Observations on the diseases which appeared in the Army on St. Lucia, in 1778 and 1779. To which are prefixed, remarks calculated to assist in ascertaining the causes, and in explaining the treatment, of those diseases. With an appendix, containing a short address to military gentleman on the means of preserving health in the West-Indies / [John Rollo].

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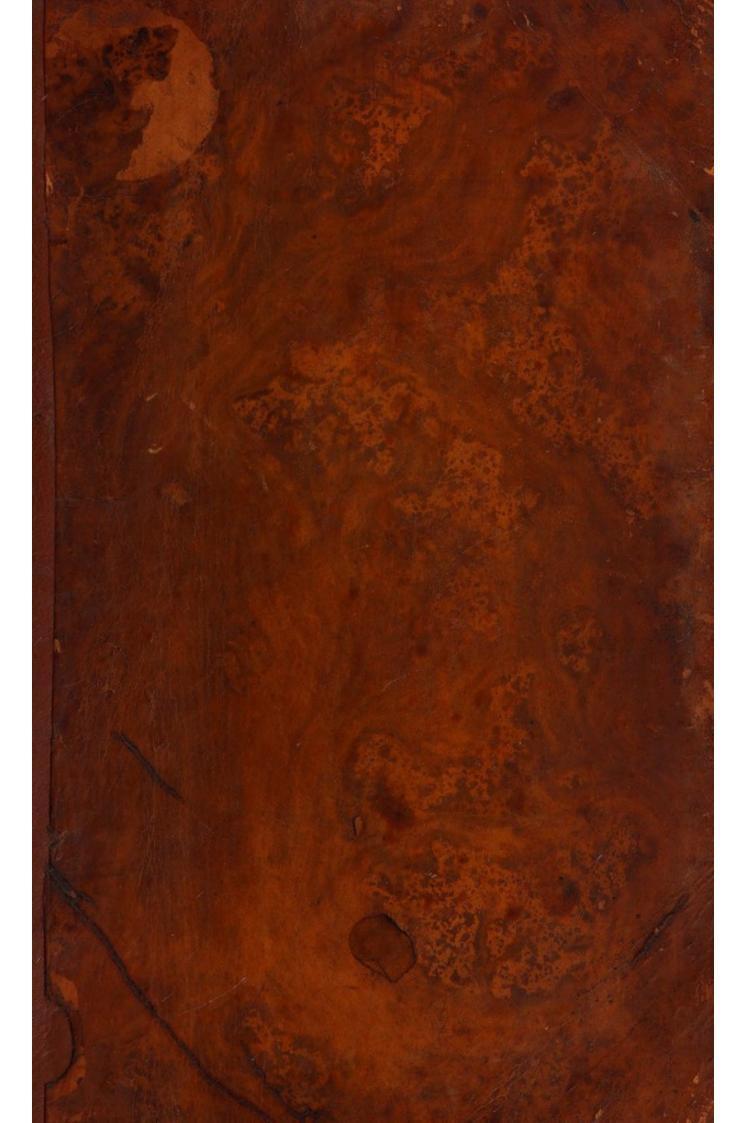
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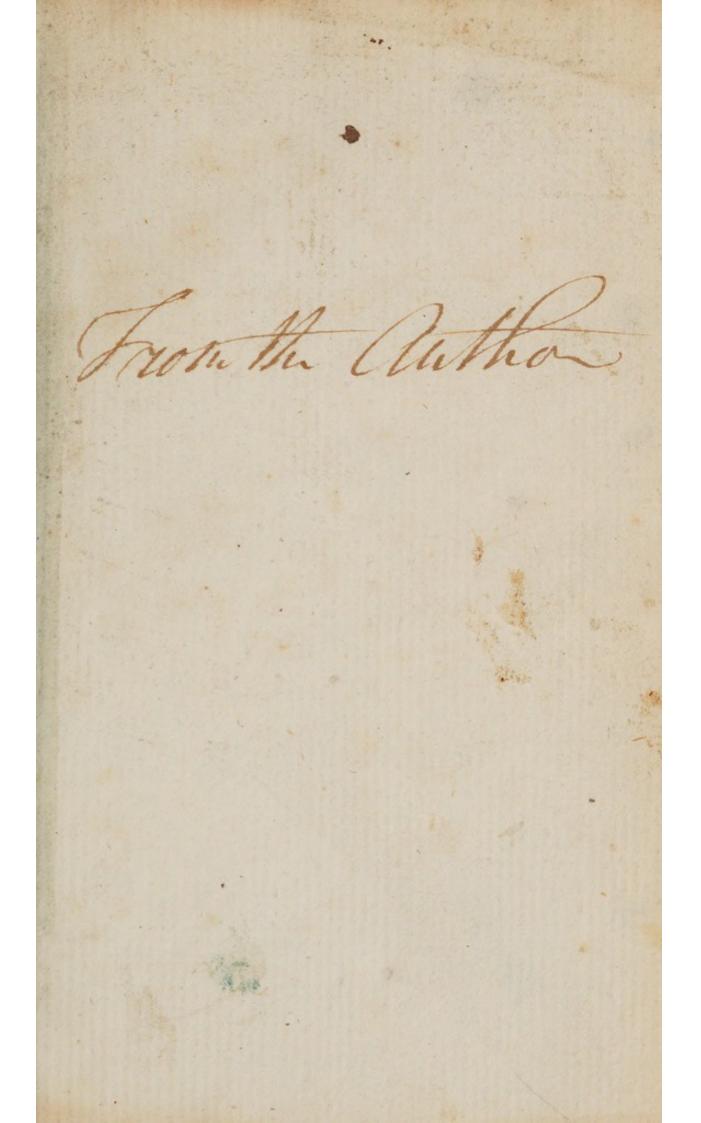
