs. The fever patients chiefly complain of their head; they are generally feized with rigours, followed, in fome cafes, with a vomiting and purging; this, in fome, continues. Others are feized with a ficknefs at the ftomach only, but fome with coffivenefs, which continues; all of them loathe their food, and moft of them complain of univerfal and wandering pains:—15 on the lift.

14. The contus'd patient of the 12th, well: -14 on the lift. The fever patients do not lay in bed in the day; they have very irregular remiffions of their complaints.

15. One marine added with the fever :--15 on the lift. It is not clear to me where we caught the infection, though, most probably, from the Lizard.-There was an armed brig at Hilfborough, St. John's, while the Lizard lay there, from which the Surgeon of the Lizard A DIARY OF

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zard thought they got their fever; we had communication with that brig.

16. One marine, and one feaman, complained of the fever :--- 17 on the lift.

17 The other lame patient added the 19th ult. the one on the 10th, one of those who were added on the 12th, and one of those added the 13th, recovered; one seaman and one marine complained last night of a fever; one marine added with the piles:—16 on the list. The blood of one of the patients added yesterday is fizy.—The men were served with fresh beef.

18. No alteration of the lift. The blood taken from a patient, who was added the 8th, was very little fizy, and of a very loofe texture; the blood of the other patient taken ill yefterday, was lefs fo.

19. Two complained laft night of a fever, one of whom was lately ill of it; and two today; of the fame diforder: one of them was feized with a bilious vomiting :--20 on the lift. I applied to the Captain to direct that the fhip might be fmoaked with vinegar and gunpowder, which was done, and that fhe might not be wafhed any more that winter. AM. we failed with two floops under our convoy.

20. One of those who were added the 13th, and two of them added yesterday, recovered; one complained of a fever, who had been ill four

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four or five days :— 18 on the lift. Two of the patients had coughs, and two had fixed pains. Towards the end of the paroxifm they complain chiefly of giddinefs, and of being lightheaded, as they termed it. The blood of one of those added to-day had a thin buff on it; and the craffimentum, though loose in its texture, bore too great a proportion to the ferum. Anchored at le Have.

22. The patient who complained of a fever on the 11th, recovered; three complained laft night of the fame diforder :—18 on the lift. Petechiæ very common among the patients. I applied to have the fhip fmoaked for an hour only, and it was done. (See October 2.) The men bought potatoes and turnips, and catched fifh.

23. A boy added with the fever, complains of a fore throat:—19 on the lift. Two of the fever patients have bad coughs; one added the 22d ult. with a flow fever, is heftic : he had

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been a long time ailing. AM we failed; and PM we anchored again.

24. One of the patients who were added the 12th, one who complained the 18th, PM (fee 19th) and one of those who complained the 21ft, PM (see 22d) of the fever, recovered. The first of these three was the patient with the eruptions:--17 on the list.

25. The man who was added the 17th with the piles, complained last night of a fever. The marine who was added the 15th with the fever, recovered :-16 on the list. One of the fever patients was fized with the piles. A number of pollock were caught in one of our boats.

27. One of the patients added the 16th, recovered; two added with fevers, one of whom was afflicted with it before. One complained of the itch, a marine, and one of a flight contufion; both capable of doing duty:-16on the lift.

29. Two patients, one a marine, complained last night, and three this morning, of a fever; the

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the two feized laft night complained much of their breafts:-21 on the lift. One of those added the 27th was delirious, his tongue black, and his voice altered; one complained of a ftrain, but does duty.

30. The marine added the 28th, and one of those added yesterday with fevers, recovered; one complained last night of a fever, who returned to duty the 20th, and one is added with a contusion :-21 on the list. The patient with the flight contusion of the 27th, recovered; a number of the men afflicted with flight feverish ailments, who have not complained. PM. we anchored at Coal Pits.

31. The two that complained the 28th, PM. (fee the 29th) recovered. The marine who was returned well the 25th, relapfed; one complained of a fever, and the ftrained patient of the 29th, added :-22 on the lift, viz. 16 with fevers, 1 confumptive patient, the boy mentioned the 22d ult. the boy with the fcurvy, 1 with eruptions, 1 with a contufion, and 1 with a ftrain, befides the patient in the itch. All the relapfed patients are very ill.

NOVEMBER.

1. Two marines, one added the 16th, and one the 17th, and one of those added the 27th H 2 ult. A DIARY OF [1776

ult. with fevers, recovered; a boy complained of a fever: 20 on the lift. I applied, and had the fhip well fmoaked twice, AM. with vinegar and gunpowder, and PM. with junk and tobacco fires, and with loggerheads quenched in tar. The fhip was covered every where with a white powder, by the fmoaking with gunpowder, and fmelt very ftrong of fulphur, as it did of tobacco by the fecond fmoaking. Two of our boats were tent up to Fort Cumberland.

2. The other patient who was added the 16th, the one on the 20th; one of those on the 29th ult. and the boy yesterday all ill of fevers, with the strained patient added on the 29th, are recovered; one complained last night of a fever; -16 on the list, besides the man with the itch, and some with coughs. The air was very agreeable last night to the men who lay in the tiers; upon every inspiration I tasted the fulphur. The boats returned, and brought a little fresh beef on board yesterday for the Captain and Officers.

3. One who complained on the 31ft of the fever recovered; one complained of it laft night, he had been ill four or five days; his worft complaint was a purging, and he had the piles; his ftools are porraceous. Several of the fever patients have the fame kind of ftools; a number of them have coughs:--16 on the lift. AM. we failed.

4. Two

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4. Two complained laft night of the fever, one of them had a purging, and had been ill a fortnight; the other was taken ill the 30th ult. and one complained of a contusion of his breast from fighting :- 19 on the lift.

5. The man who complained the 29th ult. and the two added yesterday, with the fever, recovered :- 16 on the lift. The contused patient of yesterday was seized with a fever. Off Annapolis, we anchored in the Bafon.

6. The patient added the 2d with a fever, recovered :-- 15 on the lift. Fires were lighted in the hatchways. AM, we fent a boat up to town.

7. The patient who was added the 3d, recovered :-- 14 on the lift, belides the itch patient. AM. we failed.

8. One complained of the fever last night, who had been ailing a fortnight :-- 15 on the lift.

9. No alteration of the fick lift. I applied to have fires lighted in the hatchways.

10. Fifteen still on the lift. We could not light fires in the hatchways. We anchored a little.

11. The relapsed patient added the 30th recovered; the man with the itch added with a cough :-- 15 on the lift. One complained of a strain, but does duty.

12. The

12. The patient taken ill the 30th ult. and who was added on the 4th, returned the 5th to duty, relapfed on the 9th, but did not complain until last night of a fever; one added with an inflammation in his leg, who had the fever lately:-17 on the list. The fever patients are all better, except one, who is very bad. I procured fires to be lighted in the hatchways.

14. The patient added yesterday with the cold, recovered :—17 on the lift, besides the patient afflicted with the itch. Cruizing off the Bay of Fundy.

15. A marine complained laft night of the fever; both this, and the relapfed patient added the 12th, caught the infection from a marine, recovering of the fever; he had been very ill, and was removed from the fick birth, back to his own, left, as he was very timid, the groans or appearance of the patients in the fick birth, might frighten him into a relapfe. The patient who was added the 8th, and the one on the 13th with the wound, recovered :--16 on the lift. The ftrained patient who did duty, is now well. We could not get the fhip fmoaked.

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Nov.]

17. The man with the piles, added the 25th with the fever; one of those added the 22d, (being fent on board of a prize) and the yefterday's strained patient, were struck off the list; one complained last night of a fever, who was taken ill two days before; he caught it from the seamen fent on board the prize yesterday; they were messmates:—16 on the list. We could not get the struck off.

18. The patient added the 16th with the tumour, recovered; one complained last night of the ear-ach, and two of a fever, AM.-18 on the list.

19. A boy complained last night of a fever, he knew not how long he had been ill; a boy who lay close to him was also feized with it; one was also added with a contusion:-21 on the list.

20. The contufed patient of the 4th, the one added the 18th with the ear-ach, and yefterday's contufed patient, recovered. A marine complained of a fever; he fucceeded to a birth where two marines, who had had the fever, formerly lay, one of whom died the 13th ult. One added with a contufion :-20 on the lift. We fell in with the Lizard; the fever con56

continued to rage on board of that fhip; one man having died this cruize, and feveral before. They wash the ship, and smoak her afterwards for a little time. Eleven are on the sick list, ill of the fever, and several of the officers have been seized with it.

21. The two other patients of the 18th are well; the fever patient (difmiffed yesterday) relapsed again from drinking; and one added with an ulcer.-20 on the lift.

22. A boy complained of the fever, who was added to the lift, making 21.—AM. we anchored at Halifax — The fick quarters are fo crouded, that, 'tis faid, there is no room for our people :— they are indeed fhamefully bad quarters.

23. The contused patient of the 20th, and the other of yesterday, are well; the itch patient, besides having a cough, is feized with the fever; and one is added with a wound :- 20 bad, besides my first mate, who had an attack of the fever.-Got the ship, with the people's bedding, smoaked.-The last supply of necessaries being (by means of our sickness) expended almost fix weeks sooner than the allotted time, I applied for more, but the commissioner would not allow any.

24. One complained of a contusion :-21 on the lift. The men were ferved with fresh beef.-The

We have with the Laked, the Your

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Nov.] THE SICK LIST. 57 The fhip and bedding fmoaked again.—My mate recovered.

25. A gentleman, who caught the fever from his mels-mate, was added to the lift, making 22.—The fever patients are in a convalefcent ftate; but two of them, in particular, are extremely weak.

7 26. My fecond mate was feized vefterday with the fever; a boy (who had been lying about without a hammock for two months paft) complained of the fame ;-24 on the lift .- Eleven fever patients on the recovery, eight of whom are marines; the confumptive patient, and he with the diabetes, (or the hectic patient) alfo the boy with a fevere fcurvy, and a marine, with old eruptions from a venereal caufe, making in the whole 15, were fent to the fick quarters. In a few days all the fick at quarters are to be removed to George Island; whereon a fort of hospital is to be fitted up, and to be attended by a furgeon, who had been appointed by Admiral Shuldham furgeon to an hofpital fhip .- Our fhip was thoroughly cleaned, washed with hot vinegar, and afterward imoaked with gun-powder, junk and tobacco, as before .- Every thing was got on deck, the fick taking all their cloaths with them. After all this trouble, 60 fupernumeraries were fent on board of us from the Rainbow; eight of whom had the fever, two I had

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had contufions, one affected with fcorbutic fymptoms, and another with an ulcer.

27. My mate is recovered. One complained of a fever :-- 7 in the lift, viz. three with fevers, but not very ill, and four with complaints of lameness, besides supernumeraries. Upon my representation of the fatal consequences to be apprehended to our ship's company from the fever among the fupernumeraries, the Captain applied to the fenior Officers, and got an order to fend back all the eight fever patients to the Rainbow : five of them complained of a fevere pain in their fide or breaft, with a cough .--- Thefe parts had been hurt by falls not long before, and by lying about on chefts in the Rainbow .- They had been fent on board of her from the Pembroke, which they had cleared along-fide of the wharf, and uled to go into town, get drunk, and lie in the ftreets, and in infected houses; but the furgeon of the Rainbow had no fufpicion of the infection being on board, and was furprifed to hear it .-- Her men were afterwards very fickly, as I was informed.

28. One complained of a rheumatifm, to which he was fubject, efpecially in foggy weather:—8 on the lift, befides the four lame fupernumeraries:—fcrubbed all hammocks.— PM. we weighed, and anchored off Major's Beach. THE SICK LIST.

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29. The patient added on the 24th is well. One complained of a cough :—8 on the lift. One fupernumerary was added laft night with a contufion; five of them are ill.

30. One complained laft night of a ftrain, and another was added with rheumatic pains, and a third with a fever, who meffes with the patient added the 27th, making 11 on the fick lift: viz. four with fevers, two with the rheumatifm, one with a cough, three with ulcers, and one with a ftrain: befides five fupernumeraries, viz. one with fcorbutic fymptoms, three with contufions, and one with an ulcer. Could not get the fhip fmoaked.

DECEMBER.

1. The patients added the 26th and 27th ult. and the two rheumatic patients, recovered : -7 in the lift. The two contused supernumeraries of the 26th are recovered; three of the others remain ill.—I could not get the ship smoaked.

2. The boy added on the 26th, and another with a cough, on the 29th ult. are well :—5 remain on the lift. One fupernumerary, who complained laft night of the fever, is recovered ; three of them are ftill ill; one of them, with the I 2 ulcer, ulcer has fractured his clavicle lately, and another has an old rupture.—Squally weather with fnow.

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3. The boy relapsed last night; he has an inguinal rupture of a confiderable standing, which he never mentioned before :-- 6 on the list. I got the ship smoaked for a short time.

4. A boy added with an abfcefs :-- 7 on the lift, befides the three fupernumeraries.

5. No alteration of the lift. The ruptured fupernumerary difmiffed.

6. One complained of the fever; he had lately been exposed a day and a night to rain, in affisting to get off a transport that had run a-ground :---8 in the lift. One supernumerary complained last night of the sever; three of them are now ill. Sailed, AM. with the Amazon, Scarborough, and 34 transports, to New-York,

7. A marine, who attended the fick before they went to quarters, complained of the fever: 9 in the lift, befides the fupernumeraries.

8. Last night three complained of the fever; two of them relapsed. The boy added the 26th ult. is well:—11 in the lift. The supernumerary who was added the 6th, is well; two complained last night of the fever; four more of them are now ill.—The sever patients complain much of chillness, and are dejected; the pulse is neither very quick nor full; the tongue is whitish, and they complain a little of thirst; three

THE SICK LIST. DEC.] three of those added last have bad coughs, and one of them was at first feized with a fyncope.

9. A marine complained last night of a fever; one added with a wound, and another with an old strain :--- 14 in the fick lift. One of the fupernumeraries added yesterday, is well; one complained of the fever, and one of the rheumatism; 5 are now ill. A gale of wind.

10. The strained patient added the 30th ult. and who had the rheumatism, is well. Laft hight one was added with the fever, and another with a contufion :--- 15 in the lift. A fupernumerary, (an old man) who had lately had a cough, complained of the fever; 6 supernumeraries are ill. The gale continues. Loft company of the Scarborough and many of the transports. 11. One complained of the fever, who had it before, and one of a fracture :-- 17 on the lift.

12. One of those added on the 8th, and another on the 18th, with fevers, are well; one complained of a fever, and two of contusions : -18 on the lift. The rheumatic supernumerary of the 9th is well. One (from meffing with the gentleman who had the fever) was feized with it last night, and another AM. 7 ill.

13. The patient of the 6th, and one of those (a marine) who was added on the 8th, with fevers are well; one complained of the fever ;--17 on the fick lift. The fever supernumerary of

62 A DIARY OF [1776 of the 9th is well; 6 of them are ill. PM. the Beverly brig, one of the convoy, made a fignal of diffrefs; being extremely leaky, the people were taken out of her, and fent on board of different fhips; an officer, with fixteen foldiers, three women, and their children, were brought on board of us.

14. A marine complained last night of the fever; and one added AM. with a contusion: 19 on the fick list. One of the supernumeraries who was added on the 8th, and one on the 12th with fevers, are well; four remain fick. A gale of wind.

16. One of the patients with an old ulcer, one added the 8th, with a fever, another of the 10th, with a contufion, and the contufed patient of the 14th, are well; one complained of the fever:—15 on the lift. Two fupernumeraries added laft night with the fever, and another, AM. with an ulcer; 7 of them are ill. One of the foldiers complained of a fcrophula. A gale of wind.

17. The boy added on the 4th, and the marine on the 7th, are well; one complained last night of the fever, and one AM. of a strain :---

Dec.] THE SICK LIST: 63 15 in the fick lift. The fupernumeraries who were added yesterday, are well; two more added with contusions.

19. The patient added the 12th, and one of the 17th, with fevers, are well; one complained of a rheumatism, to which he is subject, and another of a contusion :—18 ill. No other alteration. Very bad weather.

20. The fever patient of the 14th, and one with a ftrain of the 17th, are well; a marine, who fome time before had been ill of the fever, relapfed:—17 on the lift. The worft complaint among the fever patients at prefent, is a harraffing cough. The fupernumerary added the 16th with an ulcer, is recovered; 7 of them are ill, befides the foldier.

21. The patient of the 15th recovered; one who had been put in an infected birth, was feized with the fever:—17 on the lift; but no other alteration. By enquiring of the fever patients, I eafily find by what means they contract infection. We have had very bad weather, inceffant lightning, and a heavy fea; the deck where the people

ple lay is very wet, and the air hot and difagreeable, from the hatches being batooned down; numbers of the fick are wet in their hammocs, from water running down upon them; and being fo crouded with people, the fick birth is not only fmall, but in a bad place.

22. The rheumatic patient of the 19th is well; one complained of a ftrain 1-17 in the lift. One supernumerary added with the fever; 8 are ill, besides the soldier.

23. Two complained last night of the fever: 19 on the list. I applied to have the ship. smoaked; but the decks were washed, and fires made afterwards between decks.

24. The patient added the 22d is recovered; a marine complained laft night of the fever, and another of an habitual rheumatism:—20 in the fick lift. One of the supernumeraries added with the rheumatism; 9, besides the soldier, ill. Fires were lighted in the hatchways.

25. One added with an habitual rheumatifm : -21 on the lift. The fupernumerary added the 22d, is well; one complained of a cough and rheumatifm, and one rheumatic patient was feized with the fever; 9 are ill befides the foldier. Fires were lighted in the hatchways.

26. The marine added the 23d is well; one added with an abfcefs:-21 on the lift. The ruptured fupernumerary complained; 10 ill.-One foldier complained of an abfcefs, and an habitual

THE SICK LIST.

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habitual flux; 2 ill. PM. the other man, who was added on the 23d, died of his fever, delirious; he was remarkably dejected from his being first feized, and continued fo. Very bad weather.

Dec.]

27. A marine, added the 28th with a fever, and the patient of the 25th, recovered; fix complained of fevers last night :- 24 in the list, 14 of which are fever patients. Two of the rheumatic fupernumeraries have fevers. The fick birth fmelt fo offenfively, that we were obliged to have it fmoaked to-day.

28. The patient added the 21ft is well; two, (one of them a marine) complained last night of the fever :--- 25 on the lift befides the fupernumeraries. Fires were lighted in the hatches, and the fick birth fmoaked and cleaned.

29. One of the contused patients of the 12th, and the patient of the 26th, are recovered; one complained last night of the fever :-- 24 in the whole. The fupernumerary of the 18th recovered, and one complained of the belly-ach; 10 ill befides the foldiers. The fick birth was again cleaned and fmoaked.

30. The marine added the 24th, and two of the patients added the 27th, recovered; one complained of a fever, another of a rheumatifm, and a third of an inflammation :---24 in all. The supernumerary added yesterday recovered, but PM. he was feized with the fever. No other K

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E1776 A DIARY OF alteration: The fick birth was again cleaned and fmoaked.

31. One patient added the 18th, one of the 27th, one of the 29th, and another of yesterday; with fevers, are recovered; a marine who lay between two fever patients, complained last night, and two this morning of the fever :--23 in the lift, viz. fourteen with fevers, chiefly in a convalescent state, two with the rheumatism, one with a fracture, one with a ftrain, one with a contufion, one with an inflammation, one with a wound, and two with foul ulcers. The fupernumerary added yesterday is well; nine remain fick, viz. five with fevers, two with the rheumatifm, (one of whom does duty) one with a rupture, one with contufion, and one with an ulcer. Two foldiers, one with the fcrophula, the other with an habitual flux :- 35 in all. 9 PM, we arrived at Sandy-Hook. Lighted fires in the hatchways, and cleaned the fick birth.

JANUARY, 1777.

1. Two (one, the marine who had a ftrain) complained laft night, and two this morning of fevers; two added with old coughs :- 28 in the lift. Two fupernumeraries added with fevers, one with an old cough, one with the fcurvy, and another with the rheumatism; 14 ill. A paffenger in the cabin, who caught the infection from

Jan.] THE SICK LIST. 67 from Capt. Dalrymple's fervants, complained of the fever; 45 in all, including the two foldiers. Sailed up, and anchored off New York. Lord How commands, but is very ill. Cleaned the fick birth well.

2. Sent twelve fever patients, chiefly in a convalefcent ftate, to the hofpital at Brooklyn, Long-Ifland; one of thofe added the 27th, and another of the 29th, with fevers, are recovered; three complained of the fever, one of them is a fervant of the Captain's, who had been ill before, and another has a contufion, making 18 in the whole. Three fupernumeraries fent to the hofpital with fevers; one added with a contufion, making 13 ill, befides the paffenger and foldiers. Fires in the hatchways.

3. Sent four with fevers, the patient with the punctured wound, whofe hand was inflamed, and another with a bad ulcer, to the hofpital :---12 on the fick lift. Three fupernumeraries with fevers, and the fcorbutic patient were fent to the hofpital; 9 ill befides the paffenger. The foldiers and women were landed; the fhip well cleaned, wafhed with vinegar, and afterwards dried with fires.

4. Sent one of those added on the 2d with a fever, to the hospital; a patient of the 31st ult. and another of the 1st, with fevers, are well, as also the rheumatic patient of the 24th ult.—8 in the fick lift. Fires were lighted. Frost.

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5. My fecond mate was again feized with the fever last night :--9 on the list. Two supernumeraries complained, one of a scald, the other of an inflammation; 11 bad. Spruce beer served to the ship's company.

6. One added with an inflammation:-10 on the lift. Three fupernumeraries added with fevers; 14 bad.

7. One added with the rheumatifm, making 11 on the lift. The fupernumerary added the 5th, with an inflammation, recovered; 13 ill.

8. The patient of the 30th ult. with an inflammation, recovered:—10 on the lift. The paffenger is well; but no other alteration.—I am informed that the phyfician of the hofpital thinks there is nothing the matter with our fever patients. It is true most of them fent the first day were in a convalescent state.

9. The patient with the fracture, added the 11th ult. one of those with a cough on the 1st, and my mate, are recovered. Sent the boy with the rupture to the hospital :---6 in the list. Sent fix of the supernumeraries to the hospital; viz. two with the rheumatism, one with a cough, one with a fever and rupture, one with an ulc r, and another with a contusion; 7 of them ill yet.

10. The other man, added the 1ft inft. with a cough, another of the 6th, are well; a marine, who had the fever twice before, was feized laft night with it, and another this morning.—6 in the

Jan.] THE SICK LIST. 69 the lift. Sent fix of the fupernumeraries to the hofpital; viz. two with the rheumatifm, one with a cough, one with a fever and a rupture, one with an ulcer, and one with a contufion; 7 of them remain ill.

10. One man added the 1ft with a cough, and another on the 6th, are well; a marine, who had the fever twice before, had a relapfe laft night, and one this morning.—6 in the lift. Two fupernumeraries complained of the fever; 9 of them are now ill. Two of them have the fcurvy, tho' one of them does duty. The thermometer being placed on deck, flood at 25.

11. One of yesterday's patients is recovered; one complained of a fore throat, and one of a contufion:—7 are ill. Two of the supernumeraries added on the 6th, do duty; one is added with a scorbutic lumbago; 8 of them are ill, one of whom has the scurvy. Sent the marine, who was added yesterday, to the hospital.

12. Two complained of nephritic fymptoms : 8 on the lift, befides the fupernumeraries. Many of the men get drunk every day with New-England rum.

13. Yefterday's patients are recovered; three are feized with fevers, a fwelling about the glands of the face and throat, but they complain chiefly of their heads, and deafaefs; three added with coughs, and one with dyfenteric fymptoms:—13 on the lift. One of the contufed fupernumeraries,

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ries, who was added the 17th ult. and has fince been feized with the rheumatifm, is recovered; one complained of the fever, one of a cough, and one is relapfed into the fcurvy; 10 of them are now ill.

14. One of the patients added yesterday, died of his fever at 3 AM. how long he had been ill before he complained, I know not; the other two were fent to the hospital; one complained fupernumeraries added on the 6th, one of those on the 10th with fevers, one on the 11th, and yefterday's fever patient, are recovered; 6 of them remain ill. The Flora arrived from Halifax; three of the men we fent to fick quarters; there came in her the boy who was fo ill of the fcurvy, and two others. The gentleman and two of the men, who were put on board one of our prizes, were loft by the prize being run ashore near the light-house there ; the other two were faved, and came in the Flora. Some more of our men, who were on board of another prize, came in her. Our fhip was haled alongfide of a wharf, and moored out of the ftream of ice.

15. The contuled patient of the 11th, and one who was added the 13th with a cough, recovered; two added with the fever, (one of whom came in the Flora) one with a contufion, and the fcorbutic boy with weaknefs :—16 in the

THE SICK LIST.

Jan.]

the lift; three of the fupernumeraries who were ill having entered for the fhip. One fupernumerary complained of a cough; four of them now ill.

16. The patient added the 2d with a contufion, and the other with dyfenteric fymptoms, are recovered; one complained of a fuppreffion of urine, and two more of the ailing fupernumeraries entered for the fhip :—17 in the lift. One fupernumerary recovered, and one ftill remains ill

17. The rheumatic patient of the 30th ult. and the fever patient of the 15th, who came from the Flora, recovered; one complained of the fever, and one of the rheumatifm, who had it lately:—17 on the lift. The contufed patient added the 14th, is ill of the fever.—No other alteration.

18. Sent the patient added the 16th, and one yefterday with a fever, to the hofpital; alfo one fcorbutic patient, formerly a fupernumerary, was fent to the hofpital fhip; one complained of a cough:-15 in the lift. Sent the fcorbutic fupernumerary to the hofpital fhip; one complained of a cough. Very cold.

19. Sent two patients to the hofpital with fevere fevers; viz. a fupernumerary added on the 10th, but fince entered for the fhip, and one with a contufion; a fever patient of the 15th is recovered:

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recovered :---12 remain on the lift. No other alteration. Smoaked the fhip.

20. The carpenter added with the fever, and another with fcorbutic fymptoms, making 14 on the lift. One of the patients added the 13th with a cough, is feized with a fever. No other alteration. Smoaked the fhip.

21. Sent three with fevers to the hofpital; one of them was added the 13th with a cough, another on the 18th, and one, lately entered, who complained laft night. The patient of the 11th, with a fore throat, and the fupernumerary of the 15th with a cough, are recovered. The patient fent the 3d to the hofpital, with the inflammation, was fent back laft night for irregularity :—11 on the fick lift. The fhip was wafhed, againft my inclination, but though fires were lighted afterwards between decks; they cannot dry the fhip thoroughly. 9 PM. was an alarm of fire afhore, but it was foon extinguifhed. When the thermometer was at 52, there was a fire in the gun-room.

22. Three who were returned from the hofpital on the 20th, are again added with fevers, and two other men complained :--16 in the lift. The fupernumerary is recovered; and here I must obferve, that the diffinction between the fhip's company and fupernumeraries will be no longer obferved. Fires were lighted in the hatchways, and fome *fp. falis* evaporated between

Jan.] THE SICK LIST. 73 'tween decks. The ship's company employed in washing their cloaths.

23. The scalded patient of the 5th is well; and the scorbutic patient of the 20th is sent to the hospital-ship; one complained of a cough, and a drunken sellow, of the sever :---16 in the list. The men employed as yesterday; lighted fires.

24. Yefterday's fever patient is well; one who lately had a cough, complained of the fever: 16 in the lift. A very dirty bad day.

25. Two complained last night of fevers, one of whom had a cough :-18 in the list.

26. The patient added the 23d with a cough, does duty; one added with a cough, and one with a fever:—19 in the lift.

27. One rheumatic patient, who returned from the hospital, where, he fays, he got nothing for it, was added to the list, making 20 in the whole. Last night there was a false alarm of fire on shore.

28. The one added on the 24th with the fever, is recovered, but has scalded his wrift; one complained of excoriations :-21 in the list.

29. A patient who returned from the hospital on the 20th, and complained the 22d, and one of his meffmates who was infected by him, and complained on the 25th, were fent to the hospital; I believe both of them have been irre-

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gular; the patient added the 26th was also fent to the hospital. One added the 15th with a contusion, and yesterday's scalded patient, are recovered; one added with indigestion, one with an inflammation, and one complained of chilblains: - 18 in the lift.

30. The carpenter, who was added the 20th, recovered; one complained of a contufion, and one of a head-ach, who is not on the lift:—18 in all.

31. The patient added the 26th with a cough, had the fever, and is difcharged; one added with the fever;—18 in the lift; viz. four with fevers, three with the rheumatifm, one with the feurvy, (feized with indigeftion); two with inflammation; three with contufions, one with a furuncle, one with excoriations, one with chilblains, one with an ulcer, and one weak patient, befides one with the head-ach.—The fhip was haled into the ftream, and 54 prifoners were fent on board of us from a prifon fhip.

FEBRUARY.

1. Three marines, (one of them with an inflammation) and one feaman who attended the fick, complained laft night of the fever; the contufed patient of the 30th is difcharged, and the other patient of the 30th is recovered; one complained of the fever: -21 in the lift.

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Feb.] THE SICK LIST.

2. The contuled patient of the 2d ult. had the fever, and is recovered; and the marine with inflammation, added yefterday with a fever, is recovered, as alfo the one with chilblains; one of our men died at the hofpital laft night, he was fent there the 29th; one of his meffmates, upon hearing it complained of the fever; four returned from the hofpital laft night, one of them added to the lift, who is very weak, and not free of the fever; one yefterday, with an old rheumatifm, making, in all, 22 in the lift.— Sailed and anchored PM. near Hell-gates, that is between the Continent and Long-ifland.

3. The patient with an inflammation, of the 21ft; one with an inflammation of the 29th ult. one of the marines added the 1ft, and yefterday's frightened patient, recovered; one complained of a relapse of the fever, and another of a cough, who was at the hospital :---20 in the lift. Sailed through Hell gates.

4. Two marines complained of coughs; one of a rheumatifm, one of a ftrain, and one of an ulcer:-25 in the lift. PM. we anchored off Gardener's Island.

5. The frightened patient relapfed again laft night; the officer of marines, and the gunner added with the fever, and one with the feurvy: -29 in the lift. PM we anchored at Rhode-Island. Sir Peter Parker commands.

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6. One of those added the 22d ult. and the feaman of the 1ft, with fevers, are recovered, as also one added the 4th with a ftrain; five complained laft night of the fever; one is the officer of marines' fon, who got it by fleeping with his father; and another of them caught it from a fick meffmate:--31 in the lift. The patient added the 29th ult. with indigeftion, is very ill of the fcurvy; a fingular cafe. The fpruce beer is out-ferved grog to the fhip's company.

7. One added the 30th ult. and one of those yesterday, are recovered of their fevers; two complained last night of the fever :--31 are on the lift.

8. The other marine, added on the 1ft with a fever, one added the 4th with a rheumatifm, the frightened patient of the 5th, and two of those added the 6th, are recovered; one added with a feald, and another with a contustion :-28 in the lift. All the prisoners, except nine of them who were English and Irish, were fent on board a cartel, and fix of those are very ill of the feurvy.

9. One of the holpital patients, added the 22d ult. one on the third with a cough, another on the 4th, and one on the 6th, are recovered; two complained of fevers, and one of the belly-ach; the fix men added with the fcurvy. PM. fent one man who was very ill of the fcurvy, and two of the remaining fix to fick quarters:--30 in the lift.

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THE SICK LIST:

Feb.]

10. The patient of the 27th ult. and one added on the 6th, are recovered; two added with fevers, one of whom had it twice before, and relapfed laft night, the other is a marine :--30 in the lift. A pretence is made, whence it originates I know not, that more of our fick cannot be accommodated at fick quarters afhore, though in fact they are not half full. Very bad weather.

11. Two added with the fever laft night, one of them a marine, who has had it four times, and one added this morning with the fever; one with the fcurvy, and one with a rupture, making 35 in the lift, five of whom, marines, got cold by lying under the half-deck while the prifoners were on board. PM. I was obliged to remove my thermometer to my cabin; an exceeding ftormy day. A goat, which will make four dinners, was killed for the fick.

12. The gunner added the 4th, one added the 9th, and one of yesterday, (all fever patients) and yesterday's patient with a rupture, are recovered; three added with fevers, one of whom is often ill, and one with a rheumatism, making 35 in the whole.

13. One added the 13th ult. with a fever, who had also an obstinate swelling on the left side of his head, one of the 9th, one of the 11th, and one of yesterday, all fever patients, recovered; one added with fever, one with nephritic symptoms,

toms, and a third with an habitual rheumatifm : -34 on the lift. We failed on a cruife.

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14. The one added on the 10th with a fever, is recovered; five added with fevers, three of whom have coughs, making 38 in the lift. The fick-birth changed from a-midfhips to the ftarboard fide of the main hatchway; it is cleaned and fmoaked as often as the weather permits.— The ftarboard bay, where the prifoners were confined, though it has been well cleaned, and fmoked with gunpowder, ftill retains a very difagreeable fmell.

15. One of those added the 12th, is well; one complained of a contusion and fever last night; the man who had the excortations, is feized with the fever :---38 in the list. PM. we anchored at Block-Island.

16. The patient with nephritic fymptoms,
added the 13th, is well; two added with coughs:
37 in the lift. We failed again.

17. The patient added on the 10th of Nov. with an ulcer, and one of the fever patients added the 12th, are well; two added with a relaple of the fever, (one a marine) making 37 in the lift. — The Captain gave a fheep to the fick.

18. The patient added the 7th, and one of those of the 16th, are recovered; one added with frost-bit toes, and an old rheumatic patient with a fever:

Feb.] THE SICK LIST. 79 a fever:-37 ill. The fick-birth cleaned as often as the weather will permit.

19. One of the marines added the 4th, one on the 5th, and another the 11th with the fcurvy, and one on the 17th, are recovered; fix added with fevers, making 39 in the lift. We got fome oranges and limes out of a prize floop from Hifpaniola, for the use of the fick.

20. The other marine added the 4th, and one of yesterday's patients, are recovered; three added with coughs and fore throats, and one with a feald :--4t in the fick lift. PM. very cold; anchored at Block-Island.

21. Two of the fever patients added the 14th, one of them a marine, the other marine added the 17th, and one of them added yesterday, is recovered. The patient with the ulcer, who recovered the 17th, cut his leg again by getting drunk yesterday, and has now had a bad ulcer; one complained of scorbutic symptoms, and another of an excoriation, making 40 in the list. Last night was by much the coldest we have had during the winter; in my cabin, in the cock-pit, the thermometer was 26. This morning we failed.

22. The patient added the third, the fealded patient on the 18th, the marine on the 10th, one on the 2d with the rheumatifm, one of those on the 16th, one of the 19th, and two with coughs,

coughs of the 20th, are recovered; two complained of fevers:-34 in the lift.

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23. One added the 14th, and one of yesterday's fever patients, recovered; three, (one of them a boy) complained last night of the fever; one added with a contusion, and one with excoriations:-37 in the list. One who was seized with feverish symptoms last night, recovered.

24. The other patient added the 22d, is recovered; two with fevers, of whom had feveral relapfes, added to the lift, making 38 in all, befides fome with colds, who do duty.——Bad weather.

25. The patients added the 21ft, and one of the fever patients on the 23d, are well: one complained of the belly-ache, one of a rheumatism, and two of contustions:-39 in the list, and a number ailing who do duty.

26. One with contusions, and another with excoriations, added the 23d, and one of yesterday's contused patients, are recovered; four complained of fevers, and one of a contusion :--41 in the fick lift. The ship was cleaned. PM. one of them added the 19th, died of his fever : he is the 4th who has died of it. We spoke with the Orpheus, having a prize. I hear they have seventy on their fick lift, chiefly with fevers, which they caught, it seems, from some prisoners whom they had on board. I have fince been told by the surgeon, that they lost twelve or thirteen

THE SICK LIST.

March]

thirteen on board, and a good many at fick quarters, by this fever. He did not use the bark.

27. One of the 17th ult. with a rheumatifm, one added the 9th, the frequently-ailing marine of the 11th, one of the 24th, a contuled patient of the 25th, and one of yesterday's fever patients are recovered; one complained of a fever, whose messimate had it lately, one with a furuncle, and one of a scald, making 38 in the whole. Fires were lighted in the hatchways.