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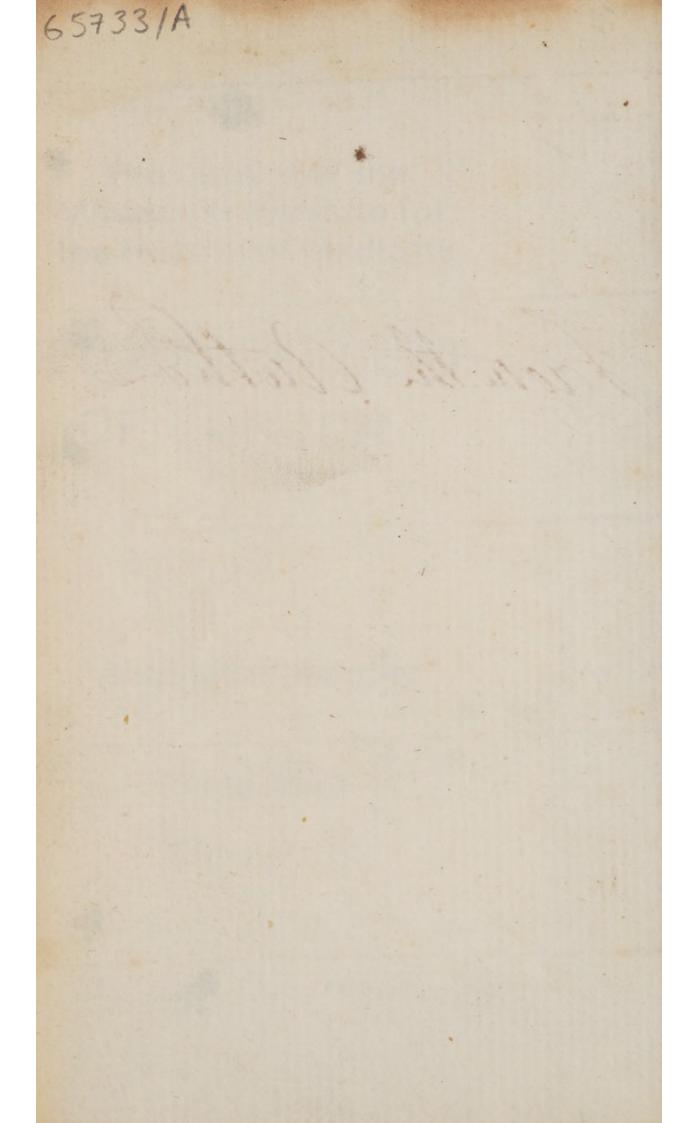
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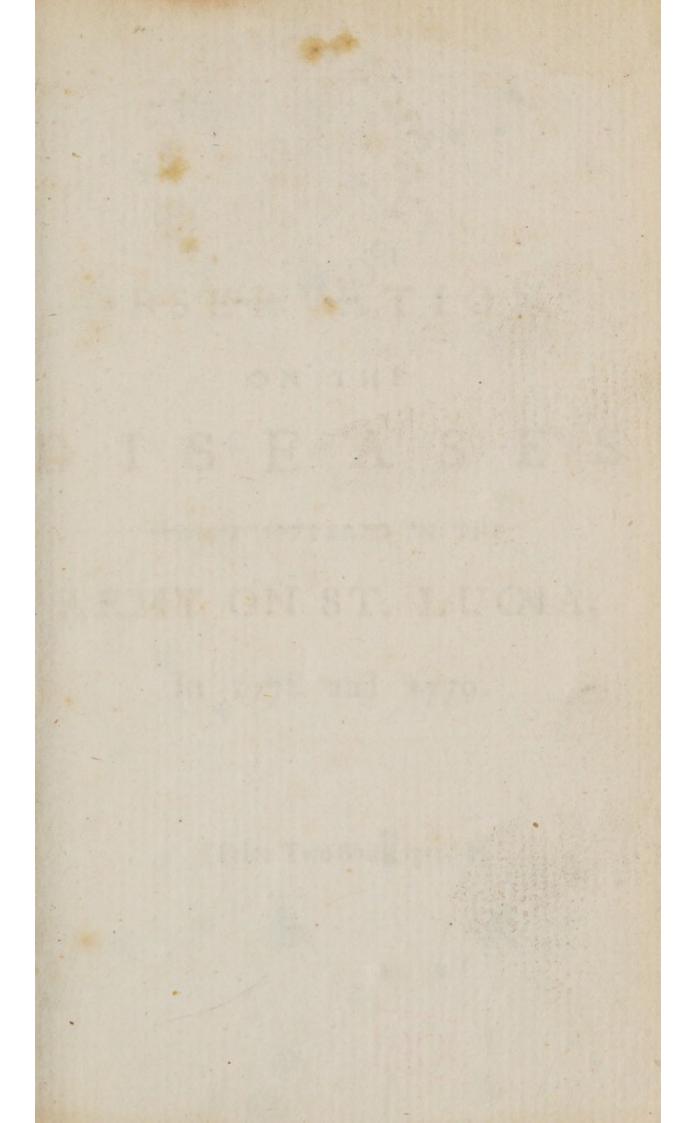
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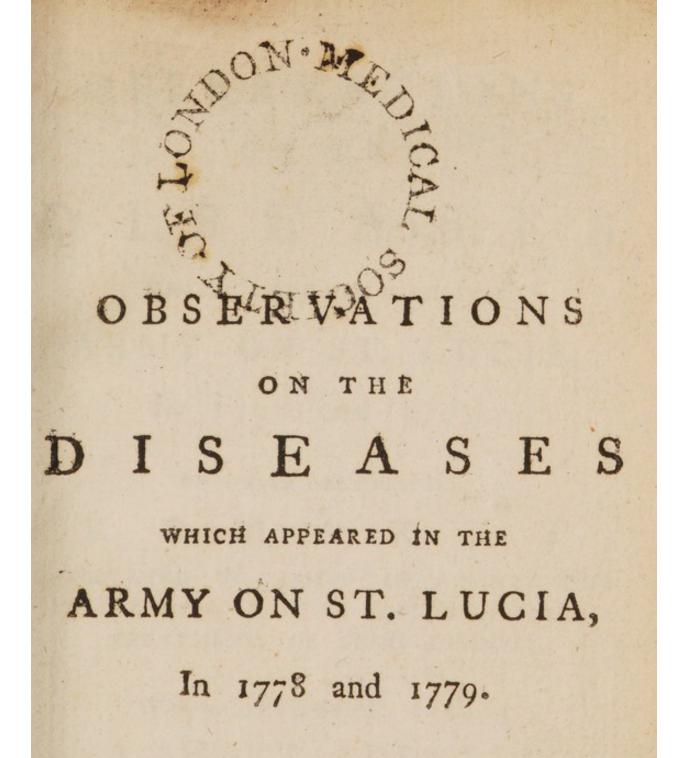
ROLLO, J.