28. The patient added the 9th with the bellyach, one of those added on the 19th, and one on the 26th, with a contusion, are recovered; two added with the fever, and one with an inflamed arm, making 38 in all :—viz. fixteen with the fever, feven with the fcurvy, three with rheumatism, one with a bad cough, one with the belly-ach, one with the ear-ach, one frost-bit, one with excoriations, one wounded, one with inflammation, and two with furuncles.

MARCH:

1. One of those added the 19th, one with a belly-ache on the 25th, and one of those with fevers on the 26th ult. are recovered; four complained of fevers, (one of them a relapsed patient) and two of the rheumatism, who are subject to it :-41 in the list.

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2. One who had a furuncle, and was feized the 1ft ult. with a fever, is recovered; one complained of a fever :---41 in the lift. One of the fcorbutic patients, who was a prifoner, has fevere froft-bit toes, but did not complain of them before.

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3. One of the marines added the 4th, one of the fever patients of the 26th, the two furuncle patients, and two of the fever patients added the 1ft, are recovered; one complained last night of a fever, one of a diabetes, one of a contusion, and one of an ulcer, making 39 in the list. We spoke with the Orpheus, whose people are still very fickly.

4. The patient added the feccond, who came from the hofpital, and one with an inflammation on the 28th ult. are recovered; three complained of fevers, one of fcorbutic fymptoms, and one of the furuncle patients, who returned to duty yesterday, is relapsed, making 42 in the lift. PM. anchored at Block-Island.

5. One of those added the 22d of January, who had been at the hospital, and has had feveral relapses fince, one added the second, one with the diabetes of the third, and one of those who were added yesterday with the sever, recovered; one complained of the sever:—39 in the list. PM. the Orpheus went into Rhode-Island. The inhabitants brought off a little fresh stock, potatoes, beet roots, and eggs.

6. One

March.] THE SICK LIST. 6. One of the patients added the 19th ult.

and one of yesterday, are recovered; one complained of an inflammation, making 38 in the whole. PM. we flood towards Rhode-Ifland to get a bullock, fome fowls and potatoes. Every thing very dear.

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ult.

7. One who meffes with two fever patients was feized with it, and one complained of a contufed knee :- 40 in the lift. The Captain ordered fresh broth for fifteen of the worst of the fick people, who could use it; and the purfer ferved a number of the fick with fresh beef in lieu of grog, which I had ftopped.

8. One of the fcorbutic patients added the 9th, one of the fever patients of the 28th ult. one of those of the 4th, and the furuncle patient are recovered; five complained of fevers, making 41 in the lift. The Captain ordered broth again for the fick.

9. One of the scorbutic patients added Jan. 18, with the fever, the three rheumatic patients (one of Jan. 26, and the other two of the first inst. one of those added the 5th, the other the 27th ult. with fevers, one of the fever patients of the Ift, and one of the 4th, are recovered ; one complained of a bad cough, and one of a fever who has been ill five days, and came out of the prize West-India floop :- 35 in the lift.

10. One of the fcorbutic patients of the 9th, one added the 22d with a fever, one on the 27th

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ult. with a fcald, and one on the third with a contufion, recovered; one complained last night of the fever, and another of a scorbutic swelled ancle to which he is subject, making 33 on the list.

11. The patient added the 1ft, and one of the 8th with fevers, and one of the 9th with a bad cough, are recovered; one complained of a fever, one with giddinefs, and one with the ear-ach: -33 in the lift.

12. A marine who has been frequently ill before, and was added the 24th ult. with the fever, the fever patient of the 7th, and yefterday's patient with giddinefs, are recovered; one complained laft night of the fever, making 31 in the lift. PM. the prifoner added the 9th died of his fever in a violent delirium; he had had the diforder on board the floop, and was five days ill before he complained to me. This is the 5th patient who has died of the fever; petechiæ are very common among the fever patients.

13. The patient added the 6th, the fcorbutic one on the 10th, and one with the ear-ach on the 11th, are recovered; a marine added with a foul ulcer :- 28 on the lift.

14: A patient of the 14th ult. who has had the fcurvy fince he recovered of his fever, and one added the 8th, are well; one complained last night of the fever, one had a return of a bad cough, and another, subject to the rheumatism,

March.] THE SICK LIST.

is added with the fcurvy :---19 in the lift, befides two froft-bit and one ulcered, (prifoners) brought out of a prize; a quantity of onions were alfo brought from the prize, and ferved out to all the fhip's company. PM. we anchored at Rhode-Ifland, and fent 17 men to fick quarters, viz. one with a bad cough, one old rheumatic patient, three fcorbutic, one of whom was froftbitten, a boy added the 8th with a fever; and the patient with excoriations.

15. The patient added the 12th is recovered; one complained of the fever, he attends the fick, and is frequently infected :-22 in the lift.-The prifoners were fent on board the Chatham.

16. The fever patient of the 11th recovered; one added with the fever who lately came from fick quarters, and had been fent there from one of the prizes, ill of a fever :-22 in the lift. The Greyhound and Orpheus went up the river.

17. The rheumatic patient added the 25th ult. and one on the 15th from attending the fick, recovered; two complained of fevers:— 22 in the lift. We failed in company with the Lark, and anchored PM. at Block-Island.

18. One added the 19th ult. and one of yefterday's patients are recovered :—20 in the lift. AM. we failed, and PM. we run a floop afhore; the Lark flood in pretty near to her afterwards, and we followed, both firing a confiderable time

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at her and two guns, from whence the rebels fired at us, without hurting either of us; but one of our men, by ramming home a wad and cartridge without the gun being fpunged, had both his hands blown off, his arms broke and much lacerated, and his face greatly burnt by the gun going off in the mean time. Both arms were neceffarily amputated above the elbows. The fever patient of the 14th died PM. he was addicted to drinking. He is the 6th who died of the fever.

19. The froft-bit patient added the 14th, and one of the fever patients of the 28th ult. recovered; one complained yesterday of a head-ach, and another this morning of the fever :--20 in the lift. The fick-birth is cleaned and smoaked every good day.---- We anchored off Plum-Island.

20. One complained of the rheumatism, two of the fcurvy, one of an ear-ach, to which three of them are subject :--24 in the list. We anchored AM. at Shelter-Island.

21. One complained laft night of the fever, making 25 in the lift. Employed wooding and watering the ship. No stock to be got worthy of notice.

22. The fever patient of the 7th, one of the 8th, one of the 17th, two of the 19th, one with the rheumatifm, and another with the ear-ach, of the

March.] THE SICK LIST. the 20th, are recovered; two complained of the fever, one of a bad cough :-- 21 in the fick lift.

23. The wounded patient died this morning of his wounds, and one of the fcorbutic patients of the 20th recovered; one complained last night of the fever :- 20 in the lift.

24. One added the 14th ult. and one of the fever patients of the 22d, recovered; a black complained of the fever laft night, and another man this morning, and one of a contusion, making 21 in the lift.

25. One complained last night of the fever : 22 on the lift, five of them with very bad fevers. The contused patient of the 25th is well.

26. Two were added with indigeflion, from eating raw clams or bens unwashed, last night; feveral others complained from the fame caufe, who were not added to the lift, and were all relieved by vomits :- 23 in the fick lift. Twenty-nine Americans made their escape in a small boat from Connecticut, and came on board of us, to be fent to New-York to enter as volunteers in one of the Royal American corps. After getting fome victuals and drink, they were fent ashore to one of our foraging parties at Long-Island. The Captain and the Officers gave the fick two fheep.

27. The patients added yefterday are well .-one added with the fever, who had it very feverely before, and one with excoriations, making

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ing 23 on the lift. AM. failed, and PM. arrived at Rhode-Island.

29. The patient of the 27th with a fever, is well :- 17 in the lift.

41. The patient added the 16th is recovered; one complained of a fcorbutic fwelled leg, making 18 in the lift. PM. a fick fupernumerary was fent with the reft of them on board the Centurion. The 17 fick are, fix with fevers, four with the fcurvy, one with a bad cough, one with froft-bit toes, one with a fcald, one with excoriations, and three with ulcers. Our boat rows guard in the night.

APRIL.

1. The patient with the cough, and another with excoriations, are recovered; yesterday's recovered patient is relapsed, and two added with fevers, who have likewise relaped, making 18 in the lift.

2. The

April.] THE SICK LIST.

2. The fever patient of the 23d, and one with frost-bit toes of the 30th ult. are recovered: 16 in the list. We began to dig a garden yefterday on the island of Prudence, and to fow fome feeds. No inhabitants on it.

3. The patient added the 8th of Feb. with a contufion, and feized on the 11th ult. with a fever, and one of those added the 1st, are recovered; a marine complained of a relapse of the fever last night:—15 in the list. One of our men sent from a prize to sick quarters with the fever. The Centurion went down.

4. One of the ulcer patients, who was added the 211t ult. with a wound, another of the 1ft, and yefterday's patient, are recovered; one added to the lift with a fever, making 13 in all.

5. The man added the 20th of Feb. with a fealded foot, is recovered :-12 in the lift.

6. Two (one of them a marine) complained of the fever, both of whom had it before :-14in the lift. The convaletcents were fent afhore to walk, and the fhip washed.

7. No alteration of the fick lift. I wanted to have a tent erected on fhore for the fick, but the Captain would not confent to it, but allows the convalefcents to go a-fhore to walk when the weather permits. Their mutton is all expended. They have portable foup with onions.

N

8. One

8. One of the patients added the 6th is recovered; three added with fevers, and one with an inflammation :— 17 in the fick lift.

10. Two complained of the fever, one of a bad cough, and one with lethargic or plethoric fymptoms, making 19 in the lift. A very wet fog.

11. The marine added the 13th ult. and the relapfed patient of the first, (formerly a supernumerary) are recovered; one who lately had the fever, is relapsed, and another with a fore throat added, making 19 in the list. Some portable foup fent on board for the ship's company. I advised 4lb. of it to be dissolved every banianday in the peafe-foup.

12 The fever patients of the 8th, another fever, and the lethargic patient of the 10th, and yefterday's fever patient, are recovered :--15 in the lift. The patient added the 10th with a cough is feized with a fever. The people like their peafe with the foup.

13. One patient of the 6th, a fever patient of the 8th, and two others of the 10th, recovered: -12 in the lift.

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April.] THE SICKLIST 91 14. One complained laft night of the fever, one of the head-ach, and one of an inflammation :--15 in the lift. One of the fcorbutic patients feized with the fever.

15. The patient of the 11th with a fore throat,
is well; one complained laft night of the fever:
-15 in the lift. I hear the men on board of
other fhips will not eat their peafe with the foup.
I fuppofe too much of it is boiled in them.

16. The patient added the 10th ult. and one of the 14th with the head-ach, are recovered; one complained of a relapfe of the fever, and another of fcorbutic fymptoms:—15 on the lift.

17. One added the 2d, and one on the 31ft ult. and yefterday's fever patient, are recovered; one complained of the fever and an inflammation: 13 in the fick lift.

18. A boy complained of the fever laft night,
one of a fore throat, and one of a flight wound :
-16 in the lift.

19. No alteration of the lift. The patient of the 1-th is very ill.

21. No alteration.

23. One complained of scorbutic symptoms last night:-14 in the list.

N 2

24. Two

24. Two added with the fever, making 16 in the lift. One of the patients added this day, has been ailing fince he came from New-York hofpital. PM. the patient added the 15th died of the fever. This is the 7th who has died of the fever.

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MAY.

25. One of the 17th is well; one complained of fcorbutic fymptoms :-15 in the lift.

26. One complained of a contufed wound, and another of an inflamed finger, making 17 in the lift.

27. The fever patient of the 4th, and one of the 23d, are recovered; two added with fevers: 17 in the lift.

28. No alteration.

29. Seventeen in the lift. I am informed that two more of our people were fent with fevers from the prize to fick quarters.

30. Two fever patients fent to fick quarters. The patient added the 25th is well; one of the fcorbutic men (a Black, an irregular fellow) returned from fick quarters as bad as when he went, and added to the lift :-15 in it, viz. five with the fever, four with the fcurvy, one with a fore throat, three with inflammations from different caufes, one with a contufed wound, and one with an ulcer.

MAY.

1. The boy with the fcurvy, who was added the 2d of August ult. and was fince in fick quarters at Halifax, the boy with the ulcer of the 3d, one with a fever on the 8th of March, one with an inflammation on the 8th, and one of the 27th ult. are recovered; two complained of the fever, one of whom had it lately, and one of the rheumatism:—13 in the list. Last night the gentleman who had charge of the prize went to fick quarters, and died this day of the fever.

2. No alteration.

3. Thirteen still in the lift.

4. Two (one a marine) added to the lift with fevers, making 15.

5. One of those added on the 6th, and another on the 24th ult. are well; one complained of an abscess:—14 in the list.

6. One added the 16th with fcorbutic fymptoms, and one the 18th ult. with a fore throat, are recovered :—12 in the lift.

8. No alteration.

10. The

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11. One complained of the fever, making 12 in the lift.

12. Two added with fevers, one of whom has had feveral relapses :- 14 in the lift.

13. The patient added the 11th, the two of yesterday, and the Black with the scurvy, were fent to fick quarters :- 10 in the list.

14. The other fever patient of the 1st is well; one complained of a contusion :--- 10 in the list.

15. A man who lay close to the fick birth, complained of the fever, and was added, making 11 in the lift.

16. The other patient of the 27th ult. and one of the 14th, are recovered :-9 remaining on the lift.

18. The rheumatic patient of the first is recovered; another added with the fever :---8 in the lat.

19. No alteration in the lift.——I applied to the Captain to caufe oxylapathum, dandelion, tops of wild peafe, &c. to be gathered, and boiled every banian-day among the peafe for the fhip's company.

20. One

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20. One complained of the fever :--9 in the lift. Plenty of mint, muftard, forrel, and lamb's quarter, (as it is vulgarly called) to be gathered afhore, which are well cleaned, and boiled wich the peafe.

22. One complained of a very bad ulcer in his leg:—12 in the lift. The men are very fond of their peafe with the foup and greens among them.

23. The marine fever patient of the 4th, fent to fick quarters, and one of the 21ft are recovered :-9 in the lift. These two days pass the NW wind has burnt and withered every thing association of the second se

24. The patient of the 20th ult. of an inflammation, is recovered :---8 in the lift. Some four croute fent on board for the fhip's company; half a pound of which is to be ferved to each man, to eat with their falt beef on Tuefdays and Saturdays while it lafts.

25. One complained of an inflamed foot :----9 in the lift.

26. Four with fevers (two of whom, one a boy, had it before) added to the lift, making 13.— They have all different fymptoms who were added to-day.

27. One of the 15th recovered; another had a relapse of the sever: -13 on the list.

28. The

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28. The patient of the 20th, one of the 25th, another of the 26th, and one added yefterday, are recovered; one complained of a fore throat who had it lately, and of furuncles :---10 in the lift. The northerly winds have done much mifchief to the fruit-trees, &c. ashore.

29. No alteration of the lift. At noon, being relieved by the Diamond, we dropped down the harbour, and anchored.

30. The patient added the 14th ult. with an inflammation, and one of the 18th are recovered : -8 on the lift.

31. One of those added the 26th is well :---7 on the lift, viz. three with fevers, one with a wound, and two with ulcers.---- Anchored at New-Port. Some porter fent on board for the fick, from the agent victualler. Eight of our men brought on board from fick quarters.

JUNE.

1. The patient with a wound, added the 26th of April, one added on the 4th, and another the 26th ult. recovered; the patient with the fore throat, difcharged; one complained of a whitloe :--4 in the lift.

2. Two of the eight who came from the hofpital the 31ft ult. are added to the fick lift with fcorbutic fymptoms, making 6 in all. Those who have had the fever of late, have been feized

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June.]

feized with fcorbutic fymptoms, in their convalefcent ftate. PM. we failed in company with the Amazon and Orpheus on a cruize, and the three fhips' companies agreed viva voce to fhare prize money.

4. The patient added the 26th ult. is recovered; two added last night with the fever :---8 in the lift.

5. The patient added the 7th, another of the 22d ult. and one of the 1ft, are recovered :--5 in the lift.

6. The patient of the 4th is recovered; two, one of whom came from a prize, complained last night of a fever :--6 in the list.

7. One of the patients added the 2d, and one of the 4th, are recovered; one complained laft night of an hæmorrhage from the nofe, making 5 in the lift.

8. The patient of the third, and one of the 5th recovered; one added with a fever laft night, who came from fick quarters the 30th ult.—4 in the lift.

one complained of the fever -5 in the lift -Caught fome fifth. Very wet fogs.

11. The

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11. The hæmorrhage patient of the 7th is recovered:—4 in the fick lift. We caught a few fish.

12. The patient of the 9th is well; one with a wound, one with a contusion last night, and one with scorbutic blotches, who was formerly very ill of the scurvy and sent to sick quarters, added to the list, making 6 in all.

13. One added with a wound, and a boy with a relapse of the fever :---8 in the lift. Very wet fogs.

14. One complained of a strain, making 9 in the list.

15. Last night a patient was seized with an epilepsy, who is subject to it; another was added with a fever:—11 in the list. We caught a few cod.

16. The other patient of the 6th, one of the 10th, the wounded patient of the 13th, and yefterday's fever patient, recovered; a boy, who came from fick quarters the 13th ult. relapfed with the fever; one complained of indigeftion, from eating fifh, and two with flight wounds :-11 in the lift.

17. Yesterday's patient with indigestion, is recovered:-10 in the list.

18 The wounded patient of the 12th, and the two of the 10th, recovered fo far as to do duty : -7 in the lift.

19. No

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19. No alteration in the fick lift.

20. No alteration.

21. The contused patient of the 12th, and the boy of the 16th, are recovered :--5 remaining on the lift.

22. No alteration.

23. The epileptic patient has had the fever, and recovered :---4 in the lift.

24. No alteration of the lift. PM. a fquall of wind blew remarkably hot off the land.

25. Four in the lift. We caught a number of mackrel.

26. The other patient added the 2d, and the patient of the 14th, recovered; a marine feized yesterday with the fever :---3 in the lift.

27. The marine is recovered; one complained of an ulcer :--3 in the lift. The laft of the people's portable foup is made use of. PM. we anchored in Cape Cod Bay.

28. No alteration of the lift. We moved and anchored in Cape Cod Harbour. Our watercafks were fent afhore to be filled, and a corporal with fix marines from each fhip, and a marine officer to command them in the night, were fent to guard the cafks.

29. The fcorbutic patient of the 12th is recovered :---2 in the lift.----Some fishermen live about this place, from whom we got a few fish for the ship's company.

30. No

30. No alteration of the lift. The two fick are, the boy who was added the 13th with the fever, and another on the 27th with an ulcer.

boy of the solid, me recovered :- - - remaining

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Sест. III.

MONTHLY REVIEW OF THE SICK LIST, From Sept. 1, 1776, 'till June 30, 1777.

SEPTEMBER.

THE fick lift varied little, but often, until the middle of the month, when it decreafed: it afterwards increafed, though flowly, until the 24th, then varied a little, and decreafed the laft day.

The patients who complained were, four with fevers, two with head-achs, fixteen with the dyfentery, one with the belly-ach, one with an opothalmia, one with hæmorrhoides, one with eruptions, one with a fcald-head, three with ftrains, two with contufions, three with wounds, one with a fwelling of the knee, and one with a furuncle.—In all 37.

OCTOBER.

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OCTOBER.

The fever patient who was taken ill the 22d ult. (a puny boy who had been returned to duty the 19th only) after having been in the lift about three weeks.—He complained much of his head at firft, and in two days after a flux for a week together, with his head-ach, which weakened him fo much, that it was a fortnight before he recovered. When he complained on the 22d, it was of a bad cough, head-ach, and pain of his fide; and after this fever, which held him for eight or ten days, he was feized with a diarrhœa and diabetes from weaknefs, of which he did not recover for as many weeks.

The fever made its appearance on the 15th of September, the third day after we arrived at Halifax; a young man, who belonged to a boat at that time, and therefore was probably on board the Lizard and afhore at Halifax, was taken with an ague, he faid; but fortunately he foon got well: and even before him there were two had flight attacks of it. Some dyfenteric patients intervened between this man's being taken ill, and the recovery of the boy beforementioned on the 19th, and his falling ill again on the 22d. I was furprized to find h m fo long in A DIARY OF

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in recovering, as I gave him the bark not very fparingly. There was another man feized with it on the 22d, who recovered perfectly well the 26th.

The fhip's barber was the next perfon feized with it on the 3d; his attack was not violent, and being a tipling young lad, he went about the fhip five or fix days before he complained, left his grog fhould have been ftopped. He foon recovered.

Another young man, of a delicate conftitution, complained of the fever the fame day the barber did. He was very often ailing, but he luckily got quite well in a few days.

The next perfon was a marine, much given to drinking, and had frequently got drunk with small beer; he was much bloated, of an indolent disposition. Not long before this, he had a fit of drinking : he died the 8th day of his illnefs. I was much alarmed at feeing, on feveral parts of his body, a few hours after he died, large black blotches, particularly in those parts he had lain upon. None of the fymptoms were running high, and he being naturally of a very flothful disposition, I did not apprehend that he was in any danger. His cafe will be related hereafter. On this occasion, I was the more uneafy. because the symptoms about the other fever patients were more obftinate than those which had appeared in former months. These circumftances

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ftances left me no room to doubt but that we had caught a virulent infection. I cannot determine whether we caught it on board of the Lizard, or at St. John's, or at Halifax, for the fever exifted in, and we had communication at all the three places in a few days. One thing is certain, that wherever it was contracted, the debauch which our people committed on the 15th of September, foon roufed it into violent action. From a very healthy ftate, we were fuddenly plunged into a very fickly and dangerous one. Thirty-nine complained of fevers, two of the dyfentery, one of the rheumatifm, two of hæmorrhoides, one of eruptions, one of the itch, one of a ftrain, and three of contusions .- Fifty in all.

The method in which the fever was treated, will be related in its proper place. None of the other complaints required any particular treatment.

NOVEMBER.

A good deal of pains was taken to clean and fmoak the fhip in different ways, the first of this month, with larger fires of junk and tobacco, than were generally made use of afterwards. To this precaution alone can be attributed the visible check which was given to the fever : there being a decrease of no less than fifteen patients in the A DIARY OF

the courfe of the month; and all who were in the lift did well. The fact is fo clear and inconteftible, that nothing further need be faid in favour of fmoaking with large fires for three or four hours at a time, when a fhip becomes fickly; nor of frequently repeating this procefs, at leaft as often as circumftances will admit.— The fick themfelves not only found the air more cool and refrefhing after fmoaking, but those in health, who lay in the tiers and more confined places of the fhip, faid it was like a change of climate to them, fo cool and agreeable the air was rendered. But it is likewife to be remembered, that the fick were treated with bark.

On the 26th, the fick, or rather convalescents, were fent ashore at Halifax, with all their cloaths, folely with an intention to get the ship cleared of the infection. Indeed, no other motive could have justified fending people to such quarters. Of all the nests of filth combined with poverty, which I ever beheld, they were by far the most shameful. Where, or on whom this reproach falls, I know not; but what renders it indelible, is, that Halifax had never been molested by the rebels, and confequently there were no concurring circumstances to make it necessary to coop up the fick and wounded feamen, in the most filthy and decayed house about town, with fcarce a square of glass in a window.

As

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Nov.] THE SICK LIST. 105 As to their victualling, they were left to the mercy of an old woman and her daughter, who farmed that part of the *dirty* bufiness, I must call it.

As foon as they were fent afhore, the fhip was cleaned and fmoaked with as much care as before, and we flattered ourfelves that by repetitions of this procefs, we fhould be able to fubdue the infection entirely; but, to our great mortification, fixty fupernumeraries were fent on board in the evening from the Rainbow, eight of whom had the fame jail, hofpital, or fhip fever; and there was no time to get an order to fend them back that night.

Befides eight fupernumeraries ill of fevers, who were fent back to the Rainbow next day, 24 were added to the lift this month with fevers, one with fcurvy, two with rheumatifm, three with coughs, one with the ear-ach, one with hæmorrhoides, three with ftrains, fix with contufions, two with wounds, two with inflammamations, and two with ulcers :—in all 47.

I have nothing in particular to obferve at prefent with respect to the manner in which those men were treated.

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DECEMBER.

Only five were added with the fever the first week; one or more were added every day in the fecond week; and in the remaining part, excepting the 15th, 19th, and 26th, one or more complained of it daily. But if the ftate of the weather, and the fhip's being fo much crouded on the paffage from Halifax to New-York, be confidered, it will not be thought furprifing that we had one patient died, and fuch an increase of the fick lift at the end of the month. On the last of November there were only 16 in it, including fupernumeraries; and on the last of this month there were 25 in it; but the fever patients were then chiefly in a convalescent state, though they were liable to relapfe from inattention, or the least irregularity. There were 49 fever patients, one with a dyfentery, one with the belly-ach, nine with the rheumatifm, one with a fcrophula, one with a cough, one froftbitten, two with ruptures, fix with contufions, two with fractures, two with wounds, two with inflammation, three with abfceffes, and one of an ulcer .- In all 83.

The fymptoms of the fever were vehement this month, and were very obstinate, particularly the delirium. It was incident to those who complained Jan.] THE SICK LIST. 107 plained of the rheumatism, and they, when ill of it, flood more in need of cordials than of evacuations. The rest of the patients were treated after the usual manner.

The paffage to New-York was extremely difagreeable, from the length of time we were on it, the badnefs of the weather, the great number on board, and our being fo fickly. The fick being unavoidably fo ill accommodated in their births, rendered it ftill worfe. We had fometimes three different gales of wind in the fourand-twenty hours.

JANUARY, 1777.

For the first nine days, excepting the 1st, 2d, and 5th, no fever patients complained. It may be observed, that the more fick we had on board. the more patients we had daily complaining .--Query, if this might not proceed from the following caufes :- Might not fo many people as we had on board on the paffage, crouded into fo fmall a space, contribute to this ?---When in fuch a fituation there are a number of fick in a fhip, will not the infection daily acquire more virulence ?- And, under these circumstances, will not those who are obliged to pass and re-pass often in the course of twenty-four hours, by the fick-birth, be very apt to be affected by the fight of the fick, as well as by the infection ?-That the wet decks, and the people lying in wet P 2 hamA DIARY OF

mocs, (from the upper works of the fhip being leaky) contributed thereto, no perfon will doubt.

Through the remaining part of the month, the men were taken ill nearly every other day; but in order to get rid of the infection, they were fent to the hofpital foon after they complained, and a great deal of pains taken to keep the thip clean. Our people were very irregular this month. The fhip being very near a wharf, and they having received a little prize money, it was all laid out in New-England new rum.— Whether the patient who died on the 14th, in fo fhort a time as thirty-nine hours after being feized with the fever, had drank any of that abominable new fpirit, I know not for a certainty, though I fufpect he had. His cafe will be related in its proper place.

The patients that were added to the fick lift, were, forty with fevers, one with a head-ach, one with dyfenteric fymptoms, one with indigeftion, feven with the fcurvy, five with rheumatifm, two with fore throats, nine with coughs, three with nephritic fymptoms, one frost-bit, one with a fcald, fix with contufions, one with inflammation, one with an abfcefs, one with a furuncle, and one with excoriations.—In all 81:

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Feb.] THE SICK LIST:

FEBRUARY.

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This was the most fickly month we had in America; a greater number of fever patients being added to the lift in the course of it, than in any other. Yet only one patient (a fupernumerary who came from the Rainbow) died. Although the prifoners were on board of us only nine days, it cannot be doubted but that by their crouding the fhip while they were on board, they promoted or increased the fickness. One of them died on board, without my being informed of his illnefs, until a few hours before he died. From what accounts I could hear of him, he was in fome measure flarved from want of cloaths and bedding. But as the prifon ship from whence they came was fickly, as I was informed, it is more than probable that he was infected before he left her; and on board of the Juno they were neceffarily crouded together into the ftarboard bay, where he had a wet deck only to lay upon. That part of the fhip was unavoidably wet by the cables; and the bay had an offenfive smell for a confiderable time after they were fent away, though well cleaned and fmoaked. While these poor creatures were on board, our marines lay under the half-deck, where

where they caught cold, and were feized with the fever.

The winds being generally northerly, the weather was very cold with fnow. Every day, excepting the 4th, 8th, 16th, 20th, 21ft, and 25th, fever patients were added to the lift, to the number of 61, befides one with the head-ach, two with belly-ach, nine with fourvy, five with rheumatifm, three with fore throats, five with coughs, one with nephritic fymptoms, one froftbit, three with fealds, one with ftrain, two with ruptures, fix with contufions, one with an inflammation, one with a furuncle, two with excoriations, and two with ulcers.—106 in all.

An urgent cough, with fevere head-ach, were the most frequent and troublefome symptoms of the fever this month. No fever patients were fent to fick quarters, but one from a prize.

MARCH:

The number of fick were greatly diminished this month, but still the majority of those who complained were fever patients, viz. 34; befides two of indigestion, fix of the fcurvy, three of the rheumatism, three of coughs, two of the ear-ach, one of giddiness, one of a diabetes, four frost-bit, three of contustions, one of a wound, two of inflammations, one of furuncles, one of an Mar.] THE SICK LIST. TIT an excoriation, and three of ulcers :--- in all 67. One of the fever patients died on the 12th, and another on the 18th; the former was the prifoner from the floop, who had been fo long ill before he complained. Irregular people fuffered greatly more than others in the fever, in them the fymptoms were more fevere, and the relapfes more frequent. But I observed exceptions to this rule; for under the difadvantages of irregularity, the utmost degree of filthiness and nakednefs, and of having a cheft only to lie upon, without bedding, I have feen them recover : and what is rather extraordinary, the young, raw, dirty lads from Scotland, who had been but a short time at sea, were feldom feized with it. The man who was blown up or wounded on the 18th, died on the 23d. It was fome time (perhaps a quarter of an hour) after the accident, before he recovered any motion or fenfe, or felt any confiderable pain, and continued delirious throughout the night.

Three fever patients were fent to fick quarters on the 28th. For the firft five days, fever patients were daily added; but on the 6th, 7th, 13th, 18th, 20th, and 26th, no fever patients complained, nor through the remainder of the month, excepting the 27th; fo that by far the greatest number were added before the 18th, after which the infection began to decrease very obviously. This could proceed from nothing elfe

Ches in the

A DIARY OF [1777 II2 elfe but our firing fo much on the 18th,* which not only fmoaked the fhip thoroughly, but alfo the men and their cloaths, which never could be done in the ufual way of fmoaking. The fact is clear, whatever conjectures may be formed on it, as appears by the daily ftate of the fick lift ever after. Yet nothing but accidental circumftances can procure to a fickly fhip's company fuch a beneficial fmoaking; as the expences attending the confumption of fo much powder as we fired that day, would be too great. But it may therefore be faid, with feeming propriety, that little advantage can be derived from this being known, unlefs it could be put in practice. I think, however, that this being inculcated on board of a fickly ship, when coming to action, may be an additional inducement to them to perform their duty with becoming fpirit.

APRIL.

Northerly winds were the moft prevalent this month, confequently the weather was rather cold and unpleafant, though we had but little rain. It was of fome benefit to the convalefcents that they were allowed to walk afhore now and then; but a good fick tent erected on fhore, would have been of much more benefit, not only to all the fick, but to the fhip's company in general; as

* See pages 71 and 72.

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as we might thereby, probably, have been able to have entirely *fmoaked* out the infection.

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The fick continued to decreafe in number on the lift, and the greateft number of the fever patients were added to it before the 19th, viz. on the 1ft, 3d, 4th, 6th, 8th, 10th, 11th, 14th, 15th, 16th, 17th, 18th, 24th, and 27th. On the 24th, one died, who, I believe, came from the Rainbow. Two men* were fent to fick quarters with the fever from a prize, and two from the fhip on the 30th. All the patients of this month were 27 with fevers, one of a phlethora, one of a dyfentery, four of the fcurvy, two of fore throats, one of a cough, two of wounds, and fix of inflammations :—In all 44.

The most obstinate symptoms of the fever this month, were the head-ach, universal pains, and cough. The delirium was very urgent in that cafe which proved fatal.

MAY.

We now became daily more and more healthy. Only 28 patients complained the whole month : viz. 19 of fevers, one of the belly-ach, two of Q the

* Neither those men, nor any fent from prizes, were under my care. They are only mentioned as men belonging to the ship, who had the sever. A DIARY OF

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the rheumatism, one of a fore throat, one of a contusion, one of inflammation, one of an abscale for the formation one of an abscale for the formation one of an ulcer.

The weather, though fomewhat backward, was upon the whole temperate. The winds were mostly between SE and NE The NW on the 22d and 23d did much mischief, as has been already observed, and likewise on the 28th.

The fymptoms of the fever were now much milder; the head-ach, with pains in the limbs, as the patients expressed themselves, were most troublesome.

The gentleman went the 30th ult. from the prize to fick quarters, where he died the 1ft inft. He had of late, I was informed, lived very irregularly, and was fubject to complaints of his breaft from a hurt which he formerly received. Five were fent this month with fevers to fick quarters.

Our people, particularly those who were fcorbutic, received benefit from walking ashore; as well as from the portable foup and greens being boiled among their pease, and from the crout.

JUNE.

We had very little bad weather at fea this month, it being chiefly mild, but the atmosphere was

[1777

THE SICK LIST.

June.]

was either foggy, or in general very hazy. The fhip's company caught a great many fifh, and they had their foup as ufual while it lafted, with croute, twice a week. Under these circumftances the fick lift continued to decrease as to fevers, to the great satisfaction of every person on board. Only twelve complained of fevers, one of indigestion, three of scurvy one of hæmorrhage, one of an epileps, one of a strain, two of contusions, four of wounds, one of an abscess, and one of an ulcer: -27 in all.

The head-ach was the most troublesome fymptom among the fever patients.

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CHAP;

was chilter foggy, or in general very hary, thip's company caught a prist many filb, and they had the figup of that while is alled, with croute twice a week finder the circum-

fances the fielt lift captioned to decreafe as to

Tune.] CHE(SOFF 1187. 1.187.

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MONTHEY REVIEW OF THE SICK LIST, From July 1, 1777, 'till July 30, 1778, with meteorological Observations, and remarkable Ocnicurrences and epicepty, one lo and agennoin two of contulions, four of wounds, one of an all side is and one of the dicert ap in all.

HE winds were variable, blowing moderately from every point of the compass in the course of the month. It was very feldom calm, the' little rain fell, and that only on feven days of the month; the atmosphere was generally hazy, foggy, or cloudy. On the 2d, 3d, and 4th, heavy dews : on the 5th, 9th, 17th, and 20th, light flowers, 22d, 23d, and 29th, flowers, the rain fell on the 5th and 17th with thunder and lightning, 22d with lightning, and 29th with thunder. Mean height of the thermometer about 65; new moon 4th, full moon 20th.

The fick lift increased from three to nine inthe courfe of the month; there were added to it in all feven with fevers, the fymptoms of which were become milder; one with a head-ach, one with dyfenteric fymptoms, two with belly-achs, one with vomiting, three with indigeftion, fix with the fcurvy, two with rheumatifm, one with by

July.] THE SICK LIST. 117 hypochondria, one with worms (afcarides), one with eruptions, two with ftrains, one with hydrocele, one with a contufion, three with inflammation, and one with an ulcer :—in all 34.

On the 26th a cafk of molaffes was taken out of a prize for each of the three fhips companies, and eight cafks of limes were divided among them; indeed the Orpheus had one half of the limes, as her people were the moft fickly with the fever and fcurvy. I got 18 bottles of fmall French wine for the use of the fick.

On the 28th, I put three gallons of lime juice and fix of molaffes in 18 gallons of rum, (but, by miftake, the fleward put in more rum than I directed) to be ferved, when diluted with water, to the fcorbutic people, in the room of grog.

On the 31ft we got a little flock out of a prize, which was divided among the three fhips.

The porter was ferved out to the fhip's company, as a free gift, a pint a day to each man.— A prifoner, who came from the molaffes veffel, complained of an inflamed eye. He faid it proceeded from the fteam of the molaffes, when ftarting it out of one cafk into another about a fortnight before ; and that all the men who were employed about that bufinefs, were affected in the fame manner.

One of our men died the 25th, of his fever, at fick quarters.

AUGUST:

August.

a, one with worms (a

The wind was variable and very. moderate, but more from the S. than any other quarter, 'till the 26th, when it came N. and continued fo, but was ftill moderate until the 31ft. It rained the 2d, with t and l, 3d, light fhowers, 5th, fhowers, 10th, 11th, 12th, 13th and 14th, l, 15th, t, l, and fhowers, 17th, 18th, 19th, and 20th, light fhowers, 23d, l, 26th, fhowers, 27th, light fhowers. The atmosphere in general was hazy and cloudy, but the 6th, 7th, and 8th we had fogs. New moon the 3d, and full moon 18th. The thermometer was never lower than 68, nor higher than 78.

The fick lift varied a little, but continued rather increafing until the 12th. On the 13th we arrived at Rhode-Ifland;—the people of the Orpheus continued fickly all the voyage. The dyfentery began now to attack the people. I fent to fick quarters on the 14th, one with a fever, three with fluxes, one with a bad cough, and three with the fcurvy. From the 14th the lift varied frequently until the end of the month.— On the 28th, one with a dyfentery, one with a vomica, and one with a hydrocele, were fent to fick quarters. A third part of the fhip's company

THE SICK LIST Sept.] 119 pany were fent in their turns ashore, to walk and gather apples, when the ship's duty and the weather permitted. On the 15th we anchored up the harbour, off Prudence.

The patients who complained were, nine of fevers, one of a pleurify, five of a dyfentery, one of a vomiting, one of indigeftion, three of the fcurvy, one of the rheumatifm, one of hypochondria, one of a vomica, one of a cough, one of eruptions, one of a strain, two of contusions, two of inflammations, one of an abscefs, one of a furuncle, and one of ulcers :--- in all 33.

There were no unufual fymptoms either among the fever or dysenteric patients.

SEPTEMBER.

Northerly and NE winds were most prevalent; fome days they were variable, feldom calm, and always moderate; 6th, 7th, and 10th, light showers, 17th, showers, 18th, hard showers, 19th light showers, 21st, t, 22d, light showers, 23d showers, 26th, light showers. The atmosphere was generally cloudy, fometimes clear, and very feldom hazy. New moon the 1st, and full moon the 17th. The mean height of the thermometer was about 66.

The fick lift varied little, but rather increased all the month with dyfenteric patients, one of whom

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[1777 whom died on the 19th; but the fever with petechiæ accompanied his flux. Nothing uncommon happened in the dyfentery. On the 4th, a corporal and two marines were fhot, and one wounded ashore by the rebels; while they were guarding the watering party, above 200 rebels attacked the corporal and fix marines, the boats crew, a midshipman, and the cooper. On the 12th, a man was killed by a fall from the maintop.

Five patients were added with the fever, fifteen with the dyfentry, one with a fore throat, five with contufions, two with wounds, and two with furuncles :- 30 in all. On the 14th, fent one of the fever patients to fick quarters.

OCTOBER.

Northerly winds prevailed more than the Southerly ; 1ft, 2d, 25th, and 26th were calm, but these calms were not throughout the whole day; it was mostly moderate, and fometimes variable. On the 18th, 27th, 28th, and 29th, gales; 9th, fhowers, 13th, 18th, 21ft, 24th, 25th, 26th, 27th, and 29th, light flowers; 28th, heavy rain. The atmosphere was generally hazy or cloudy : new moon the 1ft, full moon 15th. The mean height of the thermometer was about 60. From the 22d to the end, the weather became cold.

THE SICK LIST.

12T

Nov.]

The fick lift rather increased all the month, the dysentery still prevailing On the 1st, four were fent to fick quarters with the dysentery, and one with the fever; one died of the flux the 10th, and two, with the dysentery, were fent to fick quarters. The dysentery was very obstinate, but there was nothing unusual among the fever patients. Nine were added with the fever, fourteen with the dysentery, one with the cholera morbus, two with the rheumatism, one with a fore throat, three with contustions, one with inflammation, and one with an abscess:—in all 32.

NOVEMBER.

For the first four or five days, the wind was Southerly and Wefterly, (though it froze on the Ift) and then came round to the Northward, varying, with rain, and fixed for two days in the NW with fresh gales. It blew Southerly again for one day, then returned to the N and NW for three days with rain; veered again for a fhort time to the SW, and gradually came back to the WNW, W, and NW for ten days, with froft and fome fnow, blowing ftrong at times. From the SW it blew fresh one day, varied, became Northerly, then Southerly and Wefterly-NW again-variable and Eafterly with ftrong gales. The 12th, 13th, 17th, and 18th, gales, 29th, R ftrong

A DIARY OF [1777 ftrong gales, 22d and 23d, fhort calms, 6th, heavy rain, 5th, 8th, 9th, 10th, 22d, 26th, 29th, 30th, light fhowers. The atmosphere was generally cloudy or hazy. The moon was full the 14th, and changed the 29th. The mean height of the thermometer was about 46.

On the 18th we dropped down to New Port; 23d failed with a convoy, and returned next day. 27th failed again, and anchored at Block-Ifland PM.—28th failed with a convoy towards Sandy Hook; 29th, they were all difperfed by the gale of wind. The Diamond, Flora, and Lark were out on a cruife, and got very fickly from the bad weather, and from infection communicated by prifoners taken out of the prizes. The fmall-pox was on board the laft.

The fick lift varied very little, but towards the end of the month it was increafed by hurt patients. This was the healthieft month we enjoyed in America while the Juno exifted; only twenty-one patients having complained, viz. one of a fever, one of a head-ach, two of the dyfentery, one of the rheumatifm, one of a palpitation of the heart, one of a cough, two of . fcalds, fix of contufions, two of wounds, three of inflammations, and one of a furuncle.

Two with the rheumatism, and one with a fcald head, were fent to fick quarters on the 19th, and one on the 26th with the fever.

This was an agreeable change for the better. Our men were very feldom afhore, and only at first Dec.] THE SICK LIST.

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first, when we went up to Prudence; and the weather was far colder in February last than it was in this month. On the 21st, fix of our men, who had been taken prisoners the 4th of Sept. returned in a flag of truce, and another of them escaped out of prison. When they came on board, I got them well washed with warm water, then with warm vinegar, and got clean cloaths put on them. Afterwards I gave each of them of Huxham's Tinst. of Bark, Zi. Tartar emet. gr. 4 and Aq. fimp. Ziß,

DECEMBER.

The wind was chiefly from WSW to NE, and, unlefs in the beginning of the month, when it blew ftrong gales, was commonly moderate.— The 2d and 15th light fhowers, 29th, gales. We had only nine days without froft, and fnow fell on four days only. The atmosphere was oftener cloudy and hazy, than quite clear :—13th, 17th, 18th, 27th, and 29th, light fhowers. Full moon the 14th, new moon the 29th :—it was very cold about the end of the month. The mean height of the thermometer was about 44.

We returned to New-Port the 7th; our fick lift increated until the 19th, and all the week following decreated, and from the 27th until the end of the month, increated. A fever pa-R 2 tient A DIARY OF

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tient was fent to fick quarters the 12th, and another fever and one dysenteric patient on the Query, Did the increase of fever and 27th. dyfenteric patients proceed from the blowing weather at the end of the laft, and beginning of this month ?--- our hatches being then batooned down. On the morning of the 30th, every thing on board which the wind blew upon, had the appearance of being cafed over with ice, it having rained, hailed, fnowed, and froze in the night .--The fhip's decks were very leaky, many of the men were wet in their hammocs, and a great deal of water was between decks. Moft of the fever patients were lying in the bays, where the air is most confined. The man who first complained of the fever this month, was delirious when he complained.

The number of patients added to the fick lift this month, were ten ill of the fever, four of the dyfentery, fix of the rheumatifm, five of coughs, one of the ear-ach, one of a hernia, three of contufions, and two of furuncles :—in all 32

The Nonfuch, Raifonable, and Somerfet were very fickly.— The Nonfuch left England in March, and fifty of her men have been already carried off by the fever. Each of these ships has now between 130 and 150 men on their fick lift The Somerset's men have the fever, and the other two ships have far more scorbutics than

JANUARY. 1778.

The wind blew from between NW and SW more than from any other part of the compass. On the 8th, 17th, 18th, 21st, and 29th, we had generally fresh gales, but on the 7th, 27th, and 30th, calms for a short time; at the beginning of the month, there was some frost, and a good deal between the 14th and 26th; 3d, 8th, 10th, and 18th, light showers; 11th, 17th, light showers with some 29th and 31st, heavy rains, 5th, 20th, 24th, and 25th, snow. Full moon 14th, new moon 28th. The mean height of the thermometer was about 39. The atmosphere was chiefly hazy and cloudy.

The fick lift decreafed until the 8th,—increafed for two days,—decreafed until the 22d, and increafed again until the end of the month. There were never more than twelve in it. The patients who complained were fix of fevers, one of a head-ach, one of a dyfentery, one of vomiting, five of the rheumatifm, one of a fore-throat, one of an ophthalmia, one of a contufion, one of a fracture, one of a wound, one of an inflammation, one of an abfcefs, and five with furuncles : —26 in all. On the 2d we failed to Long-Ifland, and returned the 6th, when we found Lord Howe on board the Eagle:—fhe was far from being healthy. We failed the 7th, returned the 9th, and on the 20th went up and lay between Rhode-Ifland and Prudence; 31ft anchored at Prudence, —Nothing particular happened among the fick this month.

FEBRUARY.

A moderate Wefterly wind for the first five days was fucceeded by a short calm; it came to the Eastward on the 6th, and blew violently on the morning of the 7th from NNE with snow: much damage was done by the gale. It was afterwards variable, but oftener from the NW than from any other quarter. The 12th, 13th, 17th, 20th, and 21st were calm. The atmosphere was sometimes clear, but generally cloudy or hazy, excepting the 11th and 27th, showers, 16th and 26th, light ditto. It generally freezed from the 6th to the end of the month, and a good deal of snow fell. The moon was full the 11th, and changed the 26th. The mean height of the thermometer was 44.

On the 15th we failed in company with the Cerberus and Haerlem, and 24 fail, chiefly of transports, all carrying flags of truce; towards evening, Mar.] THE SICK LIST. 127 evening, we and the Cerberus parted from the Haerlem and transports, and on the 21st, PM. we arrived in Cape Cod bay or harbour.

The fick lift varied until the 10th,—rather increafed until the 18th, and was afterwards variable until the end of the month. There were never more than 18 in it :—in all 35 were added to it; viz. eleven who complained of fevers, one of a dyfentery, two of the fcurvy, one of the rheumatifin, one of an hæmoptoe, two of fore throats, two of coughs, one of nephritis, four frost-bit, one of a fcald, three of contustions, one of a wound, one of an inflammation, one of an abfeefs, one of a furuncle, and two of ulcers.

I fuppofe it will hardly be doubted but that the badnefs of the weather was the caufe of the fevers prevailing again.—The furgeon of the Eagle informed me, that the yellow fever appeared with violence on board of the fleet laft fummer, between New-York and Chefapeak.

MARCH.

The ift, the wind was SW, 2d, f SW t WNW, 3d, Northerly with calms, 4th, NW with fresh breezes; until the 21st it blew variably and feldom strong; 21st and 22d, calms at NNW; then it was variable, and rather moderate until the 29th, when a most violent gale of wind came on 128

on at ESE, veered round gradually to the NW blowing ftrong gales the 30th and 31ft: the froft, with fnow every day except the 6th and 8th, continued 'till the 9th; 10th, 11th, 12th, 13th, 17th, light fhowers; 16th, 31ft, fnow; 21ft, 22d, and 23d, froft; 28th, 29th, hail; 30th, fhowers. We had the atmosphere more clear than ufual, but it was frequently hazy and cloudy. Full moon the 12th, new moon 28th. The mean height of the thermometer was between 33 and 34.

On the 1st, the Haerlem came into Cape Cod Bay, with 21 fail of transports; the lieutenant who commanded her, as also his clerk, two midshipmen, and a number of the people, were ill of the fever. One of her men died, and most of them recovered with difficulty. Our fecond Lieutenant caught the infection by being on board of her on duty. She was cleared, and fent as a flag of truce to Bofton ;-our first Lieutenant and my first mate went in her. Several men were taken ill, but by following the method used in our ship, they soon recovered .--17th, the Centurion joined us with orders from Lord Howe, and on the 19th the Orpheus joined us from a cruize; they had the fmall-pox on board, and feveral passengers for Rhode-Island. 25th we failed, and arrived the 29th, with the Cerberus and most of the transports, at New-Port. Captain Griffith commanded.

The

April.] THE SICK LIST.

The fick lift varied from the beginning until the 29th, when it decreafed until the end, tho' very little.—Six complained of the fever, one of a dyfentery, two of the rheumatifm, fix of an ophthalmia, one of the nephritis, one of the itch, one frost-bit, two of contustions, one of an inflammation, and three of furuncles:—in all 24.

The patients fewer than in the preceding month; but our men had neither been fatigued nor got wet, excepting the waterers fometimes; and they had an opportunity to purchase plenty of fresh fish and potatoes.

APRIL.

The wind varied frequently until the 10th, and blew a ftrong gale the 3d; from the 10th 'till the 15th, it was Southerly, light airs and frefh breezes, and then chiefly Wefterly until the 26th; 19th, 22d, Southerly, 23d and 30th, gales, 26th, 27th, Southerly, 28th, variable, and NNE afterwards; 3d, thunder and lightning with fhowers, 4th, and 20th, fnow, 5th, 15th, 22d, and 30th, fhowers, 9th, froft and fnow, 16th and 17th, light fhowers. The atmosphere was feldom clear, but generally cloudy or hazy.— Full moon the 11th, changed the 26th. Mean height of the thermometer about 53.

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On the 30th a rebel frigate passed and fired at us, without hurting any body.

The Venus was at Rhode-Island, and very fickly. The furgeon told me they had loft about fifty men of the fever, which still continued to rage on board.——I think he faid they became fickly from being crouded with prisoners, and cruizing with them in bad weather. They were fo fickly, that they were obliged to come in before their cruize was at an end.—Their full complement was 240 men. In what manner he treated them, I did not ask himself, but I am informed by a furgeon, an intimate friend of his, who was on the spot, that he followed the antimonial method.

The Haerlem came in; her people are recovering very flowly — 9th we failed and anchored in the Naragancette paffage, and relievedthe Somerfet, which ftill continued fickly. I am told they buried ninety men of the fever fince they left England, feventy of whom were of their beft feamen.

On the 2d I fent a contuled patient to fick quarters. A man who entered from a transport at Cape Cod, complained in the afternoon of the 3d of a fever :---he, with two more of her people had been lately ill of a fever. I faw feveral inftances of transports becoming fickly from having fick foldiers on board.--Several of our men were feized with the fever, by their having been on May.] THE SICK LIST. 131 on board the Somerfet on the 9th. One in particular told me, that while he was on board of her, one of her people (who came very near him) had a very difagreeable fmell.

The fick lift varied often, but it rather increafed until the 14th,—then it altered very little until the 23d, when it began to increafe for four days, and after that to decreafe. In all, 25 patients complained; viz. eleven of the fever, one of the dylentery, one of the fcurvy, one of a fore throat, one of worms, four of contufions, one of a wound, three of inflammations, one of an abfcefs, and one of a furuncle.

When our fick men had leave to go afhore, to walk, they were forbid to go near the Somerfet's old hofpital; they bought milk.—I began on the 9th to dig a garden.

MAY.

Moderate Southerly and variable winds chiefly prevailed, but when it veered round to the Northward, there was a frefh breeze :—the Southerly winds were the fea breezes. The 1ft and 2d Northerly, with fhowers; 4th, 10th, 16th, 17th, 2zd, and 31ft, light fhowers; 8th, 14th, fhowers, 11th, 12th, 13th, 18th, 19th, 28th, 29th, 30th, dews; 15th, dews withlight fhowers, 24th, S 2 dews A DIARY OF

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dews with lightning, 27th, hard flowers. The atmosphere was more frequently hazy or cloudy than clear,—14th and 15th, were foggy. The moon was full the 11th, and changed the 26th. Mean height of the thermometer, about 61.

The Lark had three killed and eight wounded by the rebel frigate on the 30th ult —On the 4th, fick quarters were broken up at New Port, and all the fick men were carried to Capt. Brenton's house on the Neck, which is converted into an hospital.

The fick lift varied very little all the month, but rather increafed towards the end; but fewer were added to it than in any other month. The patients who complained were, eight of fevers, one of a head-ach, two of the rheumatifm, three of contufions, and one of a furuncle :—in all 15 only. Our people had leave to walk on Cannanictel, to gather greens; about the 20th they began fifting with lines; they also bought potatoes.

JUNE.

The 1ft and 2d the wind was foutherly with fresh breezes; 3d, 4th, and 5th, Northerly and NE with light airs and fresh breezes, until the 22th, it was Southerly, *i.e.* from SE to SW: calms 'till the 17th, it was Northerly, generally calm

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calm, fea and land breezes, 17th, 18th, and 19th calms; 20th, 21ft, Southerly, 22d and 23d, NE, frefh breezes and calms, and then Southerly with frequent calms in the morning until the end. The 1st, light flowers, 2d, hard flowers, 3d, light fhowers, 4th, fhowers, 5th, light fhowers, 7th and 8th, flowers, 17th, thunder and lightning with light fhowers, 2 ft, fhowers, 26th, light flowers, 28th, lightning, 29th, and 30th, thunder and lightning. Dews fell every night when it did not rain, except the two last nights. The atmosphere was generally hazy, fometimes cloudy, and at others clear ; the 3d and 6th were foggy. The moon was full the 9th, and changed the 24th. The mean height of the thermometer was about 70 :- towards the end of the month, the weather became very hot, and the ground was burnt up.

The fick lift varied but little all the month; indeed it did not vary lefs in any one preceding. —Thofe who complained were, fix of fevers, one of a head-ach, one of the dyfentery, one of the fcurvy, two of the rheumatifm, one of an hæmoptoe, one of a fore throat, two of contufions, two of fractures, one of a wound, two of inflammations, two of abfceffes, two of furuncles, and two of ulcers :—26 in all. Nothing particular occurred among them.

JULY.

JULY.

Part of the 2d the wind was NW, 7th was calm, the 12th and 13th, the wind was NW. and Northerly, the 17th Eafterly, from the 20th to the 25th, Northerly and NNE; throughout the reft of the month it was mostly Southerly, but fometimes it was late before the fea breeze fet in. The 1ft, 2d, 3d, 8th, 9th, and 12th, thunder and lightning ; 2d, 3d, 4th, 9th, 10th, 11th, 14th, 20th, 22d, 23d, 28th, and 29th, light fhowers :--- the fqualls always came from the NW. Dews in the night. The atmosphere was not often clear, but generally hazy or cloudy. The 10th, 27th, and 31ft; we had fogs. Full moon the 9th,-changed 23d. Mean height of the thermometer was about 74. The weather was frequently very hot.

On the 29th, the French fleet appeared off the harbour's mouth, confifting of twelve fail of the line and three frigates. All our frigates immediately got under way, and went close in to different parts of Rhode-Ifland.—30th, two of the enemy's fhips went up the Narragancette, and two up the Seconnette. PM. the King's Fifher, Alarm, and Spitfire galleys were burnt in the Seconnette, to prevent their falling into the enemy's hands. As foon as we got into Coddington-

JULT.

THE SICK LIST July.] ton-Cove last night, the people were employed about getting the guns ashore, with ammunition, provisions, and stores .- 31st, our people were employed as before. Tents were erected ashore.

The fick lift rather increased 'till the 12th, and after that varied and decreafed. The patients who complained were fix of fevers, two of the head-ach, one of the dyfentery, one of the rheumatism, one of a cough, one of an epilepsy, one of a fcald, two of contufions, five of wounds, four of abfceffes, five of furuncles, five flung by infects, and one of an ulcer :- 35 in all. One of the head-ach patients, who is ill of the fever, was a prifoner while he was feized with that diforder.

None but a guard slept on board after the 29th .- It is fomewhat remarkable, that during fuch uncommon duty as was performed by our people the three laft days of the month, and with fo much unavoidable hurry as attended it, that no accidents happened among them. Several of them were bit in the tents by infects .---Nothing particular occurred among the patients. On the last day of the month we had only lame people in the fick lift.

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A DIARY OF

affant These more erected allions.

with Cove ton highly the propie there employed

About gotting the guns afters, with ammunities,

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The Journal ends here very properly for various reafons. However, I cannot help making mention of a marine, who complained the first of August :- after having been very drunk, (probably with bad fpirits) and lying in the fun the preceding day, he was feized in the night with different symptoms, and in the forenoon his head ached, he was griped, very thirfty, and complained of weaknefs. I gave him an emetic, and ordered him an ounce of falts; but as they gave him no flool, and he complained much of his bowels and limbs paining him, towa ds evening I gave him a clyfter, which procured two ftools, with a great discharge of wind, and gave him much eafe :- however, he died in the night. I know not what was the caufe of his death, whether it was owing to the liquor he drank, or to a coup-de foleil, or fome mifmanagement .--He expired in a fhorter time than the man who died on the 12th of January, 1777 at New-York, whom I fuspected of having drank fome bad new spirit.

Although

THE SICK LIST.

Although the infection received a very evident check on the 18th of March, by our firing fo much, and feemed to be wholly fubdued in the month of November following; yet we find it ftill continued on board, tho' dormant, and only required fome particular circumstance to excite it, which happened in the beginning of December, it being then again roufed into action, by a feries of bad weather; or perhaps infected cloaths had been ftole from fome of the men who died, and concealed until those in whose posseffion they were, used them instead of their own, now rendered uncomfortably wet. From my knowledge of feamen and marines, I think this is more than probable, although I cannot demonstrate it as a fact.

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CHAP.

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CHAP. IV.

Contains FOUR TABLES, which show the different diseafes, and the number of each diseafe, that occurred on board of his Majesty's ship JUNO, from April 4, 1776, until July 30, 1778.

The loweft column but one of the three first Tables, shews the whole number of patients of every menth; and the lowess the number who died every month. The right-hand column shows the whole number of patients of every difease during the period of time which that table represents.

TABLE

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TABLE I.

From April 4, to December 31, 1776.

	-								-	
Diseases.	April.	May.	June.	July.	Auguft.	Sept.	October.	Novemb.	Decemb.	Number of Diieafes.
Fever	30	40	16	7	3	5	40	25	50	216
Plearify			1							I
Quinfey		1			1					I
Plethora		1	1							1
Head-ach		1			1	2				3
Dyfentery		I	5	1	9	16	2		1	35
Belly-ach		3		1	2	1			1	8
Rheumatifm	1	I	1	2	1		1	2	9	18
Scurvy	2		2	3	1			I		9
Gout	I		2							3
Scrophula									1	I
Singultus		1							20	I
Hectic	2		1		1		1 a			3
Hemorrhage			1							1
Cough	1		2	4	3	1	1	3	1	14
Sore Throat				1	2	1ª				3
Ear-ach						1		1		I
Deafnefs		I		-	11		1		1	2
Giddiness					1		1			I
Epilepfy			1	1						2
Ophthalmia			1			1			1	1

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TABLE I. CONTINUED.

			1	A seal of the local division of the local di					and the second sec	
Diseases.	April.	May.	June.	July.	Aug.	Sept.	Ođ.	Nov.	Dec.	No. of Difeaf.
1										
Nephritis		I				-			-	- I
Hemorrhoides	1	I				I	2	1		6
Eruption	1	2	51		I	1	I			6
Itch	4	I	1	5.1	1		1			7
Scald Head			2		1	I				
Froft-bit		1	1						T	and and
Scald	I								-	1
Strain	2			I	1	3		-		1
Rupture						3	1	3	2	13
Contufion	_	7	8		1			-	2	3
Fracture	3	1	0	5		2	3	6	6	41
Wound	1			1					2	4
Inflammation	1	I		1	3	3		-2	2	12
	3	2		1	I		9.1	2	.2	11
White Swelling	1	I				11				3
Furuncle					1	1				2
Excoriation	1		1							2
Abfcefs	2	8		2	1				3	16
Ulcer	5			1	1	1	1	2	-	8
		-	-	-	-	-	-	-		
	2	73	42	32	34	38	51	48	83	463
No. of Deaths	1	1	1	-		1	1	1	1	. 4

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TABLE II.

From JAN. 1, until DECEMBER 31, 1777.

DISEASES.	Jan.	Feb.	March.	April.	May.	June.	July.	Auguft	Sept:	Octob.	Nov.	Dec.	No. of Dif.
Fever	44	62	34	27	19	13	7	9	5	9	4	8	241
Pleurify		-						1					1
Plethora				ı			1						1
Head-ach	1	1		I		1	I				1		5
Dysentery	1					1	1	5	15	14	2	4	4.2
Belly-ache		2			1		2						5
Chol. Morbus								1		I			I
Vomiting								1					1
Indigeftion	1		2			1	3	1	1				8
Rheumatifm	5	5	3		2	1	2	1		2	1	6	28
Scurvy	7	9	6	3		3	6	3					37
Palpitation of the Heart									~	- 100	I		1
Hypochondria		-		12				1					1
Vomica								1		1			1
Hemorrhage				1		I			1				1
Cough	9	5	3	I			1	1			I	5	26
Sore Throat	2	3		2	1			-	1	1		1	10
Ear-ach			2	-			2					1	3
Giddinefs			1							1	-		I
Epilepfy	1					I						1	1
Nephritis	3	1						1	1				-4
Diabetes			1							-	1		1

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0 Auguft Octob. No. o. Difeaf. March April DISEASES. May. une. Sept. Nov. Dec. an. July. Feb. Worms I Eruption 2 Froft-bit 6 1 1 4 2 Scald 1 3 4 Strain 6 1 2 1 I I Rupture 2 3 Hydrocele 1 1 Contusion 6 6 3 2 1 2 5 3 6 3 37 Wound I 2 2 11 4 2 Inflammation 6 1 2 1 1 3 2 1 3 20 Furuncle 1 1 в 2 10 I 2 Encyfied Tu-mour ł Excoriation 2 1 4 Abfcefs 1 1 5 I Ulcer 2 3 I 9 1 I Accidents 4 4 Number of 85 9 67 43 28 29 34 33 34 32 24 30 546 Patients Number of 1 5 1 3 Deaths 12

TABLE II. CONTINUED.

TABLE

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TABLE III.

From JAN. 1, until JULY 30, 1778.

-		-				-			
Diseases.		January.	February.	o March.	April.	May.	o June.	July.	No. of Difeafes.
Fever		7	11	6	12	7	6	6	55
Head-ach		1		1		. 1	1	2	5
Dyfentery		1	1	1	1	i	I	1	6
Vomiting		1	in the second						1
Rheumatifm		5	1	2		2	2	1	13
Scurvy			2		I		1		4
Hemoptyfis			1				1		2
Cough			2					I	3
Sore Throat		I	2		I	1	1		5
Epilepfy				-				1	1
Ophthalmia		I		6		12		1	7
Nephritis			1	1				Y	2
Worms	-				I				I
Itch				1	4				1
Froft-bit			4	I					5
Scald			I				1	1	2
Contusion		1	3	2	4	3	2	2	17
Antonio Carlo and a second second second second									

TABLE

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TABLE III. CONTINUED.'

Diseases.	Jan.	Feb.	March.	April.	May.	June.	July.	No. of Difeaf.
Fracture	1	İ	i		1	2	i I	3
Wound	I	I	1	1		I	5	9
Inflammation	I	1	I	3		2	1	8
Furuncle	5	I	3	I	I	2	5	18
Abfcefs	1	I		1		2	4	9
Stung by Infects		X					5	5
Ulcer	1	2		1		2	I	5
Number of Patients	27	35	24	26	14	26	35	187
Number of Deaths	-	-	-	-	-	-	-1	-

TABLĘ

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TABLE IV.

Shews the whole Number of the preceding Tables collectively—distinguishing the Number of those who died on Board—the Number sent to the Hospital—and the Number of those who died of Fevers at the Hospital.

Diseases.	Number.	Deaths on Board.	Number fent to Hof- pitals.
Fever	512	7	69*
Pleurify .	2		
Quinty	1		
Plethora	2		C. STREAM
Head-ach	13		
Dyfentery	83	2	11
Belly-ach	13	- Personale	
Cholera Morbus	1		The second second
Vomiting	2		612196
Indigettion	8	and the second	and and and and
Rheumatifm	.59	and the second	6
Scurvy	50	Service Service	18
Gout	3		I
Scrophula	1		
Palpitation of the heart	I		A State of the second
Hypochondria	1	the second	Contraction and the second
Singultus	1	1	C. La La Contra
Hectic	3	No. of Contraction	1 +
Vomica	1_	and a second second	I
Hemoplyfis	2	S. Start Start Start	I
Hemorrhagia	2		1000
Cough	43		98
Sore Throat	18		

" Three of these were sent for small-pox. + Sent as phthisic. § Three of these were sent as weak.

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	JE IV. C	ONTINUE	
1	Ci LL	Deaths on	Number
Diseases.	Number.	Board.	fent to Hof-
And To manie	and south	Comment of the second	pitals.
Ear-ach	4	- Statist in	inter aller
Deafnels	2	and have been and the second	- Series
Giddiness	2	- Anthen	E addies T
Epilepfy	4		2*
Ophthalmia	8	and the second	and the second second
Nephritis	7.	1.1	
Diabetes	1		1
Worms	2		
Hemorrhoides	6		
Eruptions	8		2
Itch	8		THE PARTY
Scald Head	I		1
Frost-bit	12		
Scald	9		
Strain	19		
Rupture	6 1		I
Hydrocele	1		1
Contutions	95		2
Fracture	7	1	
Wound	32		
Inflammation	39		1
White Swelling	3		
Furuncle	30		
Encyfted Tumour	I	-	
Excoriation	6		
Stung by Infects	5		
Ablcefs	30		
Ulcer	22		5
Accidents	4	4	
Whole Number of Difeafes	1196	16	133†

(146) TABLE IV. CONTINUED:

* One of those was fent as infane. + Many were convalescents, and some were prisoners.

OBSERVATIONS, &c.

II. A ₽ R

CHAP I.

INTRODUCTION.

I N the following defcription, the fever is diurnally defcribed, and the fymptoms are arranged as they daily appeared; but it is not to be underftood, becaufe fome of them are repeated for many days fucceffively, that they have been confined all along to those in whom they first appeared :—on the contrary, they are to be confidered as now making their first appearance in other cafes. It is also to be remembered, that fome were feized with more, and others with fewer fymptoms, and that they were combined very

INTRODUCTION.

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very differently with refpect to the order in which, for method's fake, they are here arranged. To avoid repetitions, thefe are only, in general, every day mentioned which were most urgent; but when the fever is on its decline, about the 31st day, and few are then ill, the worst symptoms are daily repeated.

Though the fymptoms which we have termed diagnoftic, generally introduce the fever, it was, at its first appearance, attended with many others. 'Tis highly neceffary, I think, that young practitioners should not only be apprifed of this, but that they should be made acquainted with all the various appearances which the fever puts on, from its commencement to its terminanation, in a number of patients living as nearly as poffible in the fame manner ;--- and this is the reason I have taken the trouble to describe it fo minutely. The more we confider fuch variety of fymptoms occurring in the fame difeafe, among perfons living under the fame regimen, the more we must be convinced that they are regulated more by the conflitution of the patient, than by all other circumftances attending them. and and and have been been and

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SECT. I.

The SHIP FEVER described, diurnally.

THE diagnoftic fymptoms, or those which generally introduce the fever, are rigours or chillness, or alternate chills and heats; fickness at stomach, head-ach, universal pains, (or, as the fick express it, pains all over them) or pains in all their bones, but especially in the loins or back, and a morbid appearance in the countenance.

But fome informed me, that before the fhivering and other fymptoms were perceived, they had been ailing, and not well, as they faid, for feveral days,—a week or a fortnight,—three weeks—and even a month:—fo long did fome droop. The duration and violence of the rigours, chillnefs, or alternate chills and heats which introduced the fever, varied greatly; and thefe again were either fucceeded by the following fymptoms, or accompanied with many of them; and they were very irregular in different perfons, both as to their violence and duration.

General debility, univerfal forenefs, or, in their own words, weaknefs in all their limbs, and fore-

foreness all over ; great depression, apprehension, despondency, lassitude, faintnefs, extreme coldnefs, fyncope, and epilepfy; a bitter tafte in the mouth, oppreffion about the præcordia, naufea, reaching, porraceous or bilious vomiting, a flight cholera morbus, belly-ach, dyfenteric fymptoms, diarrhæa with suppression of urine, or the opposite extreme of coftiveness; the head either much confuled, or diffurbed with pain in the temples, in the hind part, or in the forehead; giddinefs, or deafnefs; hæmorrhage at the nofe, tooth-ach, fore throat, and relaxed uvula; fenfation of fwelling about the præcordia, and of the abdomen after chilnefs; pains at the præcordia previous to vomiting, uneafinels in the thorax, very acute pains of either fide,* refembling a pleurify, an urgent cough, and difficult respiration; a pain of the fide, shooting down into the groin or thigh, pain in both ilia, that defcended to the feet, a pain reaching from the crown of the head to the fole of the foot of one fide; pain of the right shoulder, pain of the hams. Some, at the very beginning, had great heat, and much perspiration, without any previous

* Violent local pains fußpend the patient's attention to, or his fenfation of flighter fymptoms-of which they again complain as foon as the violent pain is relieved. DESCRIBED DIURNALLY. 151 vious shivering + or coldness; and in some furuncles appeared.

Various degrees of heat and thirft fucceeded the rigors and chilnefs in different perfons. In fome, the heat was burning, and the thirft infatiable; and in others both were moderate, tho' greater than in health. The pulfe varied no lefs, and as all those variations were perceptible throughout the fever, they will be feldom repeated.

Such were the fymptoms which at first ushered in the fever.

First Day.—Of those who were feized in the forenoon or afternoon, and complained immediately, numbers had remissions, and were much relieved within the first twenty-four hours by a vomit, which was instantly given; and by a free perspiration procured in the night, by sudorifics and diluting drinks; and some even recovered by these means—but sew had remissions without such affistance.

2.—Many passed a restless night from having no remission; some had a remission, which, as well

+ Perhaps it was owing to their flightness that the patients did not attend to them, though they did precede the heat.

I fuspect those made their appearance before the patient was feized with fever.

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well as the exacerbations and paroxy fms throughout the course of the difease, were very irregular with refpect to the period at which they appeared, and their duration. Many had remiffions of particular fymptoms, while the reft continued as violent as ever; and thefe remiffions, whether more or lefs diffinct, were generally effected by perspiration, and in some cafes by stools,* very feldom by vomiting. ‡ But profuse evacuations, either by fweat or ftool, were fo far from always procuring remiffions, that they generally feemed to increase the symptoms. Some were yet chilly -others had alternate chills and heats, and fome a fenfation of cold in the back only. The most general and the most urgent fymptoms were head-ach, lumbago, and universal pain. The head was now affected in a more violent degree ; a heavinefs, lightnefs and giddinefs from looking at any object, were complained of, together with a burning heat and profuse fweats in the forehead; pain of the left eye, or of both eyes, tho' neither were inflamed, pain over the eyes, efpecially in flooping down; flooting pains in the eyes, and an unufual motion in them; inflammation of the eyes, with an eruption in the face, which in others was turgid, and the eyes watery. The

* The natural or spontaneous evacuations are here meant.

[‡] This patient came from the hofpital the day before, and relapsed.