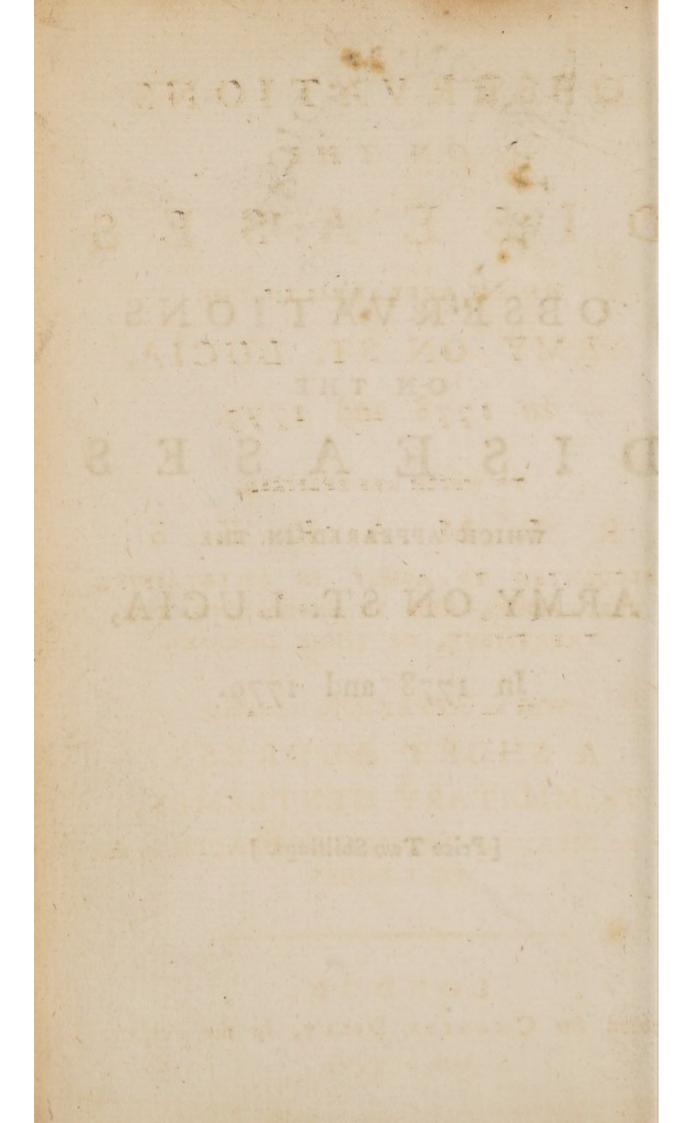








[Price Two Shillings.]



OBSERVATIONS ON THE DISEASES WHICH APPEARED IN THE ARMY ON ST. LUCIA,

In 1778 and 1779.

TO WHICH ARE PREFIXED, R E M A R K S CALCULATED TO ASSIST IN ASCERTAINING THE CAUSES, AND IN EXPLAINING THE TREATMENT, OF THOSE DISEASES.