DESCRIBED DIURNALLY. 153 The head appeared fwelled, pain in both ears, and a discharge from the left with pain; deafnefs, pain of the one fide of the neck and fhoulder,-fore throat, hoarfenefs, and difficulty of fwallowing were greatly increafed by either a teazing or a violent cough; as in like manner were the giddidefs, and the pain in the thorax, the abdomen, and the extremities; the right fide was most frequently affected. The ftomach and bowels were as much diffurbed with pain, nausea, reaching, vomiting, costiveness, or purging, as ever. Cramps and spasms of the limbs, and pains of the heels were complained of .--There was now univerfal uneafinefs, befides forenefs; proftration of ftrength and spirits, and faintness, while some thought themselves neither well nor ill. A number were troubled with great anxiety, much uneafinefs and pain at the heart, (as they expressed it, pointing to the præcordia); bitter taste of the mouth, porraceous vomiting and purging, hæmorrhage from the left nostril, expectoration of fetid pus, hæmoptoe, delirium, and petechiæ, were frequent.

The countenance appeared as if the patient had drank, i. e. greatly fluthed, and the eyes inflamed; or it was pale or fallow, and greatly difeafed :- it was very wild, while the patient thought himfelf well. There were furuncles on the neck, and an angry eruption on the pained fide of the thorax; the tongue was chopt acrofs, X

foul,

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foul, or blackifh; the pulfe was preternaturally full and foft; there was a yellowifh jelly-like difcharge from bliftered parts.

In the afternoon there were many flight and fhort remiffions, but more exacerbations; and the former were followed by violent paroxyfms, preceded in feveral cafes with, and in others without fhivering. Relapfes happened from irregularity; there were interrupted profuse fweats, and the perspiration, thirst, heat, and pulse, varied much.

3 .- A few were fent to the hofpital,-fome recovered, others were now arrived at a flate of recovery, and there were many remiffions. But numbers, instead of being relieved, were greatly debilitated and depressed by profuse sweats in the night. Perspiration kept up twenty-four hours procured no remiffion to fome; in others a profuse moisture was diffused all over, and on feeling the pulse, a difagreeable fensation was impreffed on the fingers; and this, though not fo ftrong, was perceptible in all, efpecially during perspiration, or cold, clammy, and uncomfortable fweats. Many paffed the night very ill, either from there being no remiffion of the fymptoms, or from exacerbations, or irregular paroxyfms, or from perfpiration and inquietude .----The rigours held some four hours, and were followed by violent paroxyfms. A fenfation of great cold, while the fkin was burning hot, and a fen-

DESCRIBED DIURNALLY. 155 a fensation of chillness at times, were trouble-Tome. But the most distressing fymptoms during the paroxyfms, (befides all the complaints already mentioned, which were now aggravated by more or lefs cough, rendering refpiration difficult) were frictures about the thorax, pain of the crown of the head, pain in the fcrobiculus cordis fhooting through to the back, or darting from the right to the left breaft; shooting, wandering, or flying pains, pains across the offa innominata, of the right buttock, knees, and wrifts; a lofs of fpeech in the night, a difforted face, great inquietude, delirium, and death in one cafe. Both the thorax and abdomen were diffreffed as before; a bloody difcharge from the left ear, the hæmorrhage from the nofe, hæmoptoe, various expectorations of vifcid, ropy stuff, occurred in fome cafes, and in others very fetid pus was discharged. The stools were still porraceous, and bilious, or watery, or white with high-coloured urine. There was a copious difcharge of urine, and fometimes involuntarily .---Some had large eruptions on different parts of the body; raving, and petechiæ.

Great debility, giddinefs, heavinefs, and lightnefs of the head, with great defpondency and faintnefs, and a bitter tafte in the mouth, were very diffreffing during the indiffinct remiffion. The limbs were as tired and fore, (to ufe their X 2 phrafe)

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phrafe) as if they had come off a long journey; and fome felt that peculiar fenfation of the back and limbs, commonly expressed by being asleep; an inability to shut the hands, was complained of; internal foreness, or in their words, foreness in the infide. The countenance was still suffied, or fometimes pale, fallow, wild, and greatly dejected; the palate fore, and the tongue not only fo, but red and foul in the middle.

4 .- A few recovered; others were now become convalescents, a few had remissions all day, and some cold sweats. Profuse perspiration in many, as heretofore, procured no remiffion; remiffions, exacerbations, and paroxyfms, were as irregular as ever, and the two latter were more generally violent. The paroxyims fevere with raving, followed fweating at midnight, and exacerbations in the morning. And there was alfo remiffion of pain while the uneafinefs, heat, and thirft continued. Remiffion of the headach by ftools. The moft urgent fymptoms were frequent shivering, alternate heats and chills, vomiting; the paroxyfms being ftill introduced by fhivering, and exacerbations by languor, and heat in the head. The eyes were prominent in violent paroxysms, which were fometimes preceded by cough, with pain in the breaft; the cough in many cafes was dry and urgent, and increafed the belly-ach.

The

DESCRIBED DIURNALLY.

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The pain was most vehement in parts which had been formerly hurt, particularly about the clavicles, and palpitation at the heart* occurred. The head, eyes, ears, countenance, throat, thorax, and abdomen were still affected as at first; and in fome cafes without any remiffion; the cough was fometimes attended with difficult respiration and tremours. The pains were as various and numerous as before, accompanied with tinnitus aurium. The various discharges and evacuations, with expectoration of brown thick ftuff, continued, and the diarrhœa with faintnefs-worms were voided by ftool: Some had cold fweats in the night, an interrupted refpiration, and a fenfation of creeping and walting of the flesh. The hæmorrhage from the nofe increafed the giddinefs; an abfcefs which began to form on the neck, before the fever commenced, fuppurated kindly, and after being laid open difcharged good matter freely. The urine fmelled very ftrong, and the patients were not refreshed nor relieved by sleep. A green matter was discharged from bliftered parts, raving was common, and many had petechiæ. To the fame fymptoms which prevailed during the remiffions on the preceding days, were added terror, momentary partial fweats, depreffion, breathing

* The patient was fubject at other times to this fymptom.

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ing through the nofe, lofs of tafte, univerfal debility and forenefs; and the head-ach and cough were increased by getting out of bed, and fitting up.

There was no alteration for the better in the countenance, and the tongue in fome was very foul and much enlarged.

5.-Some recovered, numbers began to recover, others had remiffions, and many had none. Violent exacerbations and paroxyims were more frequent. Remiffions were still introduced by perspiration or stools; many passed the night ill from rigours, head-ach, various pains, urgent cough, fweating, inquietude and wandering; fhivering for two hours, or chilnefs, or alternate heats and chills introduced the paroxyfms, which were attended with all the variety and feverity of pain, cough, and laborious refpiration hitherto mentioned, and likewife with reaching, belly-ache, conftipations in fome, and in others diarhœa; besides inflammation of the throat, and pain of the neck, there was pain of the right fide of the head, eyes and neck, which fhot through to the left temple, on turning the head round ; violent pains of the left ear and fide of the head, dimnefs of fight at times, nervous pains, to which the patient was fubject, and tremors. Some were chilly at times, others were fo all day. Difagreeable refpiration, lofs of fpeech, muttering and finging inarticulately, a ghattly countenance, and death in one cafe .---Some

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Some lay contracted on one fide :—the evacuations were little altered; either colliquative fweats, a reeking moifture, or partial profufe fweats continued ;—blood and pus, or pus alone were fpit up; the hæmorrhage at the nofe, bilious vomitings, porraceous and watery ftools continued; and fome voided ftools mixed with blood and matter; the angry eruptions about the mouth extended up to the nofe; an itch-like eruption fpread over the body; petechiæ were very numerous; the expectoration of blood and pus, and of pure pus, continued likewife, and the gelatinous difcharge from blifters.

All the diffreffing fymptoms before taken notice of during the imperfect remiffions still prevailed, together with anxiety and restlessness.

The countenance and tongue had as various appearances as formerly, and the teeth began to be covered with fordes.

6.—A reftlefs, unquiet night; there was continual chilnefs, vomiting, and purging, in fome cafes, and in others fneezing preceded the paroxyfms, which were, in fome cafes brought on by being wet; and were ftill accompanied with pains and other complaints of the head, eyes, ears, throat, abdomen, loins, and extremities; a very urgent cough, which occafioned ficknefs at the ftomach; the head and abdomen were more difturbed than ever, but many thought themfelves better at times. Some complained of the belly-ach, accompanied with fwelling and tenfion

fion of the abdomen, pain all down the fpine, pain of the ancles after profuse fweating, a fenfation of hollowness in the breast, and a fighing kind of respiration; tremors, spass, delirium, petechiæ, and a perfect mania.

The evacuations by the fkin, vomiting, ftool, and expectoration, and the eruptions, with the appearances of the countenance, and of the tongue, were as various as ever; befides, the countenance was now footy in fome cafes, and the lips were very foul; the tongue was rough, flimy, and black on each fide. In a cafe with vomica, the breath was very offenfive, and there was great thirft even when the fkin was quite cool.

The fame difagreeable fymptoms prevailed during the remiflion as before. Some were arriving at a ftate of recovery, fome advancing in it, and a few recovered.

7.—A bad night from heat, thirft, fweating, head-ach, all the variety of pains, dyfpnœa, and cough, hitherto mentioned. In fome cafes there were the very fame fymptoms as at the beginning :—the head, eyes, throat, ftomach, and inteftines, were ftill much difordered; heat about the head, pain down the whole fpine, pain about the os pubis; the part of the fide in which there was excruciating pain, was fwelled and tenfe. Shivering ftill was frequent; a worm was voided by the nofe; relapfes with head-ach, the alæ of the nofe were diftended; fome drank often

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often and greedily, looked frequently at their fingers, were agitated with flarting and tremors, continual wandering, raving, effusion of tears, involuntary difcharge of the fæces, and mania, and thefe fymptoms terminated in death. Expectoration had the fame appearances as ufual, and was not general. There were numerous eruptions of various kinds; fome like the flinging of nettles, but the itch-like eruptions were the most general, and the most troublefome; petechiæ were observed—the tongue had various appearances, and trembled on putting it out, and the countenance was much difeafed.

The remiffions were attended with the fame train of fymptoms as ufual—fome recovered, and numbers were recovering.

8.—The fick refted ill from fhivering, headach, whimfical dreams, raving, ftarting, working with the hands, oppreffion and forenefs at the præcordia, and a fhort, laborious refpiration, while the patient thought himfelf well. Rigors of four hours continuance introduced paroxyfms, during which moft of the violent fymptoms already mentioned ftill haraffed the patients. In fome cafes, there was no remiffion for twentyfour hours. Neither the head, thorax, nor abdomen were relieved. Univerfal pain, uneafinefs, anxiety, and inquietude were frequent.— One became fcorbutic. The bliftered parts, the nofe and tongue, were very fore. The face was Y

fqualid, the nofe contracted, continual raving was not uncommon, and fome were even manaical; fome lay on their backs with a ghaftly countenance; the refpiration was very laborious, with a rattling in the throat; petechiæ were still observed, costiveness was very obstinate, white frothy ftools with much flatus, were voided by the affiftance of clyfters. In fome cafes the expectoration was free and laudablein many the reverle was observed. Previous to the cough which brought on the hæmoptoe, there was a fenfe of great weight about the præcordia; and after the hæmoptoe a fenfation of great heat remained in the fame parts. Hæmorrhoides and a prolapfus ani were troublefome to a few patients.

The countenances, eruptions, tongue, thirft, the ftate of the fkin and pulfe varied as ufual, as also did the remiffions, and the number of those who recovered.

9.—The patients were very reftlefs in the night, and troubled with fealding of the urine; their fleep was not refrefhing; fhivering, or alternate chills and heats, very frequently introduced the paroxyfms; but in fome cafes they were preceded by a ftiffnefs of the neck, or an obtufe pain of the head, with ficknefs at, and pain of the ftomach, and bilious vomiting, were more violent than ever. The head was very much diffurbed with deafnefs, giddinefs, and

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and pain, as were the thorax, abdomen, loins, and extremities; universal pains about the joints, urgent cough, coftiveness, and diarrhæa were still frequent; prolapfus ani, and much heat about the anus. Some had a dyfentery, and great debility, especially of the loins; the voice became rough, the eyes were very much affected, and even always closed, unless the patient was roufed. A few were turbulent and unruly, and in some were observed loss of speech; pulse hardly perceptible, and a turning up and rolling of the eyes-two died. Some complained of numbnefs, or want of feeling; hectic heats were diffreffing, very offenfive pus mixed with blood, was expectorated, as was also, in some instances, an exceeding viscid brown ftuff .--The eruption about the mouth and nofe fuppurated, and began to dry; and the itch-like eruption fcaled off. The countenance continued to be very much difeafed, as well as the tongue, which in fome cafes was very black, much enlarged, stiff, and very painful; in others it fwelled much, and was chopt, and the teeth were covered with fordes. Many petechiæ were still observed. ,

Some now recovered, and many were recovering.

10. Inquietude, univerfal uneafinefs, delirium, and fhivering were still frequent. The head, thorax,

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thorax, abdomen, loins, extremities, and particularly the joints were ftill much and varioufly afflicted, and the pains in those parts exasperated in the fame manner as ever by the cough .----Great hoarfenefs, and a difficulty and pain in fpeaking, arofe from an enlarged black tongue, and a parched fore mouth and throat : fome lay on their back, with the mouth open. Tremors and ftartings were diffreffing, and petechiæ of different shapes and fizes, with other eruptions of various kinds, were still observable; in one, they fpread at the bafe and became livid. The fallow and much difeafed countenance still continued; the tongue and teeth were very foul and black, expectoration was more general; the worft species of which was very yellow and very fetid.

Befides the train of fymptoms already mentioned, which accompanied the remiffions, there was a fenfation as if cold water had been poured on the loins, or down the anterior parts of the thighs. The convalescents gathered firength very flowly; but some recovered.

11. Many paffed the night very ill, from violent paroxyfms and exacerbations, during which the body was afflicted as ufual :---rheu-matic pains were very common; delirium, a pulfe hardly perceptible, and fome died. Relapfes introduced by chillinefs were frequent, and colliquative fweats with ficknefs at ftomach and reaching

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reaching, very diffreffing. The blood was in a diffolved ftate; but a few drops of blood from the right noftril, greatly relieved the head. Involuntary effufion of tears, and expectoration continued. Coftivenels was very troublefome. There was little alteration on the countenance, throat, tongue, and teeth; only the pellicle began to caft off from the tongue. The eruptions continued. Some convalescents were coffive others had a diarrhæa. Most of them complained of uncafines, heavines of the head, giddines, deafnes, languor, and debility,—Some recovered.

12. Inquietude, cough, and the usual pains distressed many in the night; as did alfo alternate chilnefs, profule fweats, and large expectoration, which very much debilitated the fick. Chillinefs, or alternate chills and heats, ftill introduced paroxyfms with vomiting and delirium. Exacerbations were very violent, and relapfes frequent. Pains in every part, as well as the ufual complaints about the head and throat, bitter tafte in the mouth, ficknefs in the flomach, or an uneafy fenfation, reaching, diarhœa, coftivenefs, suppression of urine, and despondency were frequent. Some were yet troubled with partial and momentary fweats. The various eruptions, appearances of the countenance, tongue, teeth, throat, and expectoration were not altered for the better. Hard lumps were

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were voided by the aid of clyfters; and in fome white fpecks were obferved on the bliftered parts: petechiæ ftill appeared.

Those who had short and uncertain remissions ftill complained of those symptoms already mentioned; as did the convalescents; and of them it is remarkable, that they often denied their having had any sleep, though they slept well.— Some recovered.

13. Chilline's at times; relapfes, with naufea, and bitter tafte in the mouth; paroxyfms, and exacerbations of all the various pains, and concomitant fymptoms already mentioned, were yet frequent, with what the patients called aching of their bones. Coftivene's, diarhœa, univerfal debility, efpecially of the joints, and forene's, giddine's, pain of the right ear, and depression, were prevalent. Some were become extremely thin; and numbers were harraffed with the itching eruption. Petechiæ and remissions were accompanied with the usual fymptoms. When the pellicle cast off from the tongue, it was red and very fore.

Many of the convalescents were feeble and peevish. Great difference was always perceptible in the pulse, thirst, and state of the skin.— Some recovered.

14. Many of the patients had reftlefs nights from head ach paroxyfms; and fevere exacerbations of the various pains and cough: but the rheu-

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theumatic pains, hoarseness, fore throat, and cough were most frequent and violent in the cold winter months.* Relapses, chillness, bitter taste in the mouth, fickness at stomach, giddiness, heaviness, great debility, languor and depression were distressing. There was a discharge from, and also a pain in the right ear; a free expectoration in some cases only; whenever the pellicle cast off from the tongue, another began to form immediately; costiveness, and diarrhœa continued; there were still petechiæ and other eruptions, and a more florid appearance, without that itching formerly mentioned. The convaless complained of chillness: Some were still infensible and delirious, and some recovered.

15.—Many paffed an indifferent night from languor and head-ach. Numbers were not relieved, but very faint after perfpiration in the night; relapfe with fhivering, chillnefs, ficknefs at ftomach, violent paroxyfms or exacerbations, with delirium, and in the afternoon three drops of blood from the nofe; tremors of the hand, petechiæ, pains in the toes, but efpecially the left; univerfal forenefs and debility, fore throat and depreffion. The eyes were inflamed in fome cafes, and in others fore and painful; the difcharge from the ear was lefs, but ftill troublefome; coftivenefs and piles were obferved.

The

* The fever continued two years in the fhip.

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The tongue was foul in the morning after fleep, and those who had remissions, as well as the convalescents, were fatigued with the usual symptoms. Some recovered.

16.—There was debility and faintnefs after profuse fweats, and fensation of coldness while the skin was very hot. Irregular paroxysms and exacerbations; alternate chills and heats, relapses, nausea, head-ach, giddiness, universal pains, efpecially about the præcordia, with incessant cough, and about the loins, knees, and ancles: great anxiety, and ghastly countenance, were frequent symptoms; some spoke very indistinctly, groaned, and the tongue was black, yet they thought themselves better. Petechiæ, diarhœa, costiveness, ear-ach, and the itching eruption remained; the tongue was much difeased, and the teeth were foul.

The fick recovered very flowly, but fome entirely.

17.—Some paffed the night ill from urgent cough, exciting the various pains, and from heat and inquietude; defpondency and groundlefs apprehenfions difturbed others; the remiffion of the cough, pain of the toes, relapfes, chillnefs, or flight rigours, were fucceeded by head-ach, ear-ach, pain about the breafts, and uneafinefs of the ftomach; giddinefs, debility, deprefion, tremors of the hand, numbnefs of the lower DESCRIBED DIURNALLY. 169

lower extremities; coftivenefs, a laudable expectoration. Thick urine was voided with pain; in fome cafes the difagreeable fenfation was full imprefied on the fingers in feeling the pulfe; eruptions continued, there was an angry furuncle on the right cheek, and the tongue was ftreaked black. The countenance, thirft, pulfe and ftate of the fkin, differed greatly amongft the patients.

18 .- The fick paffed a reftlefs night from reaching, belly ache, partial fweats, and various pains already mentioned; the fides, knees, and toes were mostly complained of; and a dry, teazing cough. Relapfes with diarrhœa, headach, and various pains. Coftiveness continued, and a diarrhœa commenced. The ear-ach, and a watery difcharge from the ear, was troublefome. Some had a difagreeable reeking clammy perfpiration. A black blifter on the tongue, when the patient awoke in the morning, was a common fymptom of difeafe. The fick were generally feeble and dejected, fome of them groaning at times. The eruption began to dry and wear off; the tongue, as well as the countenance, was yet difeafed; the latter fallow and, dejected, and the former of the colour of a pomegranate.

19.—Shivering or chillnefs, relapfes, ficknefs at ftomach, head-ach, fore throat, pain of the neck, pain and fwelling of the left ancle, and Z univerfal

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univerfal pains, were all increased by an urgent cough. Languor, dejection, and coftiveness were harraffing. The countenance was yet difeased: and there was something fingular about the eyes of one patient, as if he had been as fraid when he was spoke to. The eruption became livid,* and the tongue had still various appearances: as one black pellicle fell off, another formed very flowly on the tongue. Some recovered.

20.—Some paffed part of the night ill from vomiting and purging. Relapfes; bad tafte of the mouth, fickneis at ftomach, head ach, fore throat, cough, giddinefs, and various pains, particularly of the lower extremities; belly-ach, coftivenefs, debility, and wandering were very troublefome, and petechiæ were ftill obfervable. The eyes were funk in the orbits, and the tongue was fore, chopt, and foul; the itch-like eruptions were thickeft on the extremities; there were furuncles on the fhoulders, and exacerbations towards night.

The convalescents recovered flowly.

21.—Head-ach at times; ear-ach, the univerfal pains, belly-ach, diarrhœa, cough, dejection, and inordinate craving were most frequent. There was a remission by stools and perspiration. The ear continued to discharge, the livid erup-

tion

* Not the itch-like eruption.

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tion was troublefome; the countenance was yet difeafed, and the tongue foul, fore, and had an uncommon appearance; and the convalefcents were very languid, and recovered flowly.

22.—Sicknefs at ftomach, head ach, giddinefs, belly-ach, diarrhœa, fcalding and high coloured urine, cough, dyfpnea, debility, univerfal pains, efpecially of the upper extremities, were the fymptoms most complained of. There was an unnatural motion of the head and hands, and the tongue was still fore.

23.—Some paffed a bad night from bellyach and diarrhœa. Rheumatic pains, ear-ach, cough, the itch-like eruption, debility, languor, and thirst were troublesome. The tongue was dry, but the expectoration was now free and copious.

24.—The head ached, and was confused; the eyes watered, the cough was urgent, coffiveness prevailed, and inordinate craving; despondency, and depression were distressing; the countenance was much diseased, though the patient complained little; the mouth and tongue were foul; the thirst, pulse, and state of the skin varied as usual: one became scorbutic, convaless recovered flowly.

25.—Reaching to vomit, head-achs, ear-ach, wandering pains, debility, tenfion of the abdomen, and coftiveness; an urgent cough haraffed

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the fick-one became fcorbutic. The tongue was still dry and foul.

26.—Some of the fick paffed an indifferent night. Reaching, cough with pain, and foreness about the breaft, ear-ach, and prostration of ftrength and spirits, but especially weakness of the loins were the most frequent symptoms.

27.—Head-ach, coftiveness, pain and foreness of the abdomen, fickness and languor from fitting up in the hammoc, cough, debility, and despondency were yet distressing; the eyes were glassy, and the tongue was covered at times with a flimy mucus.

28.—A very bad night from inquietude : fome were languid and depreffed, and the countenance was yet wild; many of the convalef. cents denied that they flept, and the furuncles were not quite healed.

29.—Head-ach, belly-ach, diarrhœa, languor, and the itch-like eruptions, especially about the thighs, were very troublesome. The tongue had the pomegranate-like appearance.

30.—Some paffed the night ill from pain and ficknefs at ftomach; others from ear-ach, headach, deafnefs, or coftivenefs. Though the patient thought himfelf pretty well, the countenance was yet difeafed. The right fide of the fcrotum of one of the convalefcents, appeared excoriated.

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31.—Relapfe; head-ach at times, ear-ach, pain of the fide, belly ach, a diarrhœa and craving were obferved. The fkin was yet fallow, but the lips were beginning to recover their natural appearance.

32.—Wandering and delirium in the night; chillnefs, head-ach, pain of the fide, diarrhœa, and depression continued. The tongue was foul.

33.—Severe head-ach in the morning, a bad tafte in the mouth, and an expectoration of fomething difagreeable. Universal pains and foreness, but especially of the fide and breast, and costiveness prevailed. The countenance was yet wild.

34.—A paroxyfm in the night, ear-ach, coftiveness, and diarrhœa still observable.

35.—Bad tafte of the mouth, belly-ach, coftivenefs, diarrhœa, dyfenteric fymptoms ever fince they were last mentioned, and debility were frequent.

36.—Head-ach, cough, coftiveness, and a brown tongue, were now the most obvious symptoms.

37.—Pains of the hips and cough were urgent in the night, but the expectoration was eafy and copious; univerfal forenefs and languor were diftreffing. One was very loufy, and feveral had been fo.

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38.—Cough and flight wandering in the night.

39.—Head-ach in the night prevented reft; cough, and expectoration, wandering, diarrhœa, haraffed others; the countenance was wild: one, when interrogated, ftarted up fuddenly, and exclaimed in a loud tone of voice, that he was well. His legs and feet had been cold, he faid, twenty-four hours.

40.—The night paffed ill from raving and inquietude; one patient was greatly emaciated, and loufy. One convalefcent was coffive.

43.—The coffiveness continued, and the itching eruption on the thighs.

45. Sent the coflive patient to fick quarters for change of air and milk diet.—The patient with eruptions was recovering, and fent to fick quarters the 48th day of his illnefs; but he had frequent relapfes during that time. There was one man who did not recover until the 56th day of his illnefs.

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SECTION II.

tor influence of inited:

OBSERVATIONS on the preceding DESCRIPTION.

THERE are fome circumftances in the preceding defcription, which apparently render the fhip fever different from those fevers defcribed in the Physical Journal, of which the following are the most striking.

1. The long continuance of the ship fever on board.

2. The great length of time to which it run in many cafes.

3. The relapfes which many patients fuffered before they recovered entirely.

4. The frequent attacks of it which fome men had, when they were in a flate of good health.

5. The great variety of eruptions which accompanied the fhip fever, particularly petechiæ.

Could the first of those circumstances proceed from any other cause than infection ?—Of which, (though the progress and effects were very evident) of its nature or effence, or of the manner of its operating on the system to produce such a variety of symptoms, I am entirely ignorant.

Does

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Does not the fecond originate from the patient continuing, while in a feeble state, to live under the influence of infection ?

And do not the third and fourth proceed from the fame cause?

Do not the eruptions proceed from the conflitution of the patient?—excepting the petechiæ, which frequently appeared with the other eruptions, and feem to be, generally, a concomitant of the fhip fever, when it is treated as we were obliged to do,—and I may add, in the ufual manners of its treatment by other practitioners.

Whether we have, in our queries, flated the proper caufes of those circumflances, is perhaps of little moment; it is fufficient that their existence indicates a virulent infection, and the confequent neceffity there is for the utmost exertion of human skill to subdue it, or at least to render it as mild as the nature of things will admit.

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CHAP. II.

Section I.

OBSERVATIONS ON REMEDIES.

BEING convinced by experience that the Peruvian bark alone could be depended on in the cure of fevers in a hot climate; I could not conceive, notwithftanding the many claffes of fevers mentioned by authors, and the various methods of cure they recommend, that the fhip fever in America, when it appeared on board the Juno, differed fo materially from the fever I had formerly fuccefsfully managed on the coaft of Africa, and in the Weft-Indies,* as to render my treatment of the one improper for the other. I therefore refolved, after the ufe of moderate evacuations, to place my dependence

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* See a Phyfical Journal, kept on board his Majefty's fhip Rainbow, during three voyages to the coaft of Africa and the Weft-Indies, in the years 1772, 1773, and 1774. To which is added, a particular account of the remitting fever on board the Weafel, on that coaft, in 1769. Lond. 1777. 178 OBSERVATIONS

on the bark; and this refolution I adhered to as long as my flock of bark would permit me, which was until the end of December, 1776.— Afterwards it was in particular cafes only that I could administer it.⁺ Whether the fuccess of this practice justifies my resolution, I leave to the impartial reader to decide from the whole facts hereafter stated.

But the advocates for camphire, antimony, blifters, &c. may probably deny that I wholly depended on bark, feeing I frequently joined one or other of those along with it.* This argument feems at first fight to have weight; but will avail them little if the following circumstances are duly confidered.

First-Until a very short time before the marine died on the 13th of October, I was neither aware that the fever was on board, nor that the patient was dangerously ill; and he took no bark.

Second—Seeing then that the men were daily feized with the fever; and reflecting at the fame time, that many of the people might not only be infected, but that it might be a long, tedious, task to subdue the infection, I joined the other medi-

+ When we arrived at New-York, bark was a guinea per pound—a price fufficient to tempt the fellers to adulterate it.

* See Cafe I.

medicines with the bark to make it hold out, and not from an opinion that they would render it more efficacious. The tartar emetic was joined with it as the most convenient evacuant; as it neither added to the bulk of the dose, nor altered the taste for the worfe. And furely no man would debar me from keeping up the natural evacuations and secretions, or from promoting them when they were suppressed, during the patient's cure, whatever were the medicines I depended on.—But

Third—Should those circumstances not alter their opinion, I refer them to the cases of the patients differently treated, and to the fifth table, where they will see clearly the different events.

Blifters, when applied in the beginning of the fever, carried it entirely off in many cafes,* efpecially if they were then applied on account of the head-ach,—otherwife they produced little or no effect, either by ftimulation, or the fubfequent difcharge.

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* This is agreeable to what Dr. Lind has faid of Blifters, in his Differtation on Fevers and Infection,

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SECTION II.

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METHOD OF TREATMENT WITH BARK.

evacuations and fecretions, or from promoting

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BEING in fo high Northern latitudes, I imagined that the fick in the beginning of their fever would have received benefit by taking away a little blood; but from repeated trials, I found I was miftaken : for though the pulfe and other fymptoms feemed to indicate the neceffity of diminishing its quantity, fcarcely one patient could bear the lofs of a few ounces. without either becoming languid or faint, and complaining more afterwards of debility than other patients. Thus I was taught to withhold the lancet; and am now thoroughly convinced that it will not be neceffary in one cafe among a hundred of a fhip-fever, to let blood .- The appearance of the blood that was taken away, has already been mentioned in the Diary of the Sick Lift, part I. c. ii. § 2. o mining

I therefore began generally with a vomit of pulv. ipecac. gr. v. and fometimes tart. emet. grß. which was repeated every half hour, until it operated—either of which was wrought off in the

TREATMENT OF THE FEVER.

the common way, with warm water*; and in the evening gave one of the following fudorifics, and fage or mint tea, or barley-water, to drink after it, through the night.

R Sal C. C. gr. v.

Opii, grß. fiat bolus.

Vel Tart. emet. gr. i.

- Opii, grß. fiat bolus, hora fomni deglutiendus.
- Vel Effent. Antim. Huxham, gut. xv-xl Tinct. Theb. gut. xv-xxx fecundum ægri ætatem,

Aq. fimp. Ziß.

Syr. com. q. f. fiat hauftus, hora fomni fumendus.

It was feldom thought neceflary to repeat the vomit, in the course of the fever.

If blood was taken away in the morning, the emetic was prefcribed a few hours after, and the fudorific at bed-time. Otherwife, when the patients complained in the afternoon, and blood was taken from them, the fudorific only was adminiftered that night, and the emetic next morning.—Unlefs that procured them feveral copious ftools, within a few hours after its operation, I ordered

noisonab aniwoltor set a contra of R Sal

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* A vomit, when given upon the first appearance of chillness or shivering, (agreeable to Dr. Lind's doctrine) entirely cured numbers of patients. 182

R Sal. cath. amar. 3i.

bas Cryftal. Tart. pulv. 3ij.no von mineve

Aq. fimp. bullientis, Ziv. fiat folutio, et adhuc tepida, bibenda; ac postea, ad libitum, pulmentario tenui utantur.

But in fome cafes the cathartic folution was divided into four parts, and Cort. Peruv. pulv. 3i. administered with each every hour, until it was all taken. At night the following draught was frequently prefcribed.

Re Tinct. Cort. Per. Huxham. 3iij.

--- Serp. Virg. 31

---- Theb. gut. x--xxx

Aq. fimp. Ziß.

Syr. com. q. f. fiat hauftus.

And in feveral cafes, when the head-ach was violent a blifter was applied to the back.

Next day, being the third, and in fome cafes the fourth of the complaint, I preferibed the bark.

R Pul. Cort. Peruv. 3i.

Aq. fimp. Ziß. fiat hauftus; fed, ut visum, Elix. Vit. gut. vi.-vel Tinct. Theb. gut. xx. addendo.

This draught was taken every hour, or every two, three or four hours, as was thought proper; but two ounces of the following decoction with the elixir of vitriol, or tinct. theb. was more generally ordered, after the fame manner.

Cort,

THE FEVER.

Cort. Peruv. craff. pulv. Ziv. Eleuther, craff. pulv. Zij. Aq. fimp. cong. iij. coque ad cong. ij. et cola.

But the bark was always, for the worft cafes, prefcribed in fubftance.—In cafes of conftipation I joined either from ten to twenty grains of rhubarb, or more frequently fal. cath. amar. 3ij. -3 fs; and fometimes tart. emet. gr.¹/₄—gr. fs. When violent pains were complained off at night, I ordered the following anodyne bolus.

Camphor. gr. iv.

Opii, gr. ß-gr. i. ut vifum, f. bol. And for the convalefcents, I ordered an opiate regularly every night.

The drink was either one of those I have already mentioned, or very thin gruel; and those were fometimes acidulated, and fometimes had nitre joined to them.—Clysters and pediluvia were made use of as occasion required.

This was the manner in which I treated the fick until they recovered; but in the mean time I allowed to those patients, whom I thought the properest objects, a little wine from time to time; and when they arrived at a convalescent state, their diet was the most proper that circumftances would admit.

I must, however, acknowledge, that I was much vexed to find the fever was far more obsti-

nate,

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nate, and more difficult than it was on board the Rainbow.

Query—Did this proceed from the difference of climate—of the conflictution of the patients or of the nature of the infection ?

And what was no lefs perplexing, the patients would often relapse from very flight causes, when they were nearly recovered.

But the method of treating this difease will be more fully explained in the following cases.

SECTION III.

CASES OF THE FEVER TREATED WITH BARK.

CASEI.

THO. Lawfon, a marine, aged about thirty, was feized in the morning of the 21ft of October with fhivering, head-ach, ficknefs at ftomach, and univerfal pains; and complained in the afternoon. The pulfe was then fmall and quick.—Emet. ftatim cepit; et postea, potione diluente utitur.

2. The vomit operated well, and he fweated in the night, and feemed a little relieved. Sal. cath. amar. 3i. dedi :--4 pm. a fevere paroxyfm came THE FEVER.

came on, with fhivering for four hours. Sudorificum h. f. deglutiit, et vesicatorium inter scapulas fuit admotum.

3. He paffed the night very ill from great heat and inquietude. No perfpiration. Decoct. co.t. Peruv. Zij. Tart. emet, gr.fs. fexties in die cepit.—4 pm. he became chilly again for a little, and thought himfelf better, though he complained of pain about his eyes, and was much dejected. The pulle was fmall, and quick, and petechiæ appeared upon him.

4. Perfpiration was perceived on him at midnight; and early am. the head-ach and pain about his eyes increafed, the countenance was much difeaf.d, and bloated; he raved; the fkin was hot, and he was thirfty. Medicinam ut heri cepit. At 2 pm. a fevere exacerbation began: he had three ftools, and a fealding from the blifter. Camphor. gr. v. boli forma, h. f. cepit ac pediluvio utitur.

5. He fweated a little, but paffed a very indifferent night from inquietude, and was no way relieved, except of the fealding. Decoctum ex Tart. emet. adhuc cepit, et ex tinct. ferp. Virg. 3 ß. et h. f. bolum camphor. fumpfit.— In the afternoon he had lefs pain, the pulfe was firmer, but the petechiæ were more numerous.

6. He became easier after refting the first part of the night, but the pulse was still quick and hard. Omni modo ut heri præscripsi. Be-B b tween

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tween three and four, pm, a paroxyfm came on, which affected the head much: diarrhœa and belly-ache at times.

7. At midnight there was a remiffion, during which the head-ach, heat and thirft were urgent, and he was haraffed with a cough. Decoct. cort. Zij. pulv. fal. nitr. gr. x. mif. quinquies in die cepit, et anod. h. f.—veficatorium renovatum fuit. He was chilly at times through the day, and purged frequencly.

8. Head-ach, great depreffion, giddinefs and thirft were troublefome; the tongue feemed ftriped red and white, and a little enlarged.— Camp. gr. v. quartaq; hora præscripsi cum potione nitrofa.

9. He paffed the firft part of the night ill from inquietude. AM. he had an unrefreshing fleep, and afterwards rambled much. His voice became very rough, his tongue was black, the teeth covered with fordes, attended with loss of tafte; the countenance was fallow, and much bloated, his eyes exceeding dull, the pulse languid, and the skin dry and hot; but he did not complain of any thing.—Pulv. cort. Peruv. 3i. Tart. em. gr¹. vin. rub. Oport. 3is. tinct. ferp. 3i. quaq; hora præscripsi. PM. he spoke wildly and the tongue was black, but the pulse was firmer, and the voice natural. His body was open.

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to. There was a remiffion all night, and towards morning he flept, having afterwards a copious ftool. In the afternoon he was much better, and recovered his natural voice and tafte, but he felt the universal pains. Ut heri medic. cepit, ac camph. gr. v. h. f.

11. He complained of univerfal forenefs, and took his medicines with reluctancy. PM. his head ached at times, and he was giddy at others, uneafy, and defirous to fleep; the tongue was clean, but chopt, and he continued better in every refpect, having had two copious flools.— Medicinas tertia quaq; hora præfcripfi, ac bolum h. f. ex anodyn.— Diæta tenui fed nutriente utitur.

12. He perfpired and flept in the night, but denied it, and expreffed a great defire to fleep; his tongue was dry, and rather black, with fordes about the teeth when he awoke. His body was open, and his countenance became lively. White fpecks appeared on the bliftered part of the back, which difcharged freely.—Decoct. cort. Peruv. Zij. pulv. cort. 3 fs. tart. emet. gr⁺₁. quinquies in die cepit, et aliter ut heri et vin. paux. fubinde. PM. he continued recovering, but complained of a cough, probably from being got on deck while the fhip was fmoking.

13. He had a tolerable night, but denied that he flept; perfpired freely, and had a copious ftool: TREATMENT OF

ftool: but his bones ached, he faid.-Medicinam quater hodie cepit, et anod. h. f.

14. He refted well, his tongue healed and became clean flowly, but he was fenfibly recovering: tho' he was not quite free of the fever until the 22d. The most evident fymptom about him of the fever, was his tongue when he awoke, which was covered with a black blifter.

He continued to recover until the 30th, when he relapfed with fhivering and delirium;—perhaps from his bedding being wafhed (without my knowledge) and not thoroughly dried, by his meffinates, becaufe he was loufy. The fymptoms moft urgent were, a pain of his fide, univerfal pains, a tooth-ach, and frequent chilnefs: he was gently vomited and purged, and had a blifter applied to his fide; the decoction of bark was given after the fame manner as before, but he continued to recover but flowly until the 27th, when he was fent to fick quarters at Halifax, for a change of air, and milk diet.

CASE II.

James Jourd, aged about 29, a very irregular fellow, was feized the evening of the 28th of October, with a fhivering for four hours, a ficknefs at ftomach, reaching, and a fevere headach; which were followed by heat, uneafinefs, and

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and inquietude. When he complained on the 29th, he looked wild, and was much dejected. Emet. ftatim; ac hora fomni fal. C. C. gr. v. opii grß. boli forma cepit, superbibendo menthæ infusionem ad libitum.

2. The emetic, which was five grains of ipecacucan, purged as well as vomited him; and he fweat profulely from the bolus, which relieved his head; but the anxiety continued, and the countenance was much difeafed. Dyfenteric fymptoms were diftreffing, and the pulfe was quicker and harder than ufual. Dec. cort. Peruv. Zij. quater in die dedi, et anod. h. f.--PM. he was hot, and looked as if he had been drinking.

3. He passed an indifferent night from heat, thirst, and inquietude; but the griping and purging were abated. Decoal. cort. Peruv. Ziß. tart. emet. gr¹/₄. ut visum, sexies in die præfcripsi. PM. he thought himself better, though he was still very feverish.

4. The purging was troublefome, his fkin was hot, thirft frequent, and the pulfe hard.— Decoct. fine tart. emet. dedi, opii grß. ut vifum. PM. he was better.

5. Thought himfelf relieved, though he was very hot, thirfty, looked bad, and voided porraceous ftools. Ut heri præscripsi. PM. an hæmorrhage from the nose, and the purging abated.

6. He

6. He had only two ftools in the night, and refted well; but his countenance ftill feemed greatly difeafed; he was fick at ftomach, and reached at times from urgent cough; his tongue was foul, and the thirft great.—Ut heri præfcripfi et vini pauxillum, vel tinct. cort. bis in die. PM. he was free from reaching.

7. He was eafy after a good night, but was ftill hot and thirfty, and the tongue was dufky in the middle.—Decoct. cort. $\exists ij$. pulv. cort. $\exists \beta$. tart. emet. gr_4^{I} . m. quinquies in die bibit, et op. ut vifum. PM. his belly ached a little at times. Camphor. bol. gr. v. opii gr_2^{I} . h. f. Potio fuit diluens et refrigerans.

8. His countenance and tongue were extremely difeafed, he perfpired irregularly, his pulfe was rather quick and fmall, but he complained only of being coftive.— Pulv. cort. Peruv. 3i. tinct. cort. 3ij. tart. emet. gr₄. aq. fimp. 3iß. fyr. com. 3iß. mifce: fecunda quaq; hora fumpfit. Veficator. inter fcapulas etiam admovi. PM. he was not relieved.

9. He perspired a little in the night, and he had a ftool in the morning; the tongue was enlarged, brown, and chopt.—Serpent. Virg. decoct. et cort. Peruv. (vide Ephemeridem) quarta quaq; h. cepit, et opii gr. i. h. f. PM. his pulse was quicker and irregular, but he always faid he was better, when his health was enquired after. Had feveral ftools.

10. He

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so. He had a stool, was delirious, and very reftless the first part of the night. AM. the pulfe was more diffinct, but weaker, and the fkin was moderately cool; but he lay on his back, as on the two preceding days, with his mouth wide open, by which means his tongue and throat were fo dry, that he could not speak until they were moiftened, and then fcarce intelligibly. He felt his blifters pain him, and was fond of apples, which I allowed him as he chose. Omni modo ut heri præscripsi. PM, he had a ftool; there was a black pellicle on the tongue, the pulse was irregular and quick ; he had frequent startings, was greatly depressed, and covered with petechiæ of different fizes and shapes. Pulv. cort. Peruv. 3ij. tart. emet. gr1. vin. Canar. Zij. (et tinct, theb. gut. xx. ut vifum) fecunda quaq; hora fumpfit.

11. He was much relieved after a good night; he fpoke, and was in good fpirits; the pellicle, or rather thick black cruft, began to caft off from the tongue, and the pulle was firmer.— Cort. ut heri pomeridiano cepit. PM. a most violent exacerbation came on, with deafness and an effusion of tears; neither the mouth nor teeth could be kept clean, the pulse was very fmall, and he was costive.—Camphor. gr. v. h. f. deglutivit. I sufpected that his messimates had given him grog.

12. A

12. A flight remiffion, the pulfe being firmer, and the countenance lefs ghaftly; he was coftive, and always faid he was better,—Enema fuit adhibitum, et decoct. ferp. Virg. et fp. C.C. gut. xxxv. quarta quaq; hora præfcripfi. PM. he had two ftools, in the first there were hard lumps; he coughed and spit up with the utmost difficulty, a blackish and very tenacious stuff, but complained of no pain; spake clearer, and the pulse became stronger.—Cort. et vin. cepit et camph. gr. vi. h. f.

13. He paffed a good night, and was much relieved; the tongue was very fore wherever the cruft appeared. PM. the body was open, and the pulfe full and quick.

24. There was a perfect remiffion after fleeping and perfpiring freely in the night. The tongue was now much fmaller, but the cruft feparated very flowly.—Cort. et vin. ac tart. em. dedi ut heri: diæta tenui et levi utitur. PM. his body continued open, and he was cool and eafy. H. f. ut poftrema nocte.

15. He paffed a good night, fweated, and had a ftool, though he was difturbed by the ventilator.— Ut heri, et gargarifma utitur. PM. a violent paroxyfm, I fufpected, was brought on by grog. The countenance was fluthed, and the eyes much inflamed; the pulfe was rapid, tremors were diffreffing, and he groaned often.

16. He

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16. He flept and had a ftool in the night; the fkin was hot, the pulfe quick and irregular, and he fpake indiffinctly; the countenance was much difeafed; he was again become a little deaf, and though he thought himfelf better, he was anxious to know if he fhould recover.—Decoct. cort. $\overline{3}$ ij. pulv. cort. $\overline{3}$ fb. tart. emet. $gr_{\overline{4}}$. mifce; fexties in die bibit, atq; tinct. theb. ut vifum, et vini paux. fubinde. PM. the tongue was black, the groaning continued, and he was inclined to fleep. The body was open. Camp. atq; anod. h. f. cepit.

17. He had two ftools, and refted tolerably in the night; he coughed and expectorated a laudable pus, and could now put out his tongue, which was blackifh; and though the fkin was cool, there was a difagreeable quicknefs in the pulfe. His body was open; and he eat fome pancake given him by his meffinates.—Ut heri præfcripfi.

18. He refted ill from his bones aching, he faid, from lying in bed; the tongue had the pomegranate appearance, and the pulfe fmall and quick. Cort. ut heri, (fed fine tart. emet.) et camp. h. f. dedi. PM. he groaned without pain, perfpired freely, and began to recover his appetite, but ftill had many petechiæ on him. Anod. h. f. fumpfit.

19. He complained of hunger, after having two ftools, and paffing a good night; but one C c cruft

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cruft continued to fucceed another on his tongue, which gradually became black, though the pulfe was moderate, and his fkin cool .- Ut heri omni modo.

20. His voice was now become natural, but the tongue was fore and black .-- Corticem adhuc cepit. PM. he was hot and uneafy, I believe from irregularity. Anod, h. f. fumpfit.

21. He was eafy and cool, after having a ftool, and perfpiring in the night .- Medicinam ut 18vo. prælcripli.

22. The tongue cleaned and healed flowly .--Ut heri.

23. He continued to recover. Ut heri adhuc.

24. The pulfe became quick, the skin was hot, the tongue and mouth were foul, perhaps from irregularity, but he expectorated laudable pus with his cough .- Decoct et pulv. cort. adhuc, ut 18vo. fumpfit.

He continued to recover, though flowly, until the 29th, when I fent him to fick quarters; towards night he became a little hot. I gave him the bark through the day, and an anodyne at night. n. L. ded1.

CASE III.

DELLERGY FREEN,

Daniel Wilkins, a marine, aged about 28, a very irregular man, complained the 10th of Oct. 1776,

1776, of head-ach and purging.—Emet. statim, ac anod, h. f. cepit.

2. Griping was most troublesome.-Sal. cath. amar. Ziß. præseripsi, et anod. h. s. cepit.

3. He complained more of heat, thirt and head-ach, than of purging; his pulfe was fuller and quicker than natural. —Sal. nitri, gr. x. quater indie, atq; potion. com. dedi.

4. The head-ach was still haraffing. Ut heri; ac tinct. cort. Peruv. 3iij. serp. Virg. 3i. theb. gut. xv. aq. simp. Zifs. sacch. alb. ad gratum saporem; fiat mixtura, h. s. cepit.

5. He had no complaint. PM. his throat was a little inflamed.

6. The inflammation was much the fame, the uvula was relaxed, and he had no appetite.— Cort. Peruv. decoct Zij. elix. vit. gr. v. quater in die fumat.

7. He was recovering .- Ut heri, bis in die præseripsi.

8. He returned to duty.

9. He was irregular yefterday, and relapfed at 2 pm. but did not complain until this day pm. of alternate chills and heats; of fickness at ftomach, head-ache, universal pains, heat, and great thirft.—Emetic statim dedi; posteaq; potione diluenti utitur.

10. The vomit operated upwards and downwards, but the head-ach, continued. Cort Peruv.

C c 2 decoct.

decoct. Zifs. elix. vitr. gutt. v. quater hodie fumat. PM. he was not relieved.—Tart. emet. gr¹/₂. tinct. theb. gut. xx. h. f. cepit.

11. His head ach remitted in the night.—Ut heri omni modo præscripsi. A paroxysm returned at 4 pm. with pain of the limbs.

12. The head-ach continued with giddinefs and a cough.—Cort. Peruv. decoct. Zij. tart. gr¹/₂. ut heri fumat. atq; potion. nitros. Veficcat. inter fcapulas admovi. PM. no remiffion.

13. He was relieved of his complaints, and was easy and cool.

14. On recovery, decoct. ut heri, atq; elix. vit. præscripsi.—From 9 am. to 6 pm. he was chilly and giddy.

15. Complained of debility and universal foreness.—Ut heri.

16. On recovery, decoct. atq; elix. vit. adhuc cepit. PM. he was irregular.

17. Continued to recover.—Ut heri. At 5 pm. he became chilly, and his head-ach returned. Tart. emet. gr.fs. h. f. cepit.

18. He became eafy at midnight.-Decoct. atq; elix. vit. quater in die dedi.

19. He was hot in the night. The itch-like eruption had been troublefome for fome time.— Ut heri.

20. He was recovering.—Decoct. et elix. vit. bis in die fumat.—PM. a paroxyfm came on. Tart. emet. gr.fs. h. f. fumat.

21. About

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21. About midnight there was a remiffion, with debility.—Decoct. atq; elix. vit. quater in dies fumat. PM. fickness at ftomach, head-ach, and universal pains returned. Anod. h. f.

22. He refted well the fore part of the night, but complained of weaknefs, giddinefs and ficknefs at ftomach; his pulfe was quick and feeble. Decoct. fexties in die dedi. PM. no remiffion, and a diarrhœa was troublefome :--Opii gr.fs. ut vifum, atq; decoct. præfcripfi : veficator. inter fcapulas admovendum, et fal. C.C. gr. v. opii gr.fs. h. f. fumendus; fuperbib. menthæ infuf. ad libitum.

23. A flight remiffion, tho' he was difturbed in the night; he did not fweat, but the thirft continued. Ut heri atq; tart. emet. et decoct. quater in die cepit. PM. he was chilly all day, though he was relieved.

24. He complained lefs of his head-ach, but his fkin was hot, the thirft urgent, his pulfe quick and fmall, and he was greatly depreffed. Ut heri præscripfi. PM. an exacerbation came on, and his head was confused and difturbed.

25. He was not relieved; an urgent cough, and thirst haraffed him; his tongue was dry and white, and he was very feeble. Pulv. cort 3 ß. et cort. decoct. Zij. quater in die dedi.

26. He

26. He refted ill from having a bad birth, and complained of much pain and forenefs about his breaft, especially when he coughed; but the pulse was moderate. Linct. emol. (atq; nit. et tart. emet.) q. n. m. quater in die fumend, superbib. pulv. cort. 3i. vin. rub. Zifs. fiat haustus. PM. he vomited twice from the linctus.—Omitted the nitre.

27. He paffed a good night, having perfpired freely, and had a copious ftool. A remiffion of the fymptoms :--PM. a flight exacerbation, but he was fick from fitting up in his hammoc.

28. He had a quiet night, but was very languid, dejected, and looked wild; his body was lax. Rad. ferp. Virg. contus Zifs. aceti lb. iv. coque ut fint colaturæ lb. ii. cui adde pulv. cort. Zi. fyr. fimp. Ziv.* coch. ij quartaquaq; hora capiat, atque vini paux. fubinde. PM. his fkin was cooler and fofter, but the pulfe languid, and he was frequently purged. Opii gr.fs. cepit.

29. He complained of weaknefs and the itching eruption only; but the countenance was much difeafed, and his tongue had the pomegranate appearance. Ut heri.— PM. no alteration, but he had four ftools. Pulv. cort. 3i. tart. emet. gr¹. tinct. theb. gut. xx. vin. alb. 3ij. m. fiat

* This is a decoction of Dr. Lind's. See his Differtation. chap. i. fect. 2. fiat hauftus, fecunda quaq; hora fumend.—pomis libere utitur.

30. He complained only of his blifter and thirft, but he ftill appeared to be much difordered; the diarrhœa continued, and his pulfe was feeble. PM. the diarrhœa ftill continued, but his tongue was clean; he became fomewhat deaf.—Anod. h. f. cepit.

31. He still looked wild, and was thirsty, craving for different things. Ut heri quarta quaque hora præscripsi. PM. the diarrhœa continued, his lips were regaining their natural colour, but he was otherwise quite sallow. Anod. h. s. cepit.

32. The diarrhœa harrafied him in the night, and he was thirfty. Ut heri atq; opio ut vifum. PM. he was much the fame. Anod. h. f. atque camp. gr. vi.

33. He paffed a tolerable night, and complained little, though he was thirfty, and looked wildly. Ut heri. PM. he had four ftools in the day. Anod. atq; camp. h. f. fumplit.

34. He continued to look fallow and wild, and complained of thirst and dearners; his tongue was white. Omni modo ut heri. PM. the diarrhœa was yet troublefome. Anodynum h. f. ut supra.

35. He did not sleep, but was quiet in the night. Ut heri adhuc. PM. the diarrhœa continued, and he dozed Anod. ut 33.

11. 110

36.

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36. He had a good night, and complained of nothing; but his pulfe was feeble, his countenance difeafed, and his tongue brown, and he dozed at times. Ut pomeridiano 29^{ni.} prefcripfi. PM. no alteration. Anod. h. f.

37. His cough diffurbed him in the night, and he complained of debility, and of pains in the hips; and expectorated pretty freely. Ut heri, fed fine tart emet. PM. he began to look better, but his cough was urgent. Anod. h. f. cepit.

38. He passed an indifferent night; the cough and expectoration continued. Decoct. 3ij. pulv. cort. Bij quater in die fumat; vino etiam adhuc utitur. et anod. h. f.

39. The cough and expectoration continued, and he had two ftools in the night; he raved towards morning, and looked wild:—when afked how he was? he anfwered, loud—that he was brave, ftarting up at the fame time. Omiffis med. vini paux. fecunda quaque hora dedi. PM. he faid his feet and legs had been cold the laft twenty-four hours. Anodynum h. f. cepit, et pediluvio utitur.

40. He passed a reftless night from inquietude and raving, and he was greatly emaciated and loufy. Ut heri præscripsi, tertia quaque hora, et ut 38vo. præscripsi quater in die, et pediluv. et anod. h. f.

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41. He refted badly from raving, and flept am. the expectoration with the cough continued, and his cravings. PM. the cough was troublefome, but his appetite began to return Ut heri.
42. He had a good night, and perfpired; he

looked better, his pulfe was firmer, and his fkin warm. Ut heri adhuc. PM. he continued better.—Anod. h. f.

43. He continued to recover, but found the eruption still troublesome.-Ut 39 præscripfi.

44. Recovering .- Ut fupra.

45. He recovered flowly .- Ut heri.

46. He continued to recover. Ut heri.

47. Still recovering .- Ut heri.

48. I fent him to fick quarters for the fame reason I had sent Lawson and Jourd.

CASE IV.

William Hurd, aged about 25, of a thin habit, was feized the 11th of October, with headach, puking, and univerfal pains. Emetic. statim dedi.

2. He complained much lefs, and the vomiting ceafed. Sal. cath. amar. Zi. fump.

3. His head was still affected, though he fweated those two nights past. Sal. nit. gr. x. quater hodie fumatur.—Tinct. cort. 3iij. tinct. ferp. Virg. 3i. theb. gut. xii. f. h. f. a. h. f. fumendus.

Dd

4. He

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4. He flept in the night; but now complained of more head-ach, of pain about his eyes, of heat, thirft, and of his urine fmelling ftrong; his fkin was dry, and his pulfe quick and fmall. Cort. Peruv. pulv. 3i. elix. vit. gut. vi aq. fimp. 3ifs. mifce quater indie fumendus. PM. he was not relieved. Potione fubacida utitur.

5. He was much relieved after having paffed a good night; but his head-ach ftill haraffed him, and he was feeble. Decoct. cort. Peruv. Zij. quater in die præscripsi. Diæta sit tenuis et levis. PM. the paroxysm continued twentyfonr hours.

6. On recovery. Ut heri præscripfi.

7. He complained of weaknefs. Ut 5 medicinam cepit. PM. he became hot, thirfty, and felt his head light. Cum decocto fuo, hora decubendi, tart. emet. $gr_{\frac{1}{4}}$. dedi.

8. There was a remiffion at midnight. Ut heri decoct. fumat. PM. He complained of weaknefs only.

9. He paffed a good night, and was easy. Decoct. adhuc cepit.

10. He was recovering. Ut heri præscripsi.
11. He was feeble. Ut supra decoct. sumsit.
12. He recovered.

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CASE

CASEV.

John Dance, aged about 30, of a bloated habit, with venereal eruptions, complained, the 12th of October, of the head-ach, ficknefs at ftomach, univerfal pains, and fevere gripes. Emet. hodie dedi.

2. His head was still much affected. Cath. hodie cepit. PM. tinct. cort. ₃iij. ferp. Vir. 3i. theb. gut. xv. aq, fimp. 3fs. facch. alb. q. f. m. f. h. f. fumendus.

3. He was relieved in the night of a pain in and about the left eye, which had affected him, but complained of griping and purging. Pulv. cort. Peruv. 3i. quater indie aq. fimp. Zifs. dedi. PM. he was much better.

4. He was now free from the dyfenteric complaints, and was recovering. Decoct. cort. ut Heri præscripsi.

5. He continued to recover. Ut heri decoct. cepit. PM. he became hot and thirfty.

6. He passed an indifferent night from the fever and head-ach. Ut heri. At 8 pm. he was much relieved; the paroxyfm continued about 12 hours.

7. He fweated profufely in the night, and his lower extremities were painful. Ut heri adhuc. PM. the perfpiration continued all day, and he found himfelf feeble.

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8. He

8. He was eafy, but continued to fweat. Decoct. atque elix. vit. cepit. At ten this morning a paroxyfm returned, with fhivering, and he was chilly all day. Tart. emet. gr_{\pm}^{i} . atque. decoctum fumplit.

9. At 8 last night a remission came on; but the forehead ached, and he was giddy. Decoct. cort. ut supra præscripsi. PM. he had an exacerbation of the head-ach for three hours.

10. At 7 pm. an exacerbation of the headach came on. Decoct. cort. atque tart emet. fumat. PM. the head-ach diffreffed him.

11. The head-ach remitted at eight last night, and he continued easy after a good night. Decoct. adhuc quater indies sumat.

12. He was recovering. Ut heri. He thought himfelf a little chilly in the forenoon, but had no fever on him.

13. He returned to duty,

CASE VI.

William Folkes, aged about 32, was feized the evening of the 13th of October, with chillinefs, which was fucceeded by a hot fit, and a profufe fweat—he again became chilly, and complained of the head-ach, lumbago, and thirft. His fkin was hot, and his pulfe quicker than natural. Emet. ftatim dedi.

2. He

THE FEVER.

2. He complained of the head-ach being fevere, but otherwife he was relieved. Sal. cath. am. Zij. fnmat.

3. He complained of the head-ach and thirst. Cort decoct. Zifs. elix. vit. gr. vi. quater in die cepit.

4. His head-ach continued. Ut heri, PM. his left ear became painful.

.5. There was an exacerbation at 8 laft night, which remitted about noon; but the heat and thirft continued. Decoct. adhuc cepit.

6. Yesterday, in the evening, an exacerbation returned, and he became easier at midnight. Medicin adhuc cepit. PM. the head-ach was troublefome at times, particularly the left fide.

7. The head-ach remitted at midnight. Decoct. quater hodie fumat. PM. the ufual exacerbation returned.

8. His head was still affected, especially towards night. Ut heri.

9. He recovered very flowly. Decoct. adhuc præfcripfi. PM. he continued to recover, but complained of a cough.

10. He was recovering. Ut heri.

11. He recovered.

In four days he relapfed, and was much worfe than before. I treated him as I had done formerly, only that he took the decoction of bark oftener, and 3fs. of the powder with every dofe. On the 27th day from his being first feized,

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feized, he was pretty well recovered, when I fent him to fick quarters for the reafon I did the former patients.

CASE VII.

Mahla bas disa-base di 10. bomai

M. L. aged about 20, who lay in a birth with a fick mefs-mate, felt a pain of his back for two days, with lofs of appetite, and lassifitude; and was then (Oct. 21) feized with the head-ach and fickness at stomach—his pulse was quick, and rather hard. Emet. statim dedi et sudorif. h. f.

2. He found himfelf relieved after perspiring in the night. Sal. cath. am. 3i fumat ac fudorif. h. f. repetivi. PM. he neglected taking the falts, and there was an exacerbation. Vefic inter fcap. admov.

3. He complained greatly of the head-ach, and was much depreffed. Sal cath. Zi. cryftal. tart. Zij. cepit. PM. a remiffion came on.

4. He had a pain, at times, over one or the other of his eyes; he was feeble and dejected, and his pulse varied. Decoct. cort. Zij. fal. nit. gr. x. quater in die cepit. PM. there was no alteration.

5. The pain affected the right fide of the head, eye and neck; and darted through to the left temple, upon turning his head—he was coftive.

THE FEVER.

coftive. Sal. cath. am. 3 is cepit, aliter ut heri. PM. the pain continued.

6. His head ached on turning it round. Decoct. atq; elix. vit. gt. xi. quater in die fumat. PM. he complained of more head ach after drinking a little grog. Pediluv. utit.

7. The head-ach, debility, and dejection ftill continued. Ut heri.

8. There was no alteration, and he was coftive. Ut heri atq; cath. leni.

9. He complained much of his head-ach at times, and found it preceded by a stiffness of his neck. Decoct. cort. atq; nit. fumat quater in die: et vini pauxillum subinde.

10. An exacerbation of his head-ach returned at 4 am. without the ftiff neck. Ut heri fed decoct. fexties atq; tart. emet. gr¹/₄. ut vifum, dedi. PM. there was a remiffion at noon, and he was feeble and giddy.

11. He was eafier, but complained of pains in his joints, and ficknefs at ftomach. Decoct. cort. atq; elix. vit. aliter ut 9 præfcripfi.

12. The fickness continued, with an uneasy fensation about the præcordia, and pain of the neck. Pulv. ipecae. gr. v. dedi. PM. he was much relieved by the emetick. Sal. C. C. gr. opii grs. in boli forma h. f. deglutivit.

13. An exacerbation of the head ach returned at

TREATMENT OF

at midnight, and his joints were feeble. Decoct. fexties in die fumat, atq; vin.

14. He complained of heavinefs, giddinefs, debility, and depreffion. Ut heri. PM. an exacerbation of the head-ach came on. Anodyn. h. f. cepit.

15. He paffed a bad night from the violence of the head-ach; a fore throat, (which had been troublefome for two days before, though he did not mention it) and great depreffion. Vefic. inter fcap. admovi, camph. gr. 4, tart. emet. $gr\frac{1}{4}$. boli forma quarta quaque hora deglutiit fuperbib. cort. decoct. $\overline{3}$ ij.—aliter ut 9. AM. he felt himfelf rather cold; pm. he was relieved.

16. He was hot, thirfty, and coftive. Fulv. rhæi 36. cepit. PM he was eafy, but his fkin was hot, and his pulfe quicker than natural.

17. There was an exacerbation of the headach, with heat and thirft—he was much depreffed; unealy at the fcrobiculus cordis, and his tongue was fore and ftreaked black. * Decoct. acet. rad. ferp. Virg. cochlear ij. Ut pro Wilkins 28th ægrotationis fuæ quarta quaque hora dedi atq; vini pauxillum. PM. his pulfe was quick, irregular, and accompanied with tremours; the fkin was hot, and impreffed

* Vid. 28vo. die Wilkins-Cafe III.

a rig. An exacerbation of the head ach acture

THE FEVER.

a difagreeable fensation on the fingers; and he was fick at stomach.

18. He paffed the night ill with gripes, ficknefs and reaching, and he fweated. The blifter difcharged freely. There was a remiffion. Pulv. cort. Peruv. 3i. tart. emet. gr. 4 tinc. theb. gut. xv. vin. alb. Zij. fecunda quaq; hora dedi. PM. he was much griped and coffive. Sal. cath. am. Zfs. cepit, he being averfe to a clyfter. Vini alb. Zij, fecunda quaque hora dedi.

19. He passed the night indifferently, from the pain of his back. Cort. ut heri tertia quaq; hora fumar. PM. he had very little fickness at ftomach, and was in good spirits.

20. His tongue was foul, and he was thirfty, when he awoke, and he complained of debility; the bliftered part pained him. Corticem atque vin. adhuc quarta quaque hora, et anodyn. h. f. capiat.

21. He was recovering, but his neck pained him a little. Ut heri præscripsi.

22. He continued to recover.-Corticem ut fupra ter in die capiat.

23. He was feeble. Corticem bis in die cepit, et vino, ac diæta idonea utitur.

He continued to recover, though flowly, and followed this regimen until the 28th, when he was fent on duty.

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CASE

CASE VIII.

Wm. Elliot, a marine, about thirty-two years of age, (a ftrong man, whofe birth was contiguous to a perfon ill of a fever) was feized on the morning of the 14th of Nov. with chillnefs, head-ach, and lumbago, and afterwards with alternate chills and heats; his pulfe being fomewhat quicker and harder than natural. Emet. ftatim fumat; et h. f. fal. C.C. gr. v. opij gr fs. boli forma præfcripfi, fuperbib. menth. infuf.

2. His fymptoms were a little relieved by a free perfpiration in the night, and two fmall ftools; his tongue was white. Sal. cath. amar. 3i. fumat. PM. he complained of alternate heats and chills, of univerfal pains, head-ache, and thirft; his fkin was hot and dry, and he was much dejected. Veficator. inter fcapulas admovi, ac bolum fudorificum, h. f. dedi.

3. He paffed a reftlefs night from head-ach, pain over his eyes, lumbago, flying pains, and an urgent thirft, though he perfpired freely, and the pulfe was moderate, his tongue continued foul. Medicinam quam pro Wilkins ægritudinis fuæ 28vo. (Cafe III.) præfcripfi, cepit, quarta quaque hora, atque fp. C.C. xxxv. fuperbib. potione diluente. PM. he had a very copious ftool, and was giddy.

4. He

THE FEVER.

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4. He complained of the head-ach, especially about his eyes; of pains in his left fide and back, of an ill tafte in his mouth, and that his tongue was foul. Sal. cath. 3vi. hodie capiat. PM .the medicine operated, but a violent exacerbation, particularly of the head-ach, came on; his eyes were ready to ftart out of his head. Medicin. ut heri, hodie, fine sp. C. C. octava quaque hora fumat.

5. He fweated, and the head-ach remitted about midnight; his lumbago was troublefome, and a dyfuria (probably from the blifter) commenced, and his tongue continued very foul.— Pulv. cort. 3i. cort. decoct. 3jj. tart. emet. gr¹/₄. fecunda quaque hora capiat. PM. an exacerbation began at ten this morning, with a violent fhooting pain of the left fide; but he now complained lefs of the lumbago and head-ach: his body was lax: bolum fudor. h. f. repetivi.

6. At midnight there was a remifion; he
fweated as ufual, and his pulfe continued fofter;
the pain of his fide affected his bowels at times.
Ut heri præfcripfi. PM. the exacerbation began at two PM. during which the head-ach was
the moft fevere fymptom, attended with a cough;
but the body continued lax. Bolum h. f. cepit.

7. There was a remiffion at midnight: he complained of the back part of his head and neck being painful: the diarrhœa continued E e 2 moderate. TREATMENT OF

moderate. Medicinas ut heri cepit. At one pm. a paroxyfin came on. Anod. h. f. cepit.

8. The remiffion began as usual about midnight, with a free perspiration, but he still complained of his fide. Ut heri præscrips, mane et vespere. PM. he had a slight paroxysm between four and six.

9. At three this morning a flight paroxyfm came on, which terminated by perfpiration in the forenoon. Medicinam adhuc fumpfit mane et velpere.

10. A paroxyfm returned at three this morning, with pain of the fide, thirft, and heat, which went off by perfpiration. Ut heri. PM. he complained of the head-ach. Decoct. ferp. fexta quaque hora cepit.

11. He fweat profufely at night, and had three ftools; he now began to recover ftrength, tho' flowly. Corticem atque corticis decoct. bis in die cepit, et anod. h. f.

12. He fweated profuely, and had a reftlefs night. Ut heri.

13. He was fent to fick quarters, in a promiling way of recovery; and he, as well as the other patients whose cases have been related, was foon restored to perfect health.

CASE

CASE IX:

John Audley, aged about 30, a ftrong man, and irregular at times, was feized the evening of the 22d of Dec. 1776, with fhivering, headach, and univerfal pains, particularly in his fide. Emet. ftatim, ac effent. antim. gut. xxx. tinct. theb. gut. xxx. h. f. fuperbib. mentn. infufionem capiat.

2. He perfpired in the night, and was a little eafier. Sal. cath. amar. i. cryftal tart. 3ij. dedi. PM. he complained more of the pain of his fide : veficator. lateri fuit admotum, et fudorific. h. f. repetitum.

3. He was relieved of the pain, but his countenance was much difeafed. Cort. decoct. ii. tart. emet. gr¹/₄. quater in die cepit. PM. he complained of a fevere cough. Anod. dedi h. f.

4. At eight last night a paroxysm came on, during which the heat and thirst were great; the cough was urgent, and respiration laborious.— Ut heri, secunda quaque hora præscrips. At ten AM. there was a remission, and he had no pain in the asternoon.

5. A paroxyfm returned last night, but I could not learn at what time. He had a very bad night from inquietude, the cough, pain of his fide, and dyspnœa. AM. he wandered, breathed

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breathed with much difficulty, looked ghaftly, and in the afternoon muttered or fung inarticulately. Jul. cardiaci Zij. fecunda quaque hora cepit; et vesicator. lateri renovatum fuit. At 6 pm. he died.*

SECTION IV.

METHOD OF TREATMENT WITH ANTIMONIALS, CAMPHIRE, BLISTERS, &c.

THE fame evacutions were now procured, and after the fame manner as in the bark treatment, except the letting blood, which I had now entirely given up thoughts of, unlefs there feemed to be an abfolute neceffity for it+. The patients enjoyed every other advantage, and in a greater degree than they had done under the bark

* This is the only cafe out of 216 wherein the bark can be faid to have failed; and had it been given in fubftance, the patient might perhaps have recovered.

+ The bark method of treatment preceded this, fo that none of the patients who were treated in the manner now to be defcribed were let blood in the beginning of the fever, except Wm James, a marine, one of the first who were feized with it.

THE FEVER.

bark method,—as apples, wine, oranges, and limes; of the two laft of which we got a number out of a prize, as alfo a little wine. The evacuations were as carefully attended to, and either reftrained when they were exceffive, or promoted when they were fuppreffed, as they had been in the former method, and blifters were applied as freely. The camphire and tartar emetic were generally prefcribed as in the following mixture.

Mixtura Febrifuga.

Camphor, 3iß. Tart. emet. gr: viij. Sacchari albiff. 3ijß.

R

Bene fimul triturenter, deinde gradatim fago tenuiffimi uncias triginta adde; atque, fi vifum fit, Sal. Nitri pur. 3ijß.—fiat mixtura, à cochleari uno ad tria, vel quatuor, pro dofe :—which was repeated repeated every one, two, three, four, five, fix, feven, or eight hours.

In a few cafes, from twenty to thirty grains of theriac, with three grains of camphire, was administered every fix or eight hours, instead of the mixture; and in some of the cases the tartar emetic and nitre were given without camphire.

CASE

+ This fufpended the camphire as well as a folution of gum Arabic. 216

CASEX.

Wm. James, marine, aged about 36, naturally flothful, and a tipler, was feized, on the 5th of October, 1776, with head-ach, thirft, pain of the left eye, when he looked at any object, and giddinefs, but he did not complain until the 6th. His pulfe was rather quick and full. Mitte fang. 3xii; et duabus horis elapfis. cath. exhibe. But fo much blood was not taken from him, on account of his becoming faint.

3. He complained of being weak and faint, which I imputed to his natural indolence. Elix. vit gut. xx. bis in die fumat.

4 He had a diarrhœa and was still faint.-Pulv. ipecae. gr. iij. opij grß. fiat bolus, quater in hodie fumendus.

5. His complaints were numerous; he had an ague, he faid, in the night, and bilious vomiting in the morning. Tart. emet. grß. fecunda quaque hora capiat.

6. He was foized with vomiting, and purging. Ut 4to prælcripfi.

7. He still complained of weakness, but from his bad character, and so little appearance of difease about him, I suspected that his illness, in a great measure, was counterfeit. Tinct. cort. 3 ß.

THE FEVER.

Ziß. elix. vit. gut. v. capiat bis in die, and portable foup.