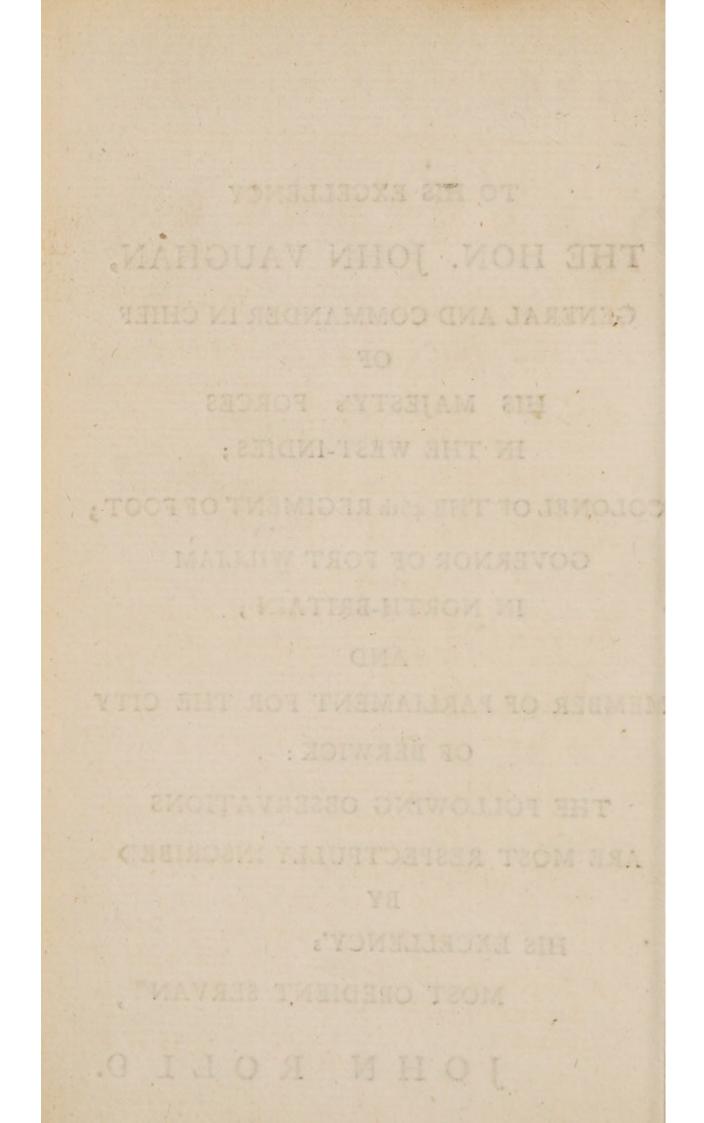
With an APPENDIX, containing

A SHORT ADDRESS To MILITARY GENTLEMEN, On the MEANS of PRESERVING HEALTH in the WEST-INDIES.

LONDON: Printed for CHARLES DILLY, in the Poultry. MDCCLXXXI.

OBSERVATIONS AHT NO ISEASES ARMY ON ST. LUCIA. In 1778 and 1779. TO WHICH ARE PREFIXED. EMARIE E CAD TO ASSIST IN ANCERTAINING TREATSIC SHORE OF THISE DISEASES. With an AFPENDIX, containing A SHORT ADDRESS TO MILLTARY GENTLEMEN. LONDON: for CRAREES DILLET, in the Pouliers,

TO HIS EXCELLENCY THE HON. JOHN VAUGHAN, GENERAL AND COMMANDER IN CHIEF OF HIS MAJESTY'S FORCES IN THE WEST-INDIES; COLONEL OF THE 46th REGIMENT OF FOOT; GOVERNOR OF FORT WILLIAM IN NORTH-BRITAIN; ·AND MEMBER OF PARLIAMENT FOR THE CITY OF BERWICK : THE FOLLOWING OBSERVATIONS ARE MOST RESPECTFULLY INSCRIBED BY HIS EXCELLENCY's MOST OBEDIENT SERVAN JOHN ROLLO.



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THE CARIBBEE ISLANDS have always proved unhealthy and fatal to the European conflication, but to none fo peculiarly as to the foldier. The nature of his duty exposes him to meridian heat and midnight air, to every fpecies of fatigue, and to every caufe which can possibly produce difease. The effects of this fituation have been no where fo unfortunately demonstrated, as on the Island of St. LUCIA.

The extensive fickness and mortality in the army a little time after our landing on that Island, did not fail to excite every medical effort. The want of pro-

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X

per places for the reception of fick, diftant pofts which prevented a timely application, and fomething in the nature of the difeases which required a different treatment, by a more early and lefs timid exhibition of medicine, concurred in rendering the practice not apparently fuccessful. We acknowledge, that we met with many difficulties, and often regretted our deficiency in experience. These we attempted to remove, by an' affiduous attention to the nature and fymptoms of the difeases which appeared, and to the effects of medicines. In this pursuit we were affisted by the obfervations of the justly celebrated Cul-LEN, LIND, CLECHORN, and of Doctor MACKITTRICK, Antigua ; and medical gentlemen will eafily perceive how far we are indebted to them, even though we adduce no quotations.

The refult of this attempt is now fubmitted to the candour of the Medical Gentlemen of the Army; and we fin-

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cerely hope it may induce gentlemen, whofe abilities and long fervices have enabled them to afcertain the moft effectual means of preventing and removing the difeafes to which an army in all its various fituations in the West Indies may be fubjected, to communicate them.

The OBSERVATIONS were made in DECEMBER 1778; JANUARY, FEBRU-ARY, MARCH, APRIL, and MAY, 1779, which takes in the period of the troops first landing on St. LUCIA: A bad state of health, and a departure from the Island, prevented us from prosecuting them any further. For these reasons, the plan we had laid down to ourfelves could not be carried on to the extent originally defigned. However, we have still retained it; and although subject to many defects, we trust it to the liberality and generofity of those whose knowledge and experience entitle them to the respect and esteem of every one convinced. A

xii INTRODUCTION.

vinced of the utility of the medical profession.

The Arrangement or Plan alluded to, follows :

I. A DESCRIPTION OF DIFFERENT PLACES OF ST. LUCIA, which were or may be occasionally occupied by the ARMY, with a GENERAL ACCOUNT of the ISLAND premised.

II. A REGISTER of the WEATHER from the 14th DECEMBER 1778, to the 31ft MAY 1779, inclusive.

III. A TABLE, containing a LIST of the DISEASES, and an ACCOUNT of the NUMBER of MEN in HEALTH on the different SITUATIONS to be defcribed.

IV. Of the SITUATIONS of the ISLAND on which the MEN specified in the TABLE were fixed, and an ENDEA-VOUR tO DETERMINE the MOST HEALTH-FUL.

V. OBSERVATIONS on the DISEASES marked in the TABLE, in their HIS-TORY, CAUSE, and TREATMENT.

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VI. A PARTICULAR DESCRIPTION of several Cases, selected from the TABLE.

VII. And, lastly, OBSERVATIONS ON the MEANS OF PREVENTING RELAPSES.

A Defcription of different Places of ST. LUCIA was thought neceffary to affift in afcertaining the causes of its difeases, to enable more clearly to point out the parts of the Island on which the Men were fixed, and to determine the most healthy fituations.

A Register of the Weather has been always thought useful, and from it many trace causes of disease: for these reasons we have given one. By being kept on board of a transport, it must be defective; however, it will ferve to shew the state of the atmosphere, the direction and degree of winds, and the rainy days.

A Table, comprehending, 1. The patients we had an opportunity of attending to, with their difeases, and the different posts on which they were placed, annexed to each : 2. The number

xiv INTRODUCTION.

ber of men in health, originally on each fituation; the number of fick, relapfes, and deaths. from each, will fhew the extent of the practice, and affift in afcertaining the most healthy fituations.

It was imagined the general Defcription of the Difeafes would be illustrated by a minute Account of some Cafes felected from the Table: this we have accordingly given, and the Cafes will be described in the order observed in the Hillory.

From the frequent opportunities we had when in America of examining the nature and cure of Dyfentery, we were led to make fome alterations in the common treatment of that difeafe. A fuccefsful practice approved the alteration made, and this has been more firmly fupported by the trials we have given it in the Weft Indies. We fhall, however, only mention it in very general terms, referving a particular explanation to a future period.

We were naturally led into an enquiry on the means of preventing relapses, from their very frequent occurrence, from observing the different states of health of inhabitants and soldiers on different parts of the Island, and from the effects of a change of air.

In the courfe of these Observations it will be easily perceived, that they are chiefly drawn from Cases of Men under the immediate direction of Captain WILLIAMSON, commanding his Majefty's ROYAL ARTILLERY in the WEST-INDIES. The generous attention he beftowed on them in the hour of difease, and the readiness he always displayed to coincide with every reasonable request for their assistance, have not failed to endear his character to the foldier, and to constitute him one of the first ornaments of humanity.

Through the whole, we were very much indebted to the late experienced, generous, and humane Doctor BRUCE.

XV

xvi INTRODUCTION.

He was Phyfician to the Army; and if a constant attendance to duty, a steady adherence to benevolence and juffice in the performance of it, are the marks of a valuable public character, to him that appellation justly belonged, and on him it was univerfally conferred : and if fincere feelings of regret, in every department of the Army, and by every individual who had the most distant knowledge of him, are proofs of respect, efteem, and attachment, he had an extenfive fhare of them. I know there is no perfon who recollects his name, but will be struck by his virtues, and many with me will drop a tear of gratitude :

Mon deuil me plait, et dois toujours me plaire, 11 me tient lieu de celui que je pleurs.

h the whole, we we

PART

PART I.