8. I was informed that he was delirious in the night; he continued reftlefs, his pulfe was fmall and flow, and his fkin rather cold. I ordered him a fpoonful of a cordial julep frequently, and wine in his fago; blifters were applied between his fhoulders and to his ancles. PM. he perfpired, but wandered at times, and complained of weaknefs.

9. He died this morning.

Few having had the fever before this man, and thefe having been relieved by very fimple means, I did not think the infection had been received, or that he was in danger, until the 8th, when it was obferved too late.

CASE XI.

Wm. Hardie, aged about 32, was feized the 12th of January, 1777, about noon, with fhivering, head-ach, and univerfal pains. Emetic. ftatim cepit.

2. He complained much of debility, giddinefs, and thirft, and his tongne was foul. PM. his left ear ached, and difcharged freely. Cath. lene fumpfit: veficat. inter fcapulas admovi.— Towards night he became fpeechlefs, his face F f difdiftorted, and he was detirious. Sudor. h. f. et opij gr. i. dedi.—About two hours and a half after taking his medicines he became quiet, and feemed to fleep. The delirium returned more violent at midnight; and notwithftanding the opiate was repeated, he continued delirious, and died at three on the third day; not having been ill 48 hours.

CASE XII.

John Birridge, aged about 40, was ill of fhivering, head-ach, reaching and vomiting, feveral days before he complained (which was on the 19th of Feb. 1777) of being hot and cold alternately, and of great debility. The pulfe was quicker, and the fkin hotter than natural. Emet. ftatim dedi.

2. A fevere pain feized the left fide, and thirft was urgent in the night, while a frequent cough increafed the head-ach. Two fpoonfuls of the febrifuge mixture was prefcribed every two hours. PM. his countenance was wild, he wandered, had tremors at times, complained of great languor, giddinefs, and inceffant thirft; his ftools were watery. Veficat. inter fcapulas admovi, et theriac. Androm. gr. xx. camph. gr. iij. boli forma, repet. 8va quaque hora.

3. He had partial momentary fweats during the night, but was not relieved by them. Ut postrema nocte præscripsi. PM. the watery stools continued, and petechiæ appeared.

4. He refted ill from wandering and inquietude, the fkin was hot, the pulfe fmall, the tongue whitifh, and he was coftive. Ut heri. Enema ut vifum fit injectum. PM. no better.

5. He continued to ramble, his countenance was footy, he complained of heavinefs about the heart, and thirft, though the pulfe was moderate, and his body was open. Ut 2da præfcripfi, ac vini pauxillum dedi. PM. great pain about the fcrobiculus cordis, from an inceffant cough, which brought up phlegm only. Vefic. pectori admovi, et anod. h. f.

6. He was fomewhat relieved after a quieter night than the two preceding; the tremors or catchings had left him, and his blifters pained him; his tongue was white. Medicinas ut heri cepit, et diæta nutriente atq; vino utitur.

7. Last night the rambling and inquietude returned, the delirium now increased, and he complained of cold. Theriac. Androm. 3 B. camph. gr. ij. fiat bol. fexta quaq; hora fumend. PM. he became gradually worfe, had a ghastly countenance, the pulse became very feeble, the tongue was brown, there was a rattling in his throat, and he was costive. Enema commune fuit injectum.

F f 2 8. He

8. He paffed a bad night from groaning and inquietude, and he had two ftools in the night. His pulfe was imperceptible at times; he rolled about his eyes, and turned them up while the delirium continued. Pulv. cort. Peruv. 3i. tart. emet. gr_{4}^{τ} . vin. rub. Oport. 3iß. m. fiat hauftus fecunda quaq; hora præscripsi —He took this medicine but once, for he died 7 pm.

CASE XIII.

Thomas Baker, a prifoner, who had been in the Weft-Indies, had been ill, and coftive five days before he complained; and even then gave a very unfatisfactory account of his illnefs: his head ach had been relieved the day before by an hæmorrhage from the nofe, (viz. March 29, 1779): his countenance was fallow, and much difeafed; he complained of univerfal forenefs and pain about the fcrobiculus cordis, the pulfe was quick but fmall, and the tongue was white. Sal. cath. amar. Zi. cepit ftatim, (which gave him feveral ftools); poftea mixt. febrifug. Ziß. quater in die dedi, atq; potione com.

2. The præcordia were now relieved, but he complained of univerfal pains; the pulfe was more moderate:—Mixtur. febrifug. tertia quaq; hora præfcripfi.

3. Severe

3. Severe head-ach, uneafinefs, and thirst haraffed him, and his pulse was still quick. Ut heri .- PM. he was greatly dejected, and breathed difagreeably through his nofe. Theriac. And. gr. xxv. camp. gr. ij. boli forma octava quaq; hora cepit ; et veficcat. inter fcapulas admovi.

4. He paffed the night very ill from inquietude and a delirium; his refpiration was still difagreeable, and his countenance was ghaftly. Ut postrema nocte, hodie præscrisi fexta quaq; hora. At one pm. he died .- I was informed that he had had a fever not long before, on board the floop he came from; and that the mafter d ed on his paffage from the Weft Indies. The man was lifelefs and difpirited before I faw him ;- the thoughts of his being a prifoner might add to his depreffion, though he was as well treated as our own men. I month be lor

CASE XIV.

Anthony Gafford, aged about 23, a ftrong man, and often irregular, was feized the 12th of March, 1777, with fhivering, head-ach, ficknefs at ftomach, and univerfal pains, efpecially of the loins, but did not complaint until the 13th .--Emet. statim, ac fal. C.C. gr. v. opij. grß. h. f. in boli forma cepit.

22 I

2. He

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2. He paffed a reftless night from coughing ; the head-ach continued, his tongue was foul, and his pulse quick. Sal. cath. amar. Zi. cepit; et postea mixt. febrifug. cochlear. iv. quater in die. PM. he complained of universal foreness.

3. The cough diffurbed him much in the night, but his pulse and the head-ach were now moderate. Mixtur. ut heri fumpfit. PM. no alteration.

4. His head was much affected in the night by the cough, and there was an exacerbation of the heat and quickness of the pulse. I suspected he had been irregular. Mixtur. adhuc cepit.

5. He passed the night ill from a pain in the left fide, which was increased by his cough; he was very reftless and complained of thirst; and the teeth were covered with fordes. Mixtur. ut supra, et linct. emol. ad libitum utitur. Veficat. lateri etiam admoui.

6. Cough, inquietude, and rambling prevented his fleep; refpiration became laborious, his tongue was black, and the pulfe was not perceptible. Pulv. cort. Peruv. 3i. tart. emet. gr¹. m. vin. alb. Zij. tertia quaq; hora præfcripfi.— One pm. he died.

CASE XV.

Wm. Watkins, aged about 37, was feized on the 13th of April, 1777, with a violent headach,

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ach, ficknefs at ftomach, and lumbago; he told me he was subject to fits. Emetic. ftatim cepit, et sudorific. h. f.

2. He was not relieved, and the pain was chiefly in the back part of his head. Sal. cath. 3i. hodie cepit, ac iudorific, h. f.

3. The head-ach ftill continued. Veficator. inter fcap. admov. et mixtur. febrifug. quater in die cepit.

4. He was very hoarfe, and had an urgent cough. Ut heri præscripsi.

5. No alteration for the better, and his pulfe was full. Mitte fang. Zviii. detrahere fit; et exhibe mixtur. ut heri, ac anodyn. h. f.

6. He complained of griping, and a fwelling of the abdomen, difturbing him in the night.— Sal. cath. am. Zi. mane; deinde mixtur. ut antea. PM. he had no complaint, but his countenance was wild, and his pulfe quick. Camp. gr. iv. opij gr ß. dedi.

7. He began to rave, and became very reftlefs at midnight; the delirium continued thro' the day and he looked at his fingers. Mixtur. adhuc cepit. PM. effufion of tears : camphor. bol. atque op. h. f. cepit; ac veficatoria brachijs iuternis admota fuerent.

8. The delirium was lefs, and he paffed the night more quietly, but his countenance was difeafed, his refpiration fhort, and the pulfe was fmall. Theriac. And. gr. xx. camphor. gr. iij. fexta TREATMENT OF

fexta quaq; hori præscripsi. PM. no alteration, only the cough was more urgent: ut 6ta h. f. præscripsi.

9. He paffed a reftlefs night from an increafed delirium; the countenance was ghaftly, and his tongue brownifh. Ut heri: veficat. talis internis etiam admovi. PM. he was comatofe and delirious alternately.—Had involuntary ftools for fome days.

10. The blifters were neglected to be applied yefterday; the pulfe was not perceptible, his teeth were covered with fordes, and his tongue was black. Ut heri præfcripfi.

11. He was quieter, and rational at times; but he was quite languid, and his pulse fcarce perceptible. Ut heri medicinas cepit. At 7 pm. he died.

CASE XVI.

Stephen Hutchins, about 38 years of age, on tne 19th of Dec. 1777, was feized with fhivering, a bad tafte in his mouth, head-ach, lumbago, and pain, with a fenfation of fwelling about the epigaftric region, but he did not complain until the 20th. Emet. ftatim cepit. The emetic operated both ways.—Tart. emet. et opij ana grß. h. f. dedi.

2. His head-ach and pain in the back were relieved by perfpiration in the night; but he was now

now haraffed with an urgent cough, and a forenels at his ftomach. Mixtur. febrifug. ter in die; linct. emol. fubinde, ac fudorific. ut poltrema nocte præscripfi.

3. He paffed the night ill from inquietude; and the cough, head-ach and lumbage diffreffed him at times; he was chilly and hot alternately, the tongue was red in the middle, and thirft was troublefome. Mixtur. quater hodie cepit, ac anodyn. h. f. About two in the afternoon he had a flight remiffion.

4. About ten last night the exacerbation returned; a tinnitus aurium, foreness, and entire deafness of the left ear, which had been a little painful for two days; the pulse was flower than natural, and the countenance fallow and difeased. Mixtur. adhuc cepit, et anod. h. f. tuffe urgent.

5. He complained most of his ear and deafness. Ut heri præscripsi.

6. An exacerbation came on about ten last night, with great pain at the fcrobiculus cordis, which went quite round the thorax; he had a teafing cough, an unnatural respiration, and was much depressed. Ut heri, et tinct. ferp. Virg. zi. 11 am. et 4 pm. dedi; vesicat. etiam dextro epigastrio admovi.

7. At 8 am. an excruciating pain feized the right fide after he had paffed a very reftlefs night:—opij gr. i. deglutivit, ac volatili linimento linivit:—mixtur. tertia quaq; hora præ-

Gg

fcripfi-

fcripfi. Enema ut vifum, et opij gr. i. Et fanguinis Ziv. mitte. PM. no remiffion of the pain, the part was fwelled and tenfe, the breathing laborious, the alæ of the nofe were diftended, the face was flufhed, and covered with fweat, and the pulfe was fmall.

8. After the third clyfter he had a fmall difcharge, with great flatulencies, which relieved him, and foon after he had feveral white frothy ftools : however, he paffed an indifferent night, neither the pain, hardnefs, nor fwelling being carried off : his throat rattled in his fleep ; am. he was faintifh when taken out of bed, but he grew better, and held out very well to fick quarters, where he afterwards died, as I was informed.

The LI BILL CE & DOL deck - VEHICAT.

CHAP.

epigatrio zdriovi.

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CHAP. III.

TABLE I.

Points out the fuperiority of the Bark, over all other methods of managing the Fever on board the Juno.

Under the Ba	rk Method.	Under all i Metho	and the second se
Were treat- ed on Board.	Died on Board.	Were treat- ed on Board.	Died on Board.
216	I	296	6

TABLE

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TABLE II.

Points out the fuccess of the methods of treating the Fever at New-York and Rhode-Island Hospitals.

To New-York Hofpital, and treated with cam- phire, &c.	To Rhode-Island hospi- tal, and treated with antimonials, &c.
Were sent of Died	Were fent of Died
36 5	24 4
15 of whom were convalef- cents. 4 of whom were conva- lefcents.	I of them went from a prize,& I did not fee him. I did not fee him.

TABLE

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TABLE III.

A B L E IV.

Shows the proportion of deaths under the different methods of managing the Fever.

Fever patients treated with Bark.	Fever patients treated in all the other me- thods on board the Ju- no, at New York, and Rhode-Island hospitals.
216 *	296
One died.	15 died-near 1 in 19.

* A number of patients took bark and recovered, after the time of my general method of treatment with the bark expired, who are not here included, but are claffed with those under the other methods of treatment.

DISEASES

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TABLE IV.

DISEASES on Board His Majesty's Ship JUNO, From August, to December, 1776.

Diseases.	Auguft.	Sept.	October.	Novemb.	Decemb.
Fever	34	15	20	23	10
Dyfentery		15	I	2	a balling b
Belly-ach	10 100	614	virgale	Intra	10Vil
Coftiveness	1	I	1	100 1134	1
Diarrhœa	kohe.		I		
Pain of the Stom.		1	The D	die.	I
Reaching		2			
Scurvy	89	5	2	15.40	5
Rheumatifm	10100	2 .	4	2	4
Gout		I	-		
Head-ach	A sloo	1	1	nedials	5
Cough		5	I	2	3
Sore Throat	an de	2		I	5
Hemorrhage			Care and	in the contraction	I
Deafneis	141-211	300 0		1	2
Ear-ach	11 10 S	method	010	2011 222	I
Epilepfy	I	4			-
Ophthalmia			I		
Blindnefs			I		
Nephritis	1			I	
Diabetes			' I	1	

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Diseases.	Aug.	Sept.	Oâ.	Nov.	Dec.
Eruption		1		3	
Impetigo	. rel	· all	I	1.28.50	Dian
Itch	1	1		a fin	1
Scald	I	23.5	I		1000
Contufion	11	8	9	10	3
Strain	1	3	I	1	2
Rupture	1	I		2.	2010-
Fracture	8.		* I	. In	S. 175
Excoriation	1	1	A.	I	117 11
Wound	3	I	I	Con State	I
Inflammation	2	1	2	1	3
Furuncle	4	Fill	I	A BARRE	1246
Abfcefs	I		1.2		I
Ulcer	4	3	2		I
Accidents	8	-	201	1419	I
Drowned		I	-		
N. C.D. sizesta					
No. of Patients	150	73	54	50	51
No. of Deaths		2	1		I
No. of Patients fent to Hospitals or fick Tent.		24	11	1	

TABLE IV. CONTINUED.

TABLE

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TABLE V.

DISEASES on Board His Majesty's Ship Juno, From JANUARY to MAY, 1777.

1 1 1 1	1	1 1 1 1 1			1. Transaction
Diseases.	Jân.	Feb.	March.	April.	May.
Fever	21	13	41	14	8
Peripneumony	a	8	1		Land .
Eryfipelas		1		1	uspatt
Dyfentery	1	2	1		maria
Belly-ach	2		2	I	1.0
Diarrhæa	1			uors	Regard
Pain of the Stom.	+	17	I		I
Scurvy	2	1		1	1
Rheumatifm	I	2	3	3	5
Head-ach	I		I	3	1
Cough	6	13	17		Tablerry .
Sore Throat	5	2	8	4	Subarte
Hæmoptoe				T	2
Confumption			I		
Deafnels	12-6	1 23	.026	ale man	- 1
Ear-ach	I			7	1
Epilepfy	1		······	1	
Nephritis	I	I. T.		dants".	A star
Diabetes	I			. Trate	24 Mg
Suppref. of Urine		I			
Hemorrhoides					1
(man and all and all all and a					

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V1	1.1.1	1.1 - 21	4		
DISEASES.	Jan.	Feb.	March	April.	May.
Eruption	1	I	2	T	I
Scald	mus	2	2	4	1
Contufion	11	10	7	. 8	1.3
Strain	5	I	3	I	2
Rupture	lin_		1		I
Diflocation		1		1	
Fracture			2		1
Excoriation	I	1			I
Wound		3	2	4	121/2
Inflammation	2	3	6	4	3
Abfcefs	+	I	4	I	A COM
Ulcer	3	6	9	10	2
Drowned	I	144		- Constant	end dit
Number of Patients	67	64	113	68	38
Number of Deaths	2		2	14	I
No. of Patients fent to Hofpitals	7	5	8	1.11	0700211 112.6.17

TABLE V. CONTINUED.

Hh

TABLE

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TABLE VI.

Whites NE

Shewing the Event of the particular Diseases.

Diseases.	Number.	Number fent to Hof- pitals.	Deaths on Board.
Fever	199	7	3
Peripneumony	1		
Erynpelas	I		AUTO SOLID
Dytentery	21		21012424
Beily ach	9	1	Resolution 1
Coftiveneis	3		Sum M?
Diarrhœa	2	1	Indianamerica
Pain of the stom.	3		
Reaching	2		
Scurvy	107	38	103103
Rheumatifm	26	8	(paunos (1
Gout	1		Constant Providence
Head-ach	11 11	229	and a second
Cough	48		
Sore Throat	27	5 1 10	120 movie of
Hemorchagia	1		TO BE CL
Hæmoptoe	2	letan	No. of Pat
Contumption	2	V I stati	fenttp Hot
Giddineis	and the second	1.	A STRANGE
Deafnels	4	The state of the s	
Ear-ach	11	and star	No. of Concession, Name
Epilepfy	6	3	1000
Ophthalmia	L'		The second
Blindnefs	I		
Nephritis	2		

TABLE VI. CONTINUED.

Diseases.	Number.	Number fent to Hof- pitals.	Deaths on Board.
Diabetes	2	2	CINCLAL
Suppref. of Urine	1	and the second	
Hemorrhoides	T 11		127 L
Eruptions	10	ernalite Tabur	L'an undarial
Impetigo	1	Cestinad, 199	moles and
Itch	2		
Scald ***	11	Homesen	and an an an and a star
Contufion	80	A the	bernarnie v
Strain	20		eg alles here is
Rupture	3	I	
Diflocation	2		
Fracture	4	1	1 Standard
Excoriation	5		
Wound	15		11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Inflammation	26	advente 10	history
Furuncle	· I		
Abtcefs	8	and the second	the second se
Ulcer	40	7	- · · ·
Accidents	I	and the second second	1
Drowned	2		2
Whole Number	728	\$2	7

Hh2

of parts when the

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TABLE III.

Shews the Number of Fever Patients for Ten Months, and the Proportion of Deaths.

Number of Fever Patients for Ten Months; befides Pa tients with Rheumatifm, Cough, fore Throat, and Ear-ach, which were all ac- companied with Fevers, & amount to 112	Died on Board.
Proportion of Deaths	One in $66\frac{1}{3}$.

- Of the three who died of the fever, two were in a defperate ftate before they applied for affiftance; and the other met with an accident while he was ill, fo that the bark in neither cafe had fair play.
- Of the fever patients fent to the hofpital, one was in a convalefcent flate, and another was fent the day after he came from a tender. With fcurvy, 27 of the 38 were fent to the tent for the benefit of air and milk. Some were fent thrice for this complaint.

OB-

OBSERVATIONS, &c.

PART II.

INTRODUCTION.

TO afcertain the efficacy of the Bark in curing the fhip fever,—when his Majefty's fhip the Edgar was put into commiffion, on the 25th of May, 1779, (regardlefs of the expence which I knew must attend the experiments, tho' I could ill afford it) I provided myfelf then, and from time to time fince, with bark for that purpofe; and finding it, in a very extensive practice during this period, fucceed to my expectation, I can with pleafure recommend it as a cure for *this fever*, as well as for the *tertian* of hot climates. The following pages therefore, as they contain an epitome of our management of the fever, from the above date, to the 31ft of July, 1780, 'tis hoped will not be unacceptable to the reader.

In fupport of this fact, I could infert hundreds of cafes in which we have administered bark, and the

INTRODUCTION.

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the names of feveral young gentlemen of the profeffion, who have been witneffes of our management of the fever, befides the names of other gentlemen, who by our recommendation have experienced, in their own practice, its happy effects; but as doing this might appear oftentatious, if not tirefome to the reader, we fhail only relate a few cafes to illustrate the fubject, and feldom mention other practitioners. As the laft argument on the fubject, we have fubjoined a few tables, on the fame plan as thofe which are annexed to the preceding obfervations.

By the positive evidence which may, we prefume, be fairly collected from our Physical Journal, and the former part of this work, but more particularly from the clearest negative evidence in the following sheets, 'tis hoped we have fatisfactorily proved our affertion at the end of the Introduction to the Observations, intimating the fatal effects of delaying fo long to give bark in the fever.

The reader is not to expect another defcriptioh of the fever; a more faithful one than the preceding we cannot prefent him with.—'Tis true we could arrange them in a different manner, but we could not render them more diftinct. A few fymptoms, however, which occurred on board of the Edgar, that did not appear, at leaft were not obferved on board of the Juno, are inferted diurnally, previous to the relation of the management of the fever.

It

INTRODUCTION.

It will feem paradoxical to mention that bark is a cure for the fhip-fever, and afterwards to allow that patients died of this fever, where bark was administered. When I spoke of bark as a cure for the fhip fever, I meant, comparatively to what other medicines I have hitherto known to be used for that purpose. A never-failing remedy for any difeafe, is, I believe, unknown to mankind; if any fuch there is, mifconduct too often renders it ineffectual. Thinking it therefore of more importance for the inftruction of young practitioners, to lay before them a few cafes at length, which terminated fatally, than to prefeat them with the hundreds which yielded to the bark, we have in the fequel, as in the former observations, related these particularly; trufting that our candour will meet with benevolence from those who may think we have erred in our practice.

That it may be feen wherein we differ in our management of the fhip fever from many eminent phyficians, we fhall concifely lay their theory and their method of treating it before the reader. But it will be proper first to inform him briefly how the Edgar was manned, and by what means the infection was brought on board, and continued active fo long.

CHAP.

CHAP I.

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How the EDGAR was manned, and by what Means the Infection was brought on Board, and kept active fo long.

HE Edgar was built at Woolwich, and lauched June 30th, 1779; and if credit can be given to reports, about 2000 men entered for her in different parts. Certain it is, however, that the marines excepted, which came partly from all the three divisions, most of her men entered for her in, and came from Scotland. Men entering there have the fame conveyance to their respective ships, as if they were impressed. They are fhipped and crouded on board of tenders; and after, perhaps, a very long paffage to the Nore or the Downs, they are put on board of the guardfhips, which are often very much crouded, and there they remain until their fhips are ready to receive them, when they are carried to them by other tenders. Whether that happens in a long or a fhort time, will depend on circumftances.

On board of the tenders they lie in bulk, and on board of the guardfhips many lie on chefts and

OF MANNING THE EDGAR.

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and the decks, and often without beds. It is not in the nature of things that men labouringunder those difadvantages, and coming through fuch a channel of infection, as tenders and guardfhips unavoidably muft be, while they continue on the prefent establishment, can escape being either infected themfelves, or bringing it in their cloaths and bags to their respective fhips.

The Edgar being manned in this manner, the ship fever made its appearance immediately, and foon after increafed with violence in fpite of the precautions that were taken to prevent it, until the month of December, when it abated, and decreafed gradually to the 16th of January, the day of the action with the Spanish fleet, and ftill more perceptibly for fome time after, though we were crouded with the prifoners until the 23d of Feb. During that time, fome of the prifoners were feized with the fever, but I could not learn whether their own fquadron had been fickly or not. Soon after the thip was haled into the New Mole of Gibraltar, where fhe lay above three weeks. The people had liberty to go afhore, and, as usual with them, many got drunk as often as they went. About this time all the British seamen, who had been in Spanish jails, were releated by cartel, and fent on board of us. of whom fome were very ill of the fhip fever .----The declining infection was now rouled into new

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new life; but a little before we left Gibraltar (on the 20th of April) it began to decline, and continued doing fo on our paffage to England, where we arrived on the 13th of May. Here, from the men's intemperance, after having been five months without fresh provisions or vegetables,-and by having men fent on board of us from the guardship, (the Arrogant) as also from the Princeffa and Prince William, on board of which the fever was-the infection became far more virulent than ever; and continued fo until it was providentially checked by repeated fmoakings with tobacco in the months of July and August; for which I readily obtained leave from Capt. Elliott, to whom I wrote the following letter on that occasion.

Edgar at Sea, July 6, 1780.

SIR,

THE infection which has exifted on board of His Majefty's fhip, under your command, ever fince fhe was manned, having of late become fo virulent as to refift the methods that were fuccefsfully ufed formerly to check it,—I beg leave to acquaint you, that it will be highly neceffary to have recourfe to other means for that purpofe; and to inform you that the most effectual which I have ever experienced in a fimilar cafe, are, to fmoak the fhip frequently with tobacco. The tobacco ought to be well wet with vinegar, and laid on fires placed in tubs, having water

OF SMOAKING THE EDGAR.

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water and fhot under them; and these ought to be fo fmall as barely to light the tobacco, that it may smother away. Seven fires will be requisite for one smoaking, and two pounds of tobacco at least for each fire. All the ports should be barred in, and the hatchways covered with tarpawlings, when the fires are lighted; and the smoak should be thus confined for three hours at least.

I am, Sir, Your most obedient, humble Servant, R. ROBERTSON. Capt. Elliot, Commander of His Majesty's Ship Edgar.

To which Capt. Elliot returned the following Anfwer.

Edgar at Sea, July 6, 1,80.

SIR,

I HAVE received your letter of this date, and have given directions to the purfer of His Majefty's fhip under my command, to fupply fuch quantities of tobacco as you may, from time to time, think it neceffary to demand for the purpofe of fmoaking the faid fhip, to check the progrefs of the infection therein, agreeable to your recommendation.

I am, Sir, Your most humble fervant, J. ELLIOT. Mr. Robertson, Surgeon, Edgar. I i 2 Edgar

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SIR.

The happy effects of this management were thus reported to Captain Elliot :

• Edgar at Sea, August 17, 1780.

On the 6th of July laft, when I reprefented to you that the infection was become fo virulent as to render it neceffary to have recourfe to other means than had formerly been ufed, fuccefsfully to check it,—the number of fever patients on the fick lift was fifteen; and for fome days before was increasing by two or more daily. Since that period the ship has been shoaked five times with tobacco, after the manner I proposed; only mixing sulphur with the vinegar, to prevent the tobacco from being embezzled; which purpose it fully answered.

I have the pleafure to acquaint you, that the number of fever patients is now reduced to four; and that for the laft twelve days only four fever patients have complained.

Should you approve of it, I am of opinion, were this matter reprefented to the Lords Commiffioners of the Admiralty, it might be productive of future benefit to the fervice.

I am, Sir,

Your most obedient humble fervant,

R. ROBERTSON.

Capt. Elliot, Commander of His Majetty's Ship Edgar.

Greater

THEORETIC DOCTRINE, &cc. 245

Greater diligence could not be exerted to get the fhip healthy, and to keep her fo, than was by Capt. Elliot, and the first Lieutenant, whose duty it was to execute the Captain's orders. Every thing which I proposed for that purpose being readily adopted.—It is doing Capt. Elliot no more than justice to declare, that his liberality to the fick exceeds what I have met with in the fervice.

C H A P. II.

THEORETIC DOCTRINE AND TREAMMENT OF FEVERS.

"A Fever, fay phyficians of great eminence, being an effort of nature to throw off fomething noxious to the conflitution, we are not to impede her operations by either checking or affifting her rafhly." This is the polition which they lay down for the general method of treating fevers; but how little they adhere to it in practice, is obvious from reading their works. Through theie we find theory urging the moft cogent realons for letting blood, once at leaft, which is all that they preferibe the first day.— Theory we again fee pointing out powerful arguments to promote vomiting, purging, and fweating, in fucceffion, which employ feveral days

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days. Now we observe theory rendering it, to them, abfolutely neceffary to keep up a moderate perspiration; and the inteffinal coat in a lax state: for which purpose, antimonials, camphire, or both, are generally prefcribed. But notwithstanding these, and their calling in at last the aid of blifters, cordials, and bark, the ftrength of the patients having been exhausted early in the fever, many are loft, and the fault too often imputed to the bark. Numberlefs quotations might be adduced to prove what we have faid; and I appeal to the reader, how far the practice of those physicians coincides with their polition. If they believe the former, why contradict it by the latter ? Can any man, in the higheft health, and ever fo athletic, endure fuch a feries of debilitating evacuations, without the operations of nature being affected ?- Laying the circumstance of diet, which is of g eat importance in supporting the strength, entirely aside.

The field for theoretic argument is boundlefs; but it being foreign to our purpole, we leave it to thole who have more leifure and inclination to enter it fcientifically. Be it our tafk to adhere to experience, to ftate clearly what it teaches, and thus affift the unexperienced of the profeffion to manage the fhip fever more fuccefsfully than it has been hitherto on board of his Majefty's fleet. To accomplifh this, or in other words, to lay a foundation for reducing the management SYMPTOMS OF THE FEVER.

nagement of the fhip fever, as well as the tertian or remittent fever, of hot climates, to a fyftem, has been our ftudy for many years. Having repeatedly avowed, however, that we pretend not to dictate to the learned and experinced practitioners; inftead of their cenfure, we hope for approbation for the unprofitable tafk.

CHAP. III.

Symptoms of the FEVER, that occurred on Board of the EDGAR,, which were not observed on Board of the JUNO.

ON the first day some patients complained of the following symptoms:—Heaviness and a flight lethargic disposition; a degree of hardness and swelling, with pain of the right groin; an inflammation or soreness of the throat, and an exudation of pus on the tonfils; accompanied with a fetid smell, a very offensive breath, and an eruption refembling measles.

3. An angry eruption about the mouth; and the patient, when afked to fhew his tongue, took hold of it with one hand to pull it out of his mouth downwards. This was the cafe of a relapfed patient.

4. Hiccough in fome cafes, which terminated favourably, and in one which ended fatally with a convultive catching; difficult expectoration of a bloody and extremely vifcid phlegm.

6. Profuse

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6. Profuse hemorrhagia from the nose.

7. The laft fymptom mentioned the third day, coftivenefs, with yellownefs of the tunicæ albugineæ oculorum.

8. A perpetual drynefs of the mouth, and a yellow fuffusion over the body and eyes.

9. The fick fwallowed what was expectorated by cough; a rattling in the throat was perceived, which was followed by death on the 13th.

10. The last fymptom mentioned on the third day.

13. The patient provoked a tendency to reach by putting the fingers of the left hand into the mouth as far as he could, and pulling his tongue when no perfor was in fight; afterwards he picked his teeth. He died the fame night.

14. The eyes appeared yellower fometimes than they did at others; the cuticula feparated and pealed off; paralyfis, and an uncommonly large and healthy-like flool.—This patient died.

16. Rigidity of the limbs.

19. A vomiting of watery fluff only, though other things were in the ftomach.

20. An extremely vifcid and bloody phlegm was expectorated.

It is remarkable that virulent as this infection was, no petechiæ ever appeared on any of the patients :--Query, Could this be owning to any other caufe than the bark having been liberally administered ? (249)

CHAP. IV.

Of the Management of the SHIP FEVER.

HOW far the preceding polition laid down by many eminent Phylicians is juft and applicable to Fevers in general, is not our bufinels to enquire, much lefs to determine; but we have learned by experience, that it is not applicable to the Ship Fever, which apparently is "The effect of poifon in the conflicution, whence imminent danger or death mult follow, unlefs it be either speedily subdued or expelled;" and therefore, that the most expeditious method to accomplish either is the fittest. The method which we have found best adapted to the purpole, we now proceed to show.

Ift. Of Blood-letting.—In our observations, we took notice that the climate, and other circumstances under which we then practised, induced us to think it proper to let blood in a number of cases, especially when the patients first complained; but by daily observations, and a careful review of the diary, it appeared, that it never was productive of good—on the contrary, of mischief often : and having never found in a more extensive practice, that one patient has fuffered by omitting that evacuation, (for I K k

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have never let blood of a patient ill of the fhip fever on board of the Edgar) I can affure the young practitioner, that in a hundred cafes it. will not be neceffary to let blood. I will not aver that a cafe cannot occur wherein it may be proper; but we have not met with fuch a one among feveral hundreds, and I therefore caution young practitioners against Blood-letting.

A friend of mine, who is furgeon of a feventy-four gun fhip, in a conversation on this fubject, told me, that it was his practice to let blood of his patients, and that it feemed to relieve greatly; especially when they had fixed pains about the thorax. I advised him to omit bleeding fome of his patients in future, and treat them with bark; and to obferve whether they did not recover fooner than those from whom he took away blood, and treated in other respects, as his other patients. The next time we met, he told me that he had followed my advice, and found that the patients whom he bled became much weaker, and were recovered with greater difficulty than those who were not bled. This is a pointed teftimony of an unwilling evidence against a favourite evacuation of his own, and of too many more.

2d. Of Emeticks.—We mentioned in the obfervations, that, if emetics are administered when the first symptoms of contagion are perceived;

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or during the cold, or fhivering fit of the first paroxysm, they frequently become a preventive of the fever, as Dr. Lind has likewise observed: but otherwise, we have rarely found them of further benefit, than as a preparative for the bark;—and however early in the disease the patient took it, I prescribed a sudorific at bedtime. Indeed the emetick frequently procures several stools, and seas, but these feldom are critical, unless at the times already mentioned.

After what is faid, we hope it is unneceffary to enjoin young practitioners to vomit their patients as foon after they complain as poffible; and immediately after to give a gentle fodorific, expofing the patient as little as poffible, that the perfpiration, if they have dependance upon it, may be kept up as long as they judge proper. But fhould the patient have been ill feveral days before he complained, it will be, generally fpeaking, a lofs of time to promote fweating, and idle to expect relief either from vomits or fudorifics.

The emetics which I prefcribe are either the pulv. rad. ipicacuan. or tart. emet. in the manner I have mentioned in the obfervations. I would earneftly recommend it to young gentlemen of the profession to administer the tartar emetic in small doses, every half hour, until it operates; left they otherwise do their patients K k 2 much

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much hurt instead of good. Great is the mifchief which has been occasioned by giving from three to fix grains at once—universal spass, and extreme debility, which have proved the means of death.

If the emetic is given before noon, the remainder of the day must not be lost. Unless the patient has had a copious stool or two, I order a gentle cathartic to be given two hours after the vomiting is finished : the cathartic which I generally order is the sal. cathart. amar. Zi. with, or without, cremor. tart. Zij.—To save time, in many bad cases, I have given the tart. emet. and sal. cath. am. together, in small quantities, repeating them until a stool was procured; and then ordered the bark.

3d.—At bed-time I would advife a fudorific to be administered, and the limbs to be washed with warm water, and a little vinegar. Sudorifics are very numerous; but what I have prefcribed on board of the Edgar, is either of the two following—Tart. emet. gr.fs. vel gr. 1 opij. gr. fs. conf. rof. fiat bolus.—Vel fal. C. C. gr. v. opij. gr.fs. con. rof. fiat bolus; hora fomni fumendus; fuperbibend. potione diluente, tepida, ad libitum.

Should the patient have been ill fome days before he complained, and the head ach violent, it will be the more neceffary to apply a blifter

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blifter between the fhoulders at this time.—If it was evening before the patient complained, I only thought fit to give the emetic and fudorific, and to bathe the limbs.

4th.—The next, or fecond day of the patient's complaining, I ordered him the cathartic, unlefs the emeric had procured fome ftools; and unlefs bark was preferibed together with the cathartic, which was often done, I began to give it as foon as the patient had one or two loofe ftools, and afterwards it was continued from every one, to every four hours, as I faw occafion. The fudorific was, often, again repeated at bed-time, and the blifter applied as already mentioned, when the head-ach was violent.

5th .- I have remarked in the observations, that unless blifters are applied very early in the Ship Fever, I could hardly fay they ever proved beneficial, except in cafes with fixed pains about the thorax, which they often removed without abating the fever. I am fo well confirmed in the juftness of the remark by longer experience, that I recommend it to young practitioners to apply blifters early in the fhip fever, without regarding any theory on the action of cantharides and bliftering in the beginning of the fever-if they with to apply them with good effect. I therefore again repeat it, with Dr. Lind, that when applied early, they often carry off the fever entirely : but I must add, though contrary

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trary to that eminent phyfician's opinion, that I never perceived good effects from them, or the difcharge which they procured, in the advanced ftate of the fever, except in the cafes before mentioned.