OBSERVATIONS

CALCULATED TO ASSIST IN

ASCERTAINING THE CAUSES,

AND IN

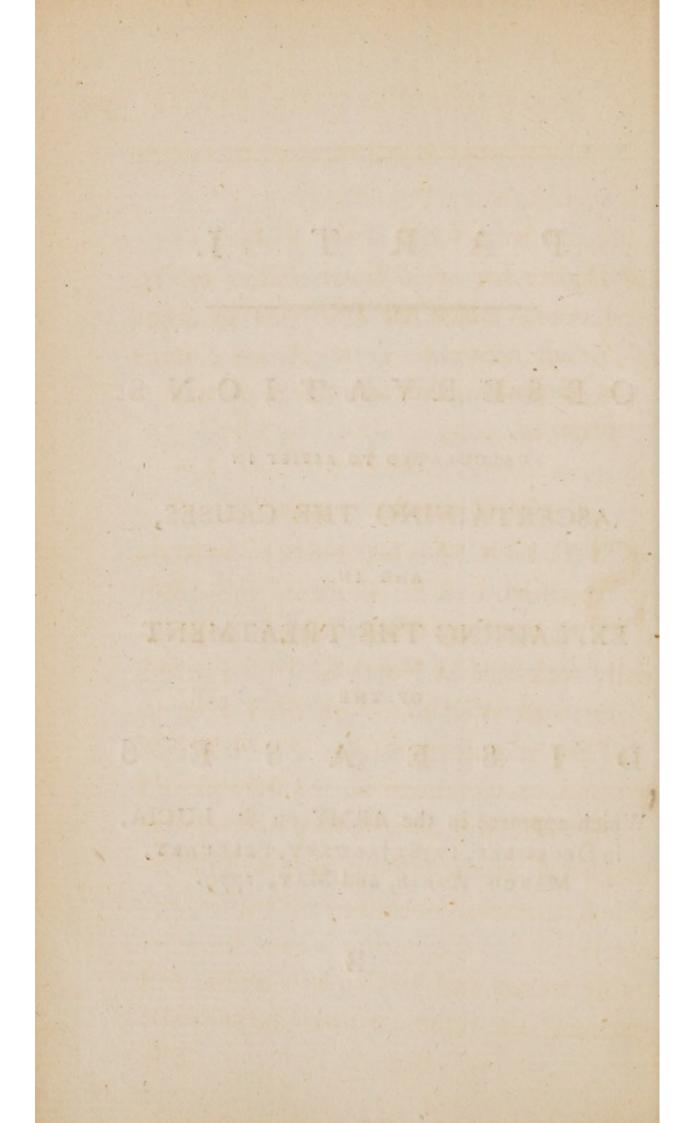
EXPLAINING THE TREATMENT

OF THE

DISEASES

Which appeared in the ARMY on St. LUCIA, in December, 1778; JANUARY, FEBRUARY, MARCH, APRIL, and MAY, 1779.

B



CHAP. I.

A Description of different Places of St. LUCIA, which were or may be occafionally occupied by the ARMY; with a GENERAL ACCOUNT of the ISLAND premised.

§ I.

Of St. LUCIA in general.

ST. LUCIA is fituated betwixt Martinico and St. Vincent, and from it both are difcernible; it is generally reckoned in North latitude 13 deg. 55 m. and Weft longitude 60 deg. 4 m.

This island represents a portion of ground, on which are every where placed perfect and imperfect cones of irregular heights, leaving in fome parts a confiderable flat, in many others deep vallies, covered with a stagnating water, impenetrable woods and poisonous shrubs, and generally the refort of noxious animals.

OF ST. LUCIA IN GENERAL. [P. I.

The fea-fhore on both fides of the ifland is high, very rugged, and full of bays of various extents; the Windward fide has its fhore particularly bold and irregular, and in many parts of it a high white rugged beach.

The featons are much the fame here as in the other Caribbee Islands; the rainy periods continue longer, and appear in different times. We were told, that in December, January, and February, there was generally rain, but not fo constant or of fo long a continuance as in 78 and 79. The particular rainy feason begins about the end of June, and continues feveral months. In the winter the mornings and evenings are chilly; fummer months hot and fultry: May and June were exceedingly hot and difagreeable, especially when there was little wind, (vide Register) and in these months infects of the most troublesome kind overrun every place.

The

P.I.] OF