6th. Of Bark.—In fome cafes, I prefcribed it as foon as the patient complained, without waiting for any evacuation whatever;—in others, a few hours after they were vomited only; and often along with the cathartic, according to the exigency of the cafes. The more dangerous and alarming they are, the more neceffary it is, —experience has convinced me to adminifter bark early.

However, generally speaking, the fick began to take it a few hours after the cathartic had operated; and in some favourable cases, it was the third day before they took it: but it ought to be known, that if the patient did not complain until the evening, I reckon that as one day. At whatever time I prescribed it, the patients continued it; a drachm, a drachm and a half, or two drachms for a dose, from every hour, to every four hours, as seemed proper—diminishing the number of doses as they recovered, until they were cured. Two ounces of bark was mixed at once with a quart of water;* two, three,

* See our reafons in the Phyfical Journal, p. 144.

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three, or four ounces of which were a dole, according to the quantity deemed neceffary.

Though this was the fimple manner in which I generally administered bark, yet, as in many cafes we joined other medicines along with it; and as our chief dependance for the cure is on it, we shall be more particular on this head, and at the fame time endeavour to combat the principal objections which theory furnishes against the early use of bark in fevers; those are the supposed tonic, pblogistic, and constipating qualities of this medicine; which, if I miftake not, may be exprefied in the word mechanical. I wish to know however, of phyficians who attribute those qualities to bark, whether by fair and candid experience they have found it to poffefs them; or whether it be their own opinion, or that of others, grounded on theory only, that it does poffefs them ?-If they answer the latter query, affirmatively, I would further know, what are the qualities of bark in their opinion which cure intermittents, large foul fores, bad-conditioned ftumps, gangrene, mortification, and other difeafes, and which prevents fever and infection ?

Patients labouring under intermittents, as they, comparatively speaking, are in a higher state of health than ship fever patients, who very often are seized with the greatest prostration of strength and spirits—ought they not, according to the doctrine of those gentlemen, to be more

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more improper objects for the tonic, phlogiftic, and conflipating bark than the latter, after the prime vie are emptied ?- In what manner, I fay, does it act on the man in perfect health, who takes it as a preventive of contagion, and in the other cafes mentioned ? Does it exert different qualities in the various difeases for which it is prefcribed, as the beft remedy yet known? Or, in a word, which, I believe, comprehends the truth, are not the qualities and properties of bark by which it cures fo many difeafes, entirely unknown to us? This being the refult of the argument, let us not be fo anxious, or employ our time fo idly, as to ftudy to attain knowledge beyond our reach-to comprehend the effential properties of one of the beft medicines-if not the very beft-with which Providence has bleft us; and far lefs to raife objections against it, because we know not the manner of its acting on the conflicution-objections which common fense can overthrow, and daily experience confutes. From my own experience, I have not a doubt but that where one patient has died of the ship fever from bark being prefcribed too early and liberally, thousands have died in the world from a contrary practice. The danger which theorifts threaten us with from an early and liberal ufe of bark in this fever, ftrikes me with the fame idea, as if they were to tell me that I would poffibly

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poffibly fall, if I attempted to run out of a house which I knew was on fire, and contained a quantity of gunpowder sufficient to destroy the fabrick and its inhabitants.

That we may view this important fubject, however, in another light, we will suppose bark really to poffefs the qualities of tonic, phlogiftic, and constipating; and for this purpose, we will ftate a cafe as favourable to their theory as they can wifh. "The patient, who has been already gently vomited, purged, and perhaps fweated and bliftered, is not relieved of any of the fymptoms, which, though not violent, will affuredly become fatal if the fever is not fubdued." The queftion then is, what method is the most eligible to fubdue it ?- I fay, bark is by far the beft febrifage known. But then you reply, it poffeffes fuch qualities as to render it very improper for your patient .--- I know all its qualities as well as you do, and experience has taught me what it will effect. Let me know what are the fymptoms your patient has-Various pains, efpecially head-ach, thirft and anxiety, the fkin is dry and hot, the pulfe quicker and fuller than natural, and the tongue parched; and you add, that the fymptoms induce you to think, that instead of bark, it would be proper to give him antimonials, camphire, nitre, and fubacid and diluting drinks, to promote diaphorefis and moderate the fever. 1 answer, ton borowood o L I been from now that

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that I know from experience, it is very doubtful whether they effect this or not, and ftill a greater doubt if they will cure the patient; I know the odds are fifteen to one that they will not fo certainly as bark : therefore, whatever elle you like to give your patient, I advise you to give bark as the bafis of your prefcription .- You afterwards tell me, you have tried your patient with bark repeatedly, that his ftomach will not retain it, and that he is not relieved :- I would have you then join either opiates, tinct. cort. wine, or fp. C.C. with it; and to leave them off, or to continue either of them as you fee proper, even after the ftomach retains the bark. You next inform me, that your patient has remiffions, but that he has had only one ftool, fince he began with the bark; or that he has had a diarrhœa ever fince .- Add, in the former cafe, a fmall quantity of any mild purgative from time to time, with the bark, or throw up a clyfter as often as you think proper; and, in the latter, join opiates with it: Again, you inform me, that your patient is greatly relieved, but still has difagreeable exacerbations of heat, the skin dry and hot, and the pulle quick, and you with to promote a perspiration-I ask you then, cannot you add fal. amon. crud. fal fuccin. fal. C. C. tart. emet. or camphor, to the bark, as you pleafe? reminding you at the fame time, that profufe perspiration must neither be promoted nor encouraged.

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couraged. Last of all you tell me, that your patient is quite feeble, has exacerbations towards evening, and is reftlefs through the night .---You are then to order him wine either with his bark, or otherwife, as you think proper; but to pay attention to his diet, and to give him an anodyne regularly every night till he recoverswhich you tell me has happened, the next time we meet; but you cannot help adding, that I have prescribed for the patient in a very different manner to what the greater part of physicians recommend in fuch cafes; and afking, how can you deviate fo widely from the general practice ?- To this I answer, that I only deviate from the general practice, because it fails fifteen times where bark fails once*. In a pretty large hospital, I have seen one in ten die under the general practice. I know, fay you, that you are now alluding to the ship fever; but would you prefcribe bark in all other fpecies of fevers ?- I answer, I know not how many species of fever you reckon; but I would prefcribe it in every cafe that did not proceed from local inflammation. What ! in the fmall pox and meafles ?- Certainly, I would tell you, if they unfortunately broke out on board of a ship, or in any place where the fhip fever was: I have done it in the meafles fuccefsfully, and I can fee no reason why I ought not to do it in the fmall I.12 pox,

* See Table VII. in our observations.

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pox, fhould they happen where the ship fever is; and as early as in any other cafe of the fever. To prefcribe bark in the fecondary fever of the fmall pox is common among phyficians. I grant that, you fay, and add, unlefs you allow that the general received qualities of bark before mentioned render it an improper medicine in the beginning of a fhip fever, and altogether inferior to the antimonial and camphire treatment-which, indeed, both your practice and experience I fee contradict-I drop the argument-And I conclude by telling you, that you had better drop it; for I never will, in deference to any author dead or living, facrifice the fruits of experience dearly purchased for the benefit of mankind, and often at the rifk of my own life, by admitting for truth, what is only founded in erroneous opinion.

Befides the medicines already mentioned, I fometimes thought it neceffary to add from ten to fifteen grains of cort. eleuther. pulv. to every dofe of the bark; or a decoction of two drachms of rad. ferp. Virg. in fimple water, to two ounces of the bark. But when, and in what proportion other medicines are to be joined with it, the patient's fituation, and the judgment of the practioner must regulate.

Further: young practitioners must neither rest fatisfied, nor conclude that they have done their

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their duty, because they have prescribed medicine. They should be certain that they are properly administered with a due proportion of drink; and be informed where incidental fymptoms occur, that if violent, they may endeavour to relieve them immediately. If they are inattentive to their patients, their affiftants will probably be more fo, and those who attend the , fick will affuredly be fo. When their patients want diet, they fhould order the most fuitable, that circumftances afford, in fmall quantities, and often. Of all cordials, from long experience, I prefer and recommend wine : other remedies are not more inferior to bark, than all the class of cordials are to wine. It is often neceffary to administer it throughout the fever, and when the fick arrive at a convalescent state, if it is judicioufly given as part of their diet, it will be found the beft of all corroborants and antifcorbutics.

Notwithstanding the fuperior virtues of bark in curing the ship fever, we must forwarn young practitioners against forming an expectation that it will either prove infallible, or will cure their patients in as short time as it does the tertian of hot climates, more especially should the patients have been ill several days before they complain. If they imagine a few doses will cure them, they will probably add to the number who unjustly report ' that the bark failed them.'—I cannot, even

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even take it upon me to fay what number of days it may be neceffary to give it:—that will ever depend on the degree of virulence of infection, the climate and feafon, the age and conflitution of the patient, and other circumftances; —they muft therefore continue to administer it until their patients are cured; paying more regard to the effects, than to the number of dofes they give.

In a word, though the defeription of the fever which we have laid down, is a faithful copy of nature, we muft confeis that it is not in the power of man to lay down one that would be found applicable to every cafe that may occur The fame is to be underflood refpecting the administration of bark : for though that medicine will most probably cure all of them, the manner of preferibing it must be varied according to circumftances. Such variety there is in human nature, and under fo great a diversity of circumftances does it exist.

I might infert hundreds of cafes of the fhip fever, and the method in which they were managed; yet the young practitioner might never meet with one in his own practice exactly fimilar to one of them, or that would require the fame proportion of medicines. Like the patients themfelves, though all of the fame species, how feldom do we see any two alike in features, or eat and drink the same quantity. Practitioners must must therefore be mindful that we have only, after the manner of fome painters, laid the outlines of the piece or figure, before them, the finishing must be left to their own judgement and skill; and with these, to do it with tolerable fatisfaction to themselves, if I mistake not, they must unite their utmost attention.

U herr præferipfi. PM. he had a flight belly-

5. He raved again in the night, the tongue was brownill, very foul, and rather theirelled,

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CASES which terminated fatally.

ribiosta C A S E I.

THO. Wakeland, a marine, aged about 25, of a thin habit, and inclined to drink, complained on the evening of the 25th of April, 1780, of having been feized with giddinefs, and alternate chills and heats; laffitude and debility. Emet. ftatim, ac fudorific. h. f. dedi, and allowed him fage tea with nitre, to drink throughout the night.

2. He had no remiffion this morning, and was coftive. I ordered the common purging draught for him, and the bark twice in the afternoon.

3. He

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3. He had a flight remiffion after perspiring in the night. Cort. 3i. secunda quaque hora præscripsi, ac potionem ad libitum.

4. He complained of dyfpnœa, pain at the præcordia, and cough at times, after having a very bad night from raving; the pulfe was quick and fmall, and the fkin moderately cool.— Ut heri præfcripfi. PM. he had a flight bellyach.

5. He raved again in the night; the tongue was brownifh, very foul, and rather fhrivelled, the fkin was cool, and the pulfe fmaller and quicker than natural; the countenance was much difeafed, but he thought himfelf better.— Corticem ut 3tio cepit, et vini pauxillum in potione.

6. The cough and pain about the præcordia were more urgent, and the debility was greater this morning. Ut heri præfcripfi, et præcordis tinct. cantharid. applicand. PM. fal. fuc. gr.v. atq; corticem ut heri adhibui.

7. A remiffion after a moderate perfpiration. Medicinas fuas ut heri cepit. PM. exacerbation. Sexta hora fal. fuccin. gr.ix. atq; corticem deglutiit; epithem. utitur, et clyfma injeci.

8. He had a remiffion, but he put out his tongue with much difficulty, as was the cafe with him for fome days paft, though it was now much cleaner. He had two copious ftools with the clyfter laft night; the pulfe and fkin were in the fame fame state as on the 4th day. Præscripsi corticem, terija quaque hora, et vinum ut 5to die.

9. He was difturbed in his fleep with wandering; in the morning he thought himfelf better, but could not put his tongue out until his mouth was moiftened, it was fo dry and rough; the pulfe was much firmer, and the fkin was now hot and dry. Ut heri præscripsi, et sal. ammon. crud. gr. v. atq; cort. PM. a moft violent exacerbation was brought on from wine being given him by his meffmates. He now laid hold of his tongue, and pulled it out of the mouth, when he was asked to shew it; the dyspncea was extreme, during which the thorax feemed to be pulled upwards and downwards with vehemence, as well as the trachæa arteria, which at the fame time was much projected at every respiration ; the countenance was dejected, the fkin very hot, and quite dry; the pulle rapid, the face covered with fweat, and he was speechless at times. Veficat. præcordiis, ubi epithem cantharid. utitur, fuit admotum, et tart. emet. grß. ut visum, atq; tinat. thebaic. gut. xx. 10ma hora dedi.

10. I perceived a degree of rattling in the throat laft night; he had two loofe ftools from the tartar emetic; at eight this morning he had a remiffion, and complained of the blifter. PM. he rambled conftantly. Cort. ut heri, atq; vinum ut vifum dedi. 11. The pulfe was firmer and more regular, in other refpects he continued as yefterday. --Ut heri adhuc præscripfi. PM. a fevere exacerbation returned, refpiration was extremely laborious; the abdomen more agitated than the thorax, and there was the fame appearance about the larynx as on the 9th, the rattling more perceptible, and the lower extremities cold. Tinct. theb. gut. xx. decima hora pm.

12. He feemed to breathe with more eafe, though with a difagreeable noife; the countenance had the hippocratic appearance. Medic. ut heri cepit. PM. uneafinefs about the abdomen, and the lower extremities continued cold; the clyfter procured him one copious ftool. Enem. emollien. injeci; et tart. emet. gr ß. dedi.

13. This morning the patient provoked vomiting by putting his fingers down his throat and pulling out his tongue, when no perfon was in fight, and he afterwards picked his teeth :—I fufpected he had worms. 4 pm. the upper extremities became cold, and at 11 he died.

In this cafe, no man can with juffice fay that the bark failed; for until the afternoon of the 9th, when wine was imprudently given him, there was every appearance that he fhould do well, at leaft there was no bad appearance about him. I therefore forupled not to affert at the time, that he was as much killed by the wine,

as

as if he had been fhot; and I am firmly of that opinion. Another patient got wine from his mefsmates at the fame time, and narrowly efcaped with his life.

CASE II. Ifaac Kidd, a feaman, aged about 58, of a bad conftitution, complained on the 17th of May, of the general fymptoms of fever, (as I was told, for I did not fee him) and took an emetic, and the purging draught.

2. He was greatly dejected when I faw him, and complained of debility and laffitude. Cort. 3i. quater in die, et anodyn. h. f. præferipfi.

3. He complained as before; cort. tertia quaque hora dedi.

4. I was told there was no alteration about him. Cort. ut heri fuit præscripta. PM. he became worse, as I was informed.

5. He was thought to be much the fame. Medicin. ut heri cepit. He walked about in the afternoon, and about midnight (as I was informed afterwards) he became fpeechlefs and very reftlefs. Nothing more was done for him.

6. He died at three in the morning.

Bad weather prevented me from feeing this man more than twice; and that was on the mornings of the 2d and 3d days only. I therefore cannot draw any inference from this cafe, CASE III. Edward Norman, a feaman, was feized in the afternoon of the 27th of May, with the ufual fymptoms of the ship fever. I ordered the emetic and purging draught together, and the sudorific at bed-time.

2. There was a remission of the symptoms. Cort. quater in die præscripsi.

3. An exacerbation, I was told, came on laft evening, and went off in the night. Cortex fuit ter in die præscripta. PM. an exacerbation returned with rambling.

4. He paffed the night ill from inquietude, rambling, head-ach, pain about the thorax and difficult refpiration. AM. a remiffion; at 6 pm. the remiffion continued.—His nofe bled a few drops. Cort. fecunda quaq; hora dedi. 8 am. veficat. inter fcap. admov.—I went alhore.

5. I was informed that about eight last night the exacerbation returned with great dyspnœa, and rambling, and that he died about five in the morning.

I only faw this man on the 4th day of his illnefs; befides, the fhip was at Spithead, and bun, boat women brought liquor and ftrong beer on board, which their meffmates, efpecially when drunk, always give to the fick,—and as the two laft cafes almost certainly fell under this predicament, I am not of opinion that the bark had fair play in any of them.

CASE

CASE IV. James Gray, of a very easy temper, of a lax fibre, and subject to hæmorrhage from the nose. complained on the 29th of May, of the usual symptoms of fever, as I was told. Emet. et sudorif. cepit.

2. A perfect remiffion; the vomit purged him. Corticem bis in die præscripsi.

3. He continued to recover. Cort. ter hodie fuit præscripta.

4. He recovered his strength slowly. Cort. quater dedi.

5. He relapsed. Corticem secunda quaque hora, et vesicat. inter scapulas præscripsi.

6. He complained much of inquietude, heat, and thirft. Cort. ut heri cepit. PM. a violent hæmorrhage from the left noftril reduced him to extreme weaknefs; calling upon him accidentally, I found, as I judged, a pound weightof blood in the bucket. Cort 3i. alum. com. gr. x. aq. fimp. $\overline{3}$ ij. fiat hauft. fingulis horis repetend.—et vin. cochlear. i. ut vifum. fumat. The fecond dofe of the medicine entirely ftopped the hæmorrhage; dein. alum. fuit omiffum.

7. Debility and faintnefs with cough at times. Ut beri, fine alumine, præscripfi. PM. a little hæmorrhage. Alumen ut heri cepit; ac vini cochleare ut visum.

8. Great

8. Great thirst, with a dry brown tongue, diftreffed him; a bloody serum oozed from the nostril. Corticem et vinum ut heri dedi.

9. Extreme debility, catchings, or convulfive twitches, an unnatural refpiration, urgent cough, and fwallowing what he expectorates; and fordes about the mouth. Medicin. ut heri, fal. fuccin. et ammoniac. gr. iv. fecunda quaque hora cepit.

10. About midnight a violent exacerbation came on with dyfpnæa and oppreffion about the præcordia. Medicin. ut heri, et veficat. fcrobic: cordis admovi. PM. raving, inquietude and the cough were diftreffing; when he was afked to put out his tongue, he pulled it out of the mouth, and downwards; he was alfo coftive. Enema injeci.

11. He had a flool from the clyfter, and the tongue was clean, though the teeth were covered with fordes; he raved at times through the night, and was defirous to get out of bed, but complained only of weaknefs; there was a convultive motion of the lower lip, and the voice was altered. Ut heri; et pm. rad. ferp. Virg. decoct. dedi, atque cortic. omiffo vino.

12. He was worfe; the pulfe was quick and weaker, and his eyes were generally fhut. Medicinas adhuc cepit. PM. fal. fuccin. gr. x. quarta quarta quaq; hora; aliter ut nona præscripsi, et enema fuit repetitum.

13. Tremors increased, and he became speechless at times, and coughed rather less. Cort. zi. fal. animon. cr. gr. viii. secunda quaque hora, atq; vin. pauxillum ut visum præscripsi; vesic. femoribus internis admovi.

14. His appearance and fymptoms varied.— AM. the countenance was more lively, but the tremors, or rather universal paralysis, with raving and inquietude continued. Ut heri, atque rad. ferp. virg. decost. PM. the paralysis abated : a subfultus tendinum was observed through the day; and he voided an uncommonly large and healthy-like stool.

15. He had an exacerbation of heat, and inquietude the first part of the night, accompanied with a quick, full pulse, and towards morning a remission. At noon the paralysis returned with a very difeased countenance, and he sweated about an hour. PM. the paralysis remitted: 6 AM. tart. emet. gr . atq; decima hora am. iterum, medicinas ut heri cepit.

16. He paffed the night ill from inquietude, paralyfis, and other fymptoms of death. Ut heri decima hora præscripfi. PM. rigidity and continual motion of the limbs, with fweat, chiefly on the forehead.

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17. About eleven laft night a profule fweat broke out, which lafted only a fhort time; but he continued in a flate of perfpiration for feveral hours. AM. the countenance was tending to the hippocratic, and there was a conflant motion of the mouth as if he had been tafting fomething; the paralyfis was elfewhere fcarcely perceptible; the fkin was moderately cool and foft, and the pulfe was firmer and more regular than for many days paft.——PM. he was extremely weak, and the tongue very fore, tho' he continued better. Medicinas quarta quaque hora, et vin. pauxillim ut vifum cepit.

18. About 8 last night frequent catchings, ftartings, and subsultus tendinum came on; the face was covered with profuse sweat, the pulse was very weak and irregular, and twice he shewed a disposition to get out of bed, by putting his legs and arms out; at other times he lay on his back, with his eyes generally shut. His skin was moist and soft. AM. the countenance looked better, though the eyes were shut. PM. he was distressed with a teazing cough, and he was costive. Medicinas quas 15to die 10ma hora am. præscripsi, nunc quarta quaque hora cepit, et diæta maxime idonea. PM. enema emolliens fuit injectum.

19. Between twelve and four in the night he lay quiet; before and afterwards, he was, from inquietude, with difficulty kept in bed and at 8 am. 8 am. he died. Query—Did not this man's death proceed from the hæmorrhage on the 6th? I have not a doubt of it.

CASE V. George Hogg, the fhip's barber, much addicted to tipling, after drooping a month, principally with cough and various pains, complained on the evening of the 7th of June, of the general fymptoms of fever, and a cough. Emetic. et fudorific. dedi.

2. He perceived no alteration; the fymptoms were not violent.—Sal. cath. amar. Zi. fumat. et pm. corticem Peruv.

3. He complained of thirst and universal forenefs.—Cort. quater in die fumat.

4. Debility, cough, and pain about the thorax, attended with anxiety, harraffed him; the fkin and pulfe hitherto were very little hotter or quicker than natural. Cort. quater atque tart. emet. gr[‡]. cepit.

5. He had a remiffion. Ut 3tia præscripfi.

6. He continued better after a tolerable night's reft. Corticem ut heri dedi.

7. He was difturbed in the night with frightful dreams; the countenance always feemed a little flufhed; the pulse was quick, and the fkin

N n hotter

hotter than natural, and the tongue had a boiled-like appearance. Cort. fecunda quaq; hora præicripfi.

9. He complained only as he did yesterday, and of thirst. Cort. atque rad. serp. Virg. decoctum ut heri deglutivit.

10. He refted ill from inquietude and wandering dreams; the cheeks rather more flushed; he feemed very anxious, but complained of debility only. Ut heri præscripsi.

11. He had a tolerable night; there was no alteration, however, and he did not take his medicine:—he was costive. Sal. cath. am. 3ß. atque cort. ut heri fumpfit.

12. He was reftlefs about the middle of the night, and at other times dofed infenfibly; debility was his only complaint; he had no appetite fince he was taken ill. Ut heri, fine fal. cath.

13. A remiffion fucceeded a profuse fweat, in the morning; there was an exacerbation pm. Corticem adhuc cepit, et vini paux. ut visum.

24. He perspired twice in the night, and started once out of his sleep in a fright, but there there was a remiffion in the morning.-Ut heri præscripsi.

15. He had a tolerable good night, was generally in a moderate state of perspiration, and was sensibly stronger. Corticem quarta quaque hora atq; fal. ammon. cr. gr. v. dedi :---aliter ut heri præscripsi.

16. An exacerbation with flufhed countenance, the pomegranate appearance of the tongue, and defpondency came on ;-but I was informed that he had all along faid that he would not recover. He had no ftool yefterday.-Ut nono, atque vinum ut vifum præfcripfi. Enema com. fuit inject. et veficat. inter fcapulas admotum. PM. the blifter pained him, and he had a flight remiffion, but in the evening an exacerbation returned.

17. He flept, and perspired moderately in the night, which brought on a remission.— Ut heri, unaquaque hora medicinas dedi, atque vinum. PM. he complained of a pain about the left ilium, which was accompanied with a most profuse diarrhœa, that harrassed and weakened him exceedingly. I perceived tremors on him at times. Anodyn. ut visum dedi.

18. There was no heat or quickness of the pulse; on the contrary, the skin was moist, and the tremors less perceptible after a good night. —He wandered a little at times, and was N n 2 so fo weak that he could not put his tongue out.— Medic. ut heri, hodie; atq; vinum et opium ut vifum, præfcripfi. PM. there was an exacerbation of the tremors. I obferved a hiccough at times; he again complained of the pain of the ilium, and the tongue was enlarged.

19. He refted tolerably, and the diarrhœa, which had the bark appearance, was abated; but the tremors and hiccough were diftreffing, as was a fubfultus tendinum. I omitted his medicines, and allowed him milk, and wine frequently. He reached at times with the cough, (for it continued all along, more or lefs) and threw up a clear watery fluff. I also injected the following clyfter :—an ounce of portable foup diffolved in ten ounces of boiling water, to which half an ounce of bark and one grain of opium were added, at ten in the morning and fix in the afternoon. PM. the pulfe was tremulous at times, but he thought himfelf better.

20. The hiccough frequently harraffed him greatly; fubinde ol. cinnam. gut. i. cum facch. alb. fruftulo cepit; and he fpit up fometimes a bloody and extremely vifcid phlegm through the night, and had a ftool; he became ftronger, the pulfe was firmer, and he put his tongue out. Ut heri præfcripfi.—PM. the hiccough, fubfultus, cough, and reaching at times times became fatiguing, the ftrength failed, and the pulse fluttered.

21. The complaints continued through the night; he never brought the milk up when he reached. Ut heri præscripsi; sed primo enema emolliens (aq. simp. Zx. sacchar. iv. axung. Zij. siat enema) injiciendum. In the forenoon his face was covered with a greasy shining moisture and the countenance became hippocratic. Universal paralysis, and at two pm. he died.

CASE VI. John Blair was seized the 27th of June in the evening; he complained of the general fymptoms of fever, of which he was so much relieved by a vomit and fudorific, that he thought himself well, and did his duty.

On the evening of the 2d of July, however, he returned, having the head-ach, great pain about the præcordia, extreme depreffion, a very difeafed countenance, and total proftration of ftrength; he informed me that he had been feized the preceding evening with fhivering, fevere head-ach, and the ufual fymptoms of fever. Statim ut 27mo ult. deinde corticem fecunda quaque hora per noctem præscripsi.

2. I found hardly any alteration.—Corticem adhuc cepit, atque opium ut vifum. PM. he had a very flight remiffion.

3. He was diffreffed with diarrhœa, griping, extreme giddinefs, and debility and the countenance feemedfeemed bloated; the pulfe was very moderate, and the fkin cool. At 4 pm. an exacerbation came on :--corticem et opium ut heri, atq; vin. ut vifum præfcripfi.

4. A remiffion of all the complaints excepting the giddiness and prostration of strength and spirits; he coughed at times, which brought on pain about the præcordia, and the tongue was brown and rough. PM. an exacerbation with a convuisive catching, hiccough, and a dejected countenance. Medicinas, fine opio, ut heri, atque vinum libere dedi; et vesicat. præcordiis admovi.

5. Scarce any alteration, only the pulle was very weak and low. PM. the pulle altered varioufly in the courfe of the day; inordinate craving for water to drink, and to go afhore, though he feldom fpoke; the fkin was hot at one time, and the tunica albuginea was yellowifh. Ut heri; ac tinct. cort. Huxham. 3 fs. præfcripfi; but it did not agree with him :--10 pm. fal. fuccin. gr. ix. cepit.

6. He was comatofe, and feldom spoke, and tho' more and more exhausted, thought himself better; and the pulse seemed firmer and more regular. PM. involuntary discharges of urine and fæces: the discharge from the blister was of a dark coloured fanies, and the blistered part had

had the fame appearance; he pulled at the bedcloaths, holding them to look at, and throwing his legs out of bed. Medic. ut heri, et fal. fuccin. gr. xii. decima hora pm. cepit.

7. He died at eight in the morning.

His meffmate informed me that he was never well from the first attack on the 27th of June, and on the 2d of July he complained again. A fevere head-ach was his chief difease at that time. I understood further, that he had several old venereal symptoms.

This cafe was evidently desperate from the beginning.

and to loost sporting

CHAP. VI.

CASES to illustrate the Management of the FEVER.

A S the following cafes are intended to illuftrate the different heads under which we have reduced the management of the Ship Fever, it is not to be expected that the order, as to time when they occurred, will be regarded.

I. Vomiting.

1. Vomiting. — We have already repeatedly observed, that if vomits be administered when the first symptoms of contagion are perceived, or during the cold, or the shivering fit of the first paroxysm, they frequently become preventives of the fever.

CASE VII. Robert Dean, aged about 20 years, came lately from the Conquestadore guardship at the Nore, and complained on the 10th of September, 1779, of shivering, sickness at stomach, head ach, and universal pains, especially of the loins. A vomit was immediately preferibed, which operated well, and gave him a copious stool or two. The symptoms were carried off, he slept well, and next day he only felt himfelf a little weaker than usual. I gave him two doses of the bark, with fisteen drops of elixir of vitriol, and on the day following he returned to his duty, quite well.

CASE VIII. Mr. Knight, about 32 years of age, a temperate man, complained on the 19th of September, 1779, of head-ach, ficknefs at ftomach, and thirst; the pulse was rather quicker, and the skin hotter than natural; he had not perceived any chilness or shivering to precede these symptoms. I gave him an emetic, and next day he was perfectly well. CASE IX. Chriftopher Forfter, aged about 19, complained on the 2d of October, 1779, of alternate chills and heats, head-ach, univerfal pains and thirft. A vomit was immediately prefcribed; the third he found a little weaknefs, took the bark twice, and returned the 4th to his duty.

CASE X. John Ofborne, an Eaft-India molattoe, aged about 18, was feized the 16th of Oct. 1779 with all the general fymptoms of the fhip fever, I prefcribed the vomit immediately; the next day he was fo well, that I ordered a light diet only for him; and on the 18th he returned to duty.

Befides thefe I could infert many other cafes to prove the great importance of giving vomits on the first attack of the fever.

2. Sudorifics.—When the vomit did not entirely carry off the fymptoms, the patients have been frequently cured by a fudorific given afterwards.

CASE XII. Joseph Clun, aged about 28, was seized on the 18th of October, 1776, with the general symptoms of the fever; and not being entirely freed from his complaints by vomit, which he took immediately, I ordered O o him him a fudorific :---that day he complained of a flight debility only. He took fifteen grains of cort. eleuther. twice, and returned to his duty on the 20th.

CASE XII. James Thacker, aged about 23, was feized the 23d of November, with the general fymptoms of fever; and for the fame reafon as in the preceding cafe, a fudorific was preferibed at bed-time. On the 24th, being free of the fymptoms, but weak, I gave him a few dofes of bark, and next day he returned to his duty.

3. Calbartics — Although it does not occur to me that I ever faw a patient cured of the fever by cathartics alone, or that I ever faw them given before vomits, yet I have often found it neceffary to preferibe them after both the vomit and fudorifies to perfect the cure. We shall only infert two or three cales.

CASE XIII. Mr. Mitchel, aged about 22, a ftrong, healthy young man, having on the 5th of October, 1779, been on duty on board the Dunkirk guardfhip, where the fhip fever was very virulent, the day following he complained of a fever; the pulfe was quick, and the fkin hot and dry; his head-ached, and he was much harraffed with a griping and purging. I ordered him

him a vomit and diluting drinks. On the 7th he was greatly relieved, after the vomit, which operated likewife by ftool and perfpiration, but the dyfenteric fymptoms were not gone; he therefore took a cathartic, and returned on the 8th to his duty.

CASE XIV. Richard Sullivan, about 25 years of age, complained the 4th of November, 1779, of fhivering, head-ach, and purging. An emetic was administered; and next day as the purging was not quite gone off, he took a gentle cathartic, and returned to duty on the 6th.

CASE XV. John Cummings, aged about 24, was feized on the 9th of November, 1779, with alternate chills and heats, head-ach, and univerfal pains. I immediately gave him a vomit, and a fudorific at bed-time. The 10th, the head-ach and univerfal pain, though alleviated, were yet troublefome; I prefcribed a cathartic, and next day he found himfelf perfectly well.

4. Of Bliffers.--We might infert many cafes to fhow the great benefit derived from an early application of them; but as repetitions are tirefome, we fhall only mention four.

CASE

CASE XVI. Michael Irving complained on the evening of the 5th of February, 1780, of the general fymptoms of the fever, for which he took a vomit, and a fudorific at bed-time. There was a remiffion next morning, but in the afternoon an exacerbation, especially of the headach:—Matutino cath, mite cepit, et pm. vesicat. inter scapulas admovi.

On the 7th he was perfectly free of complaints, except from the pain of the blifter, and he returned to duty as foon as his back was well:

CASE XVII. John Putnam, aged about 37, was feized with the general fymptoms of the fever on the evening of the 23d of May. A vomit and fudorific were prefcribed, and next day the cathartic, and at night the fudorific was repeated. On the morning of the 25th there was no remiffion; the head-ach, giddinefs, ficknefs at ftomach, and wandering pains, diffreffed him greatly. I ordered him the bark every three hours, and a blifter to be applied between his shoulders. He passed the night ill from wandering and inquietude; but there was a remiffion of all the fymptoms in the morning, and no return of them afterwards. The bark was continued, though feldomer, until he returned to his duty.

CASE XVIII. James Farrel, a marine, aged about 26, complained on the 20th of June, 1780, of the ufual fymptoms of fever, for which he took the tart. emet. and falts together, and the fudorific in the evening. The 21ft the headach and proftration of ftrength and fpirits continued. I applied a blifter between the fhoulders, and ordered him the bark. On the 22d he was free of every complaint but debility, and had no return of the fymptoms.

The bark was preferibed until his back was healed.

CASE XIX. John Howe, about 25 years of age, was feized on the 27th, but did not complain until the morning of the 28th of June, 1780, of the ufual fymptoms of fever, and immediately took the emetic and cathartic together; and pm. I ordered him the bark. On the 29th there was no remiffion, though he had been vomited, purged and fweated by his medicines, and the countenance was much difeafed; the bark was continued four times in the day, and a blifter applied between his fhoulders. On the 30th he complained of the blifter only, and never had any return of the fever, but he took the bark twice or thrice until his back healed.

5. Of Bark.—As upon this we not only place our chief dependence for the cure, but are to prove by the clearest negative evidence, how fatal fatal the precept—not to administer bark early in fevers—has been to mankind, we muft neceffarily be more particular on this, than we have been on any of the former heads. We shall, therefore, first show how innocent and effectual it is, when given in the beginning of the ship fever, without either an emetic or cathartic having been prescribed before or with it. We shall, secondly, infert a few cases, out of hundreds, which we have successfully managed by administering bark early and liberally. Thirdly, we shall state the cases which ended fatally :— And lastly, we shall conclude with a few inferences.

First we are to show how innocent and effectual the bark is when given in the beginning of the ship fever, without either an emetic or a cathartic having been taken before or with it.

CASE XX. Mr. R. aged about 38, of a healthy, the' delicate conflitution, temperate in his living, and well accuftomed to different climates, without being affected by them, arrived at Gibraltar on the 19th of Jan. 1780, in perfect health; but no fooner did the wind veer round to the Faftward, than he was feized with the fymptoms of fever; and those were always increated when it blew a Levanter.* As long as this gentle-

* When the wind blows ftrong from the Eaftward.

gentleman staid there, he was regularly affected by those winds, and constantly relieved by a liberal use of the bark, without giving any medicine previous to it: sometimes about a fixth or a fourth of a grain of emetic tartar were joined with it. He varied his diet and living as solution as possible.

On the toth of April, the wind then NW, and Wefterly, blowing flrong at noon, (having for a confiderable time before been much expofed to infection among the prifoners in the hofpital where his duty led him) he felt the pains coming on about eight in the evening, which he had hitherto been fubject to, only during the approach and continuance of the eafterly winds; and expecting the change of weather, he continued on his duty, and took a little tincture of bark twice.

On the 11th, the pains were more fevere and wandering; at one moment he had the fenfation of being extremely fatigued, and the next he was fo eafy that he forgot them; fometimes there was an unufual heat in the fkin; but the pulfe was very little affected. He took the tincture of bark as he had done yefterday; went with languor about his duty, and imprudently walked and ftood a good deal in the fun; and afterwards went off in a boat during the ftrength of the breeze. He could eat little dinner from

the

the fatigue, and paffed the night indifferently, the pains being increased.

12. Finding himfelf worfe, the pulfe rather weaker than natural, and irregular, together with a flight nausea, he took tinct. cort. 3 B. tart. emet. gri, thrice in the afternoon. However, perceiving a chilnefs come on at ten in the evening, he began with the bark in fubstance. Pulv. cort. Peruv. Biv. tinct. cort. 3ij. aq. vel potione thæ 3ij. statim cepit. At 11 he was not colder, and repeated his medicine. He was fo diffreffed with fever, feverity of pains, and headach, that he lay down in bed at noon; foon after, he repeated his draught with fal. fuccin. gr. viij. and drank freely of warm tamarind beverage. The heat was vehement, the pulle was rapid, and the pain darted violently from one place to another during the hot fit which was fucceeded by a profuse fweat, and that gradually brought on a remiffion about four pm. Notwithftanding the feverity of the paroxyfm, neither his reafon nor fpirits were the leaft affected, but he was aftonished to feel himfelf fo extremely weak, and the head fo greatly difeafed, though not pained when he got out of bed at four. He repeated his bark thrice, and took x. grains more of fal. fuccin. when he went to-bed at eight o'clock, having first a copious stool.

13. The remiffion was more diftinct, though the head feemed greatly difturbed, after he had enjoyed enjoyed a tranquil and very pleafing night, and though extremely weak, he went about his duty on board, taking his bark every two hours.

14. He had a good night, continued his bark, and with the first dose took an ounce of falts, and two drams of crem. tart.—He persisted in taking his bark, and never had any return of the fever while he lay at Gibraltar, but did not recover his thrength until he left it on the 20th; and ever fince he has enjoyed a good state of health. At bed-time on the 12th, and on the evening of the 13th, he took ten grains of fal. succin. without perceiving any effect from it.

CASE XXI. Mr. Blake, aged about 22 years of age, of a ftout make, and robult conflicution, was feized on the 13th of June, about noon, with a fevere paroxylm of fever, which terminated in a remiffion about fix pm. by fweat. It was then he complained; the head-ach, univerfal pains, efpecially lumbago and debility, chiefly diffreffed him. I ordered him cort. Peruv. p. 3 j. immediately, and to be repeated before he went to bed.

On the 14th in the morning he was much relieved, and in the courfe of the day took an ounce of the bark.—The day following he returned to his duty, and never had a relapfe.

Secondly,

CASES.

Secondly, we are to infert a few cafes, out of hundreds, which we have fuccefsfully managed by administering bark early in the fever, and liberally.

CASE XXII. George Alexander, aged about thirty-fix, fomewhat flothful, was feized on the 25th of October, 1779, with a great proftration of strength and spirits-or faintness, as he expressed it. On the 26th, about 11 in the morning, he was brought to me, immediately after he had recovered out of a fyncope, into which he had fallen fome time before. His complaints were extreme weaknefs and laffitude, and confusion of the head; while the countenance was greatly difeafed, the pulfe languid, and fkin cold; a vomit was ordered, and two drams of bark to be taken an hour after the vomiting, and to be repeated thrice in the afternoon. In the evening there was an exacerbation of heat and thirft.

27. The fever was very moderate in the morning, and he complained, but little, of his head, and univerfal forenefs, after having had a good night. I ordered his bark to be continued.

28. He telt himfelf eafy, though weak, and had very little fever or thirft on him. An ounce of bark was again prefcribed, and half an allowance[®] of wine. He afterwards continued to take

• 'Tis about feven ounces by meafure.

CASES,

take his wine, and half an ounce of bark daily, until he returned to his duty on the 1ft of Nov.

CASE XXIII. Wm Hogarth, aged about 18, of a lax fibre, on the 14th of Jan. 1780, was feized with head ach at one am. which abated again, and about 10 am. he fell into a fyncope. As foon as he was recovered out of it, by the ufe of fp. C.C. he took a vomit.

15. He paffed an indifferent night, complained of great pain acrofs the os frontis; the tongue was beginning to grow black, and the lips to be covered with fordes; the pulfe was very quick, and the fkin and mufcles were exceeding hot, and preternaturally foft and relaxed. In the morning I ordered the ufual cathartic, as he had no ftool by the vomit. At 11 I was informed he had again fallen into a fyncope. The bark was prefcribed every two hours.

16. He complained of debility and a little giddinels, and was ordered to take his bark every three hours. PM. he was at his quarters during the action with the Spanish fleet, and had no return of the fever, nor took any more medicine.

CASE XXIV. Lieut. Saunders, aged about 31, of a hale conftitution, was feized, on the 26th of October, 1779, with heavinefs, laffitude, ftretching of the extremities, chillinefs, and a pain pain, with a little fwelling and hardnefs of the right groin. I proposed a vomit, which he declined taking; and at three pm. a severe shivering came on with head-ach, universal pains, efpecially lumbago. He now took a vomit; a hot fit, with an exacerbation of the symptoms, fucceeded; and at night he took five grains of fal. C.C. and half a grain of opium, in the form of a bolus.

27. He was fomewhat relieved by the vomit, but more by a free perfpiration through the night; the groin was much better; however, the head-ach continued, and he was coftive. In the morning he took the common purge of falts and cream of tartar, and in the afternoon two drams of the bark, twice, with a fpoonful of wine, in water.

28. He found himfelf recovering, after a good night; and the bark was repeated, four times, as he had taken it yefterday. He had no relapfe, and took his bark twice a-day for a few days, tho' he returned to his duty on the 30th.

CASE XXV. Wm Coates, about 22 years of age, of a thin habit, after drooping fome days, complained, on the 5th of November, 1779, am. of a fore throat; he fpoke through his nofe, and feemed to have much difficulty in fwallowing; the uvula and tonfils were much tumified, and the pulle was much quicker and weaker than natural, natural. The vomit was prefcribed, and in two hours after its operation, the cathartic. PM. a blifter was applied between his fhoulders, and a fudorific given him at bed-time, after using the pediluvium.

6. He was much relieved, but coffive; the cathartic was repeated in fmall dofes, until it operated. PM. he continued eafier, having perfpired all day. I ordered the bark to be given him twice in the night.

7. The pulle was firmer, but he complained of more pain in the left fide of the throat, and the tongue was foul. Cort. 3ij. quinquies in die dedi.

8. He paffed the night ill from the pain and an urgent cough; the pain now extended from the thyroid gland down to the flernum, and the pulfe was quick and fmall. PM. he complained of alternate chills and heats.—Corticem ut heri præfcripfl.

9. The pain remitted. PM. he had very irregular or uncertain fweats and remiffions thro' the day.—Corticem adhuc cepit, et gargarifmo fæpe utitur.

10, Exacerbation of the pain of the left fide, and cough. Cort. 3ij. quater fumat.

11. Remiffion, after having passed a good night. Sal. cath. amar. 3ß. capiat :-- aliter ut heri.

. 3. 1.10

12. He

He continued better, but the cough was teazing at times. Cort. 3i. ter capiat. The cough did not leave him until the 20th, and during that time he took the bark twice a-day, and an emollient linctus was prefcribed.

CASE XXVI. Win Crane complained on the 8th of Nov. 1779, of having been feized the day before with alternate chills and heats, and a fore throat; the tonfils and uvula were now much inflamed, and covered with an exudation of pus; the tongue was foul, and the pulfe was quick. Emetic. et cathartic. fimul ftatim dedi; et deinde cort. 3i. fecunda quaque hora cepit, et gargarifmo utitur.

9. He perfpired in the night, but the throat continued painful, and the pulfe was fmall and quick; the tongue looked as if it had been icalded. Cort. 3ij. quinquies in die, et gargarifmum præscripsi.

10. There was a remiffion of all the fymptoms. Ut heri medic, quater cepit.

11. He continued better. Cort. 3i. quater, et fal. cath. amar. 3 B. matutino adhibui.

12. 13. He took his medicines, and returned to duty on the 14th.

CASE XXVII. Barney Clare, on the 5th of Nov. 1779, was feized with, and complained of the generel fymptoms of fever. I ordered the emetic.

emetic. PM. a violent exacerbation came on with very acute pain in the lower part of the left fide of the thorax; the pulfe was quick, hard, and full, and the fkin very dry and hot. The vomit gave him feveral ftools, and he took a fudorific at going to-bed.

6. No remiffion in the morning, though he fweated profufely throughout the night; the tongue becoming black. Sal. cath. amar. 3 fl. cort. 3 i. mane dedi; posteaque cort. 3 ij. tertia quaque hora præscripsi.

7. Remiffion of the pain, but he complained of head-ach, fore throat, and hoarfenels, which were exafperated by a cough. An angry eruption broke out about the mouth; however the pulfe was firmer, and his fkin and tongue were moift.—Cort. zij. quinquies dedi.

8. His complaints gradually remitted, and he paffed a good night. Ut heri præscripfi. PM. an exacerbation came on, with acute pain of the fide and cough

9. About ten last night there was a remiffion, and he passed a good night : the eruption drying about the mouth. Cort. fexties in die capiat.

exacerbation came on. Cort. ut heri præscripfi,

The cough was urgent at times, but he had no return of the pain of his fide, or of fever, and he took his bark until the 15th, when he returned returned toduty, gradually diminishing the number of doses as was found proper.

CASE XXVIII. Mr. Boon, aged about 32, generally exposed to much fatigue, after drooping about eight days, was feized with acute pain in the left breast, which was always affected, he faid, when he was indisposed; and was feverer at fome times than at others, and with universal pains, heat and thirst, two days before he complained, which was on the 5th of March. A vomit was ordered, which besides operating gave him feveral stools; and the bark was adminiftered in the afternoon.

6. He refted ill from the feverity of pain at times through the night, and his tongue was foul. I prefcribed the bark every two hours: PM. an exacerbation of heat coming on with pain, he took a dofe of the bark, which he told me, (and fpoke it with pleafure) carried both off in ten minutes after.

7. He enjoyed a good night, and had no confiderable exacerbation afterwards. The bark was continued until he perfectly recovered ftrength on the 20th. This patient had the fever once before, and once fince, and always recovered by the fame management.

CASE XXIX. Jas. Morris complained on the 7th of May, 1780, of irregular chills and wandering

dering pains; the countenance was fallow, and bloated, and he feemed to breathe with fome difficulty.—Ipecac. gr. v. dedi, et pm. fal. cath. amar. Zi. et cort. Zij. bis dedi. He had a fetid fmell about him.

8. He passed the night ill from inquietude; head ach, and universal pains. Cort. 3i. secunda quaque hora dedi, et sal. cath. amar. 3ß. mane.

9. The fever remitted, but he complained of the other fymptoms, and of frequent cough. Ut heri præscripsi.

10. Exacerbation of pains, especially about the thorax, dyspnœa, an urgent cough, and expectorated with difficulty aviscid bloody phlegm, his breath was very fetid, and he had a disagreeable smell about him, and was always costive. Cort. ut heri atq; mann. Ziss.—vel sal. cath. Zi. et succ. lemon recen. Ziv. utitur. PM. the tongue began to put on the most diseased appearance 1 have seen so early in the fever.

11. Pain of the left fide affecting respiration, with an urgent cough, and no remission in other respects.—Vesicat. lateri admovi, aliter ut heri, atque vino.

This man, before he recovered, had feveral relapfes, and was at laft fcorbutic, before he returned quite well to his duty on the 28th of June.—He ufed a good deal of bark and lemon juice, and had alfo feveral blifters applied Q q during during that time: the difcharge from the firft was a yellow gelatinous fubftance.

CASE XXX. Mr. Dixon, aged 22, of a ftrong habit, and one of my mates, drooped for two days with chillinefs, forenefs and fullnefs about the throat, a lofs of appetite, and complained the evening of the 6th of July of fuch exquifite univerfal forenefs, that touching any part with his finger gave him pain; of laffitude, and of great depreffion; the tongue was whitifh, the pulfe was quicker, and fkin hotter than natural. He immediately took a vomit, and a fudorific when he went to bed.

7. The fever rather increased through the night, although he had sweated profusely, and there was no remission. A purging draught was ordered in the evening, and the bark to be taken in the morning, which he omitted. PM. there was no remission; the heat, thirst, and univerfal pains, with profuse sweating, were distress and he was costive. Pediluvio utitur.

8. No remiffion, though he had feveral ftools in the uight; the fweating ftill continued, and was profuse when he moved in bed. Cort. 3i. fecunda quaque hora atque vini pauxillum dedi. PM. he moaned, fighed, often vomited, and purged, was apprehensive of dying, but sweated lefs. Anod. h. f. et vesicat. inter fcap. admovi.

9. He

9. He paffed an indifferent night from a continuation of the fymptoms. AM. he craved fmall beer at one time, and milk at another ; there was a flight hæmorrhage from the right noftril. Cort. (10ma hora am. atque alum. gr. x.) ut heri, atque opij gr ß. vel gr. i. ut vifum præfcripfi. The difcharge from the blifter was a yellow ferum.

11. The remiffion of the fever was more diftinct, but he complained as ufual of all the other fymptoms. Cort.'atque opium et vinum, ut 900 præfcripfi, et crem. tart. gr. xv. PM. he was entirely free of fever, and a little blood, quite cold, came from the right noftril. He never had any return of the fever; however, he complained of the reaching, and of exacerbation of the pains for feveral days; therefore continued his medicines as on the 11th, only diminishing the number of doles gradually, and instead of opium, the last two or three days of his illnefs, I ordered him fp. C.C. gut. x. with every dole of his medicine, and more wine.

QZ

(300)

TABLEI

Shews the Number of Fever Patients on Board of the EDGAR, between July 1, 1779, and August 1, 1780;—the Number who died and the Proportion of Deaths,

Fever Patients.	Died.
475 Befides eight Prifoners who had the Fever on Board, and were not fent to the Hofpital.	6 But it is allowed, that the Bark failed in one Cafe on- ly.—One died by drinking wine.—Two I faw twice only while they were ill.— Hemorrhage neglected by the Attendants, occafioned the Death of one, and the other was almost dead be- fore he complained.

The Proportion of 6 Deaths in 475 Perfons, however, is 1 in 79 1-6.

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TABLE II.

Shews the Number of Fever Patients admitted into Gibraltar Hospital between the 19th of Jan. and the 20th of April, 1780, from his Majesty's Fleet, and of the Spanish Prisoners; the Number who died, and the Proportion of Deaths, under the Antimonial and Camphire Treatment.

	ts admitted from	Died (befides those who w feized with Fever at Hospital, and died)	the
30	570	57	

Proportion of Deaths is 1 in 10.

Prifoners.	Died (befides two in the launches, and two imme- diately after they had land- ed, when they were going over to Spain.
437	33
Proportion of L	Deaths is 1 in 13 8-33.

The method of treatment was with antimonials, camphire, and nitre.

TABLE III.

The different Difeafes, the Number of Patients of each Difeafe, the Number who were fent fick from, and the Number who died of each Difeafe, on Board of his Majefty's Ship Edgar, from June 1, to November 30, 1781; during which Time the faid Ship was chiefly employed at Sea on Channel Service, and was docked.

DISEASES.	June.	July.	Aug.	Sept.	Octob.	Nov.
Fever	22	12	7	14	13	29
Pleurify	4 Las	11	apage of	1.2	dr.	1
Pain of the Breaft	Carl and	12 - 1				1
Pain of the Side		2			1	
Dyfentery	3			I		
Belly-ach	-	I		5	I	1
Diarrhæa		I			1	
Reaching	1. 62	I				
Indigeftion	issin (I		I	3 3.6	
Obstruction of the Abdominal Vife.	170341 12 (199		I	Ling	in Park	
Scurvy	2		I		1	
Rheumatifm	2			2	I	2
Head-ach				1	3	3
The rest of the second second for	3	3	3	I	3	I
Cough	I	ei eda	The	I	Plop	
Sore Throat	2	3				1.1
Epilepfy	1		I			1.
Ophthalmia	3	110	1999 44 1	I	2	
Tooth-ach	1		r	I	2321	I
Nephritis		1			I	1

(303)

DISBASES.	June.	July.	Aug.	Sept.	08.	Nov.
Plethora			1			
Hæmorrhoides	2				.28243	in.
Eruption	i lost		1	3		I
Scald and an	1 -	I			1	Favor
Contufion	13	5	2	7	3	11
Concuffion of the Brain	1			1		Colors
Strain	3	2		1	3	I
Fracture				I	2 -11	
Excoriation	I		Ι.			1
White Swelling		1		-	in the	in the second
Wound	I		3	2	2	Rhead
Inflammation	1	12.		1	1	head
Difeased Testicle	1					Louoi
Foruncie	1	1	2		2	Saro
Abfces			1	1 to	1	intig 3
Fiftula in Ano-					simil	1
Cancered Lip	I				1	beits
Ulcer	I	I	2	2	I	2
Accident	1.00		1	1.1.	1100	agilt
No. of Patients.	62	38	25	46	39	59
No. of Deaths		-	1		1	ALL THE
No. of Patients fent to Hofpitals	4	15		1		29

TABLE III. CONTINUED.

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TABLE IV.

Continuation of the preceding TABLE, from DEC. 1781, until MAY, 1782.

DISEASES.	Dec.	Jan.	Feb.	March.	April.	May.
Fever	23	24	17	15	18	3
Peripneumony	2		3 1		(con :-	in O
Plearify		1	I	Fodd	o noille	1.00
Pain of the Breaft	I	4	I		in.	12.
Pain of the Side		11	2		3	Stents
Pain of the Stom.					1	(axe)
Dyfentery	1	1	I	1.3	abirni	10023
Belly-ach		1		1 82	1	and the
Rheumatifm	2		2	2		ac vi
Head-ach	. 1	1	1		2	I
Cough	4	1	1	I	6	S STREET
Sore Throat	3	2	I	3	0.00	on gela
Epilepfy		I			9	Stores.
Ophthalmia				C	Z	the of a l
Blindnefs	-		1.1	1	I Lest	Caro
Nephritis		1	1		1	Ulce
Suppref. of Urine				I	- 200	and the
Hemorrhoides	5	I	5	1.224	2	1044
Eruption	I	1	1	1	and a	and and
ftch	- 1		2	12	80	
Scald	3	2	IX	4	a Pat	2

(305)

Diseases.	Dec.] Jan.	Feb.	March.	April.	May.
Contufion	9	7	7	1	14	2
Strain	2 .	at the	1	4	I '	Near St
Fracture		1		1	and a plant	and St.
Wound	1	4	. 8	4	2	245
Inflammation	3	1-	2	1	1	
Ulcer		I	2	2	3	I
Drowned		-			1	Find
No. of Patients	53	51	47	52	139	9
No. of Deaths					I	
No. of Patients fent to Hofpirals		6	4	3	9	3

TABLEIV. CONTINUED.

Lina : will yild a lance of woll are a slow by boots if

Rr TABLE

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T A B L E V.

Shewing the Event of the particular Diseases.

Diseases.	Number.	Number fent to Hof- pitals.	Deaths on Board.
Fever	197	-H. C	33.***
Peripheumony	1	+14 - 1-5	Strain A.
Plearity	2	a starting office	Bendeute
Pain of the Breatt	7	aleres (al	- Innustit
Pein of the Side	6	And the sea	
Pain of the Stom.	I		
Dyfentery	2		asta.
Belly ach	9		teray or Q
Diarrhœa	- 2		
Reaching	1 1	a 23	0011210.002
Indigettion	2		diente in nie
Obstruction of the abdominal Vife.	I .		No. De Car
Seurvy	9	Land Asland	2
Rheomatifm	16	and the	9
Head-ach	17		2
Cough	15		5
Sore Throat	15		
Epilepíy	4	and the second	S. S. Server
Ophtha mia	9		
Blindnefs	1		1
Tooth ach	2	· & & .	
Nephritis	5	Starts gas	
Plethora	I		
Suppref. of Urine	1	Alternation 1	-

* Nineteen of those came from a cartel, a fickly ship; and another from the hospital, fick of the fever.

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Diseases.	Namber.	Number fent to Hof- - pirals.	Deaths on Board.
Hemotrhoides	- 5		
Eruptions	- 8		
ltch	95	a desta desta de	
Scald	13	-	125000
Contution	84	A series and	5
Concussion of Brai	I	and the second	1
Strain	18		The second second
Fracture	11F		1 2010
White Swelling	3		1
Excoriation	3		- Contraction
Wound	26 -		1
Inflammation	10		Pollog, Pollog
Difeafed Tefticle	1		
Furuacle	6	and the second	
Abicets	I		I have be placed
Fiftula in Ano	1 1		I
Cancered Lip	I	tella tella la	Inned
Ulcer	18		1.2
Accidents	1	1	petyfis 1
Drowned	I	I	- nortger
Whole Number	620*	2‡	76+

TABLE V. CONTINUED.

* Befides venereal patients (one of whom was fent to the hospital) and flight complaints.

‡ One, a boy, died of an accident, and the other fell overboard in bad weather.

+ Besides 19 of them being cartel men, several were sent twice for the same complaint.

Rr2

TABLF

TABLE VI.

The different Difeases, the Number of Patients of each Difease, which occurred on Board of his Majesty's Ship the Edgar, between July 1, 1778, and August 1, 1780.

Diseases.	July.	Aug.	Sept.	Octob.	Nov.	Dec.	Jan.	Feb.	March.	April.	May.	June.	July.	No. of Patient	Deaths	fent to H.	withFev.
Fever	1	5	29	59	61	36	28	30	46	49	35	4.0	56	475	6	28	28
Meáfles		-		3	4	2		5			-			5			
Eryfipelas					1		1	1			1			-0.5		1	44
Dyfentery	1	1	1		1	1		1	1	6	I	-		11		1	
Belly-ach		1	2	1	2	1	2		I	- 1	1			IJ		1	
Diarrhæa		2		1	I	14		3	1	-	2	2		5		2	2.2
Worms	120			3		1		t	1		1			1			1
Indigeftion				1	-	Grin	100	41	6				1.1.1	1	1	1	
Scurvy	1	6		2	38	3	1.7	2 C	8		16	3	12	61		2	
Rheumatifm	1		1	4	8	10	5		1	5	4	2		42	-	22	
Gout		1	1	-		1	1	2		_				1	1	. 1	1
Scrophula								3		1		1		3		2	1
Head-ach	1	1	1	16	2	1	1					0	NR	20		1.	11
Cough Sore Throat	1		3	11	1	9	2	2		I	-	2	1	31		6	
Sore Throat	1	1	-	1	-	11	1		-	-		I	-	15			+
Hemorrhage				1	in	1								1		1	1
Hemoptyfis			1									-		1	1252	1.8	
Confumption			1			1						1		La 1			-
Ear-ach	-					-	1		I		-	-		2			
Giddinefs		I	1			-	1	3.5				27.	I	26		19	
Epilepfy	-	1	I	1		-	2	1	I	1			1.12	6			2
Apoplexy							1			-			1	1		1	
Mania	1	-			1	-		1	1	32		12	1	1		I	
Ophthalmia	133				2	1	14	2		I	I	1	22	7 2	1.0	14	4
Blindnefs	100	2		1	1	1.00	Parts.	14.60	AL.	1.31	09	30	7 10			2	-
Nephritis		2-4-	1	I		-	1	1		2.37	1	17.	1	5	126	I	1
Hemorrhoides	123	12	:	100	22.2	-2.7	20	29	ITT.	123	-	1.0	-	1 1 1 1 1		-	12
Old Age						1	1	- 2.8	1928	12		12	24	2 2 1	303	1	-
Eruption	1		1	1	1	1	1	2	T	4	I			10		I	-

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TA	B	LE	VI.	CO	NTI	NU	ED.
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DISEASES.	July.	Auguft	Sept.	I Octob.	Nov.	Dec.	l] n	Feb.	March.	I April.	May.	I June.	July.	No. of Patient	Deaths	fentto H.	wirhFev.
Itch Scald		I	1	3	14	5	-	3	1		I I			23 13			
Strain Rupture	I	1	2	2	4	3	N N	3	2	2	2	1	3	25		12	
Contufion		6	10	15	7	4 9	6	14	13	4	8	3	6	101		2	
Diflocation Fracture	1	I	2		1	3		2	100	-			ī	11		5	
Excoriation Wound	1	1		5 2	SI	3	1 20	3	2	1	2		1	4 52	~ ~ ~	7	
Inflamination Foruncle		2	2	2	1	4	1 2	2	12	1		1	1	16		1	
Abfcefs Ulcer				1	23		3	16	3	1 4	2	1 2		9 29		3	
Accident			1		_		5	1.5	-	T			2	2	2		_
No. of Patients.	4	31	62	140	128	10	80	78	99	85	76	56	85	1032	NC 12	1	
No. of Deaths	-	-		-	2	-	-	-			3	3	2		10		
No. of Patients fent to Hofpitals	3	4	1	5	6	12	10	21	5	2	2	4			-	77	
No. of ditto fent for fevers	1		1		2	4		10	2	2	2	1					28

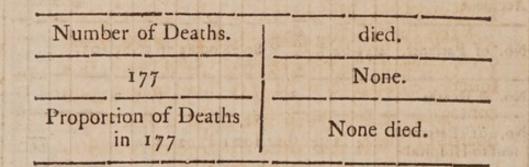
Of the 77 who were fent to the Hofpital, 11 were Spanish and Engglish prisoners, 5 were invalids, 5 were fent by survey, and 4 were convalescents.

Of the 28 fent with fevers, 11 were Spanish and English prisoners, and 4 were convalescents.

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TABLE VII.

Shows the Proportion of Deaths of Fever Patients on Board of his Majefty's Ship Edgar, from June 1, 1781, and May 7, 1782, the Day on which I was fuperfeded, exclusive of 19 men from a cartel, who were fent to the Hofpital as foon as poffible after they complained; and the Man-who came from the Hofpital ill, and was fent back the next Day, under Treatment of the Bark.



Of the 177, 13 were fent to hofpitals, but 4 of the 13 were fent when the fhip was in dock, becaufe they could not be conveniently taken care of, on board of the hulk; and of the remaining 9, most of them were fent when we were going to fea, as it would be judged imprudent to fail with the fick.

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(311) O O (311

LITT IS BOULDING

LIUSING CONTRACTOR

F ROM long experience, I hope I may be permitted to repeat, that I have never, in any one cafe of fhip fever, on board of the Edgar, difcovered petechiæ, though diligent fearch has been made for them. Could this proceed from any other caufe than the method of treatment with the bark ?

I can further fay, that in no fituation whatever, either from obfervation or enquiry, have I found the fhip fever to be very fatal, or to highly contagious as to put the fhip paft fervice, but on board of fuch fhips as Dr. James's powder, tartar emetic, or the antiphlogiftic methods were followed. This is not meant as any reflection on the furgeons of fuch fhips;—it can be none—becaufe those methods are the general practice throughout the kingdom; and it is only mentioned to lament that a practice fo deftructive, fhould hitherto have been fo univerfal.

Befides the proofs already adduced to confirm the politions flated in the Introduction, many more (were it not for fwelling the volume) might

might have been added from my own observations, fince the manufcript was fent to the printer in August, 1780. One in particular, the furgeon of the 2d battalion of the 73d regiment, obligingly furnished me with in 1781. I might greatly enlarge upon it, as it is, ad rem, almost in every circumstance; but fince to fuch proofs however valid or pertinent in themfelves, it may be objected, that they did not fall under the author's observations, I purpose decline inferting it. To the fame objection, fhould it ftill be made to the few fuch proofs I have inferted, may I be allowed to answer, that, as few practitioners in phyfic will have fo many cafes come under their care, as the preceding observations are founded on; and confequently as few readers will ever have, experimentally, authority to deny the validity of them; I hope those who are under fuch a predicament, will not be more rafh to condemn or reject upon hear-fay, than I have been to impose the observations of others for my own.

In a word, I have no more doubt than of my own existence, that every practitioner will be convinced of the truth of those Observations on the Ship Fever, if they will take the proper sto be convinced:—that is, if divesting themselves of prejudice, they will make a conscientious trial of treating the ship fever with bark,

bark, as I have done, and compare the event, with that of treating it in all the other methods which have been hitherto adopted—And in making this trial, it must be an invariable rule To give the bark liberally and early—fo early. as in a manner to prevent the fever.

I with not to difcourage others from promoting the benefit of the fervice-I only do myfelf juffice, by declaring, that after having ferved the public upwards of twenty-one years, and ruined a good conflitution, by frequent attacks of ficknefs, incurred by attending my duty in various climates, my circumstances are worse than when I first entered into the fervice; and that my only recompence for the irretrievable loss of those bleffings, is the reflection that I have been inftrumental, under Providence, in preferving many lives which, in human probability, would have fallen victims to a contrary practice-a recompense that, were it poffible, would be too cheaply bartered for any thing in the power of man to beftow.

When the unprejudiced reader, who is acquainted with the writings of those physicians, who have strongly inculcated their apprehension of inevitable danger, from an early administration of the bark in fever, shall seriously consider S f the

the hiftorical facts we have gone through, in the preceding Obfervations, is it not more than probable he will conclude-" That many of those gentlemen, have adopted the idea of the danger, which is to enfue from that practice, on the authority of others who have gone before them ?" May he not be led to this conclusion, by reflecting, " that furely if bark, in the naval practice, where men are more intemperate, and labour under greater difadvantages, from their fituation, when fick, than people on fhore, is found not only innocent, but effectual when given in the beginning of fevers, even without any previous evacuation; and if it fo far excels other methods of cure, as has been demonstrated by numerical calculations, the practice ought to be fairly tried on fhore." If refuting, indignantly, to liften to reason on the most trivial fubject, be thought illiberal-how are we to judge of those who difregard the most important facts, even when they relate to a most interesting fubject ?

Supposing, however, that the advocates for different management, should retort our own words respecting bark—" That some die, because they had not taken a sufficient quantity of their medicines to cure them;"—should we grant their position, the issue of the argument will still

ftill be, that for one patient under the bark management, fifteen have died under other methods of treatment.—We therefore cannot entertain a doubt, that bark will be uniformly found fuperior to all other remedies. The different events, therefore, render the various methods of treating the fhip fever a very interefting fubject, particularly to government; becaufe, though the faculty on fhore, fhould, from repeated facts of this nature, adopt the bark method of managing fevers, the pay and perquifites of thofe who are employed in the navy, will never, while they are on the prefent eftablifhment, permit them to put it in practice. The confequence is obvious.

The fubject thus fairly flated becomes fo delicate, that a perfon in publick fervice cannot profecute it, more particularly, after what we have already demonstrated in the physical journal, and in the fourth table.—We therefore leave the matter, important as it is, before those who have the power to remedy it—and truft, they have inclination to put their power in force.

But to conclude. It is hoped we have now proved the politions laid down in the introduction, namely, "That infection often rages amongst us, unheeded and unfulpected."— "That infection may be diftinguished by the Sí2 diurnal

diurnal fymptoms we have pointed out."-" That bark far excells all other remedies extolled for curing the fhip fever."- " And that delaying to administer bark early in fevers, has been attended with fatal effects to mankind." -For those purposes irrefragable proofs were neceffary, and we have adduced them, in a feries of facts collected from experience. To the candour of those, who have, themselves, had equal opportunities of comparing the fuccels of various methods of cure, we, with all humility, appeal. To their experience, clearly and fairly stated, we will readily fubmit. 'Tis true we can neither boaft of elegance of style; of energy of expression; of well-turned periods; nor of learned quotations, qualities effentially neceffary to form a good writer ;- but, fatisfied that we have flated facts, we will think ourfelves happy if we have conveyed our meaning intelligibly; and happier still, if it shall be found that we have contributed to the prefervation of our fellow creatures, with the hopes of which we may reasonably flatter ourselves, unless we can be perfuaded that the nature of infection, and the properties of bark, shall hereafter entirely change.

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of the most liberal, executive, and the control

POSTCRIPT.

Kingston, near Portsmouth, Dec. 29, 1782.

owe to each other, as hall as to mentiond.

The Author having accidentally met with Dr. William Saunders's pamphlet, entitled, " Obfervations on the fuperior efficacy of the red Peruvian bark, in the cure of agues and other fevers, published for J. Johnson, St. Paul's Church-yard, and J. Murray, in Fleet Street," on the 27th inftant only, had not time, as he wished, to write, upon the subject, to Dr. Saunders, for whom he has a very high regard, the preceding observations, being, then, very near printed, and the author expecting, every hour, to proceed on his voyage; the Doctor, though he fhews-the use of bark in the cure of intermitting fevers, has taken no notice of feveral testimonies of its inestimable value in continual fevers, Dr. Millar's works, who for various reasons, merits the title of the Sydenham of the Age, the Phyfical Journal, published by the author in 1777, and particularly Dr. Clark's book on East-India diseases. He would recommend it to the Doctor to mention them in the next edition of his pamphlet, as they contain accounts of of the most liberal, extensive, and the earliest trials of bark in fevers, which have ever yet appeared before the publick. These testimonies will rather promote than frustrate the Doctor's benevolent design;—besides, 'tis a justice we owe to each other, as well as to mankind.

FINIS.

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Callerale 19 Fore

and the start of the start of the

Page a	ERRATA.	
Page 2 of the Contents, line 3, for Numbers read Number.		
Page 2, line 4, for dea, read Idea.		
0,	4, in the note, for two, read three years-befides other	
	mips.	
22	in the note read Chap. xlix. v. 6.	1
27	5, dele 7th line 7, for extoled, read extolled.	
28	lan, for produced, read failed to produce.	
II	OBSERVATIONS.	
58	3 and 4, for by a fcurvy, read for fcurvy. 10, for officers, read officer.	
63	21, for harraffing, and wherever it occurs, r. haraffing.	
64	3, for hammocs, and wherever it occurs, r. hammacoes.	
79	ry, acte liau.	
80	10, for of whom, read one of whom.	
108	11, for in new, read for new,	
112	in the note, for pages 71 and 72, read 85 and 86.	
I32 .	10 & 19, for Cannanictel, read Connecticut.	
150	14, for chilnefs, or wherever chillnefs occurs, r. chillinefs.	
209	11, for reaching, and wherever it occurs, read retching; and for belly-ache, read belly-ach.	
189	5, for fuperbibendo menthæ infufionem, read fuperbi-	
-	benda menthæ infusione.	
192	16, for 24 read 14.	
210	2, for birth, read berth.	
212	17, for sweat, read sweated.	
215	19, dele repeated.	
£23	29, for admoui, read admovi. 26, for fuerent read fuerunt.	
237	2, read Part III.	
	17, for to the 31ft July, 1780, read 7th May, 1782.	
251	14, for lodorinc, read iudorific.	
257	17, for febrifage read febrifuge.	
288	10, for thæ, read theæ.	
299	after Cafe XXX. for the third head, fee the cafes which	
	terminated fatally, p. 263; and for the inferences, fee the Conclusion.	
312	to, for purpole read purpofely.	
313	10, for twenty-one, read twenty-three.	
	ERRATA OF THE TABLES	
In Table	IV. page 145, is omitted the Column which was to thow	
Line II	dinoer who died at noipitais.	
Table VI	ught to have ended with Table III. page 229.	
Tabl	of Part III. ought to have been where Table I. is, and	
Table IV	e I. and II. to have been II. and III.	
III. i	V. and VI. of Part II. ought to have followed Table n Part III. and for Juno ought to have been Edgar, and	
me u	the of I able v1. mould be- ' thewing Arc. Difeates in the	
rwo h	nececuting Lables : and the title of Table VII thould	
nave	been, Shows, acc. Death in the three preceding Tables.'	
and to	obe l'able vil, in Part 111.	
Table III. page 302, ought to be Table VIII.		
Table IV. page 304, ought to be Table IX.		
Table V. page 306, ought to be Table X. and to have been entitled		
titles	newing, &c. Difeafes in the two preceding Tables.' The of the two right-hand columns of this table, are mifplaced	
-'D	eaths on board'-ought to have been-' Numbers fent to	
rioipi	tals; -and vice verla.	
Table VII	. page 310, ought to be entitled. Table XI : the left-	

able VII. page 310, ought to be entitled, Table XI.; the lefthand column of which ought to be entitled Number of Patients -inftead of Deaths.

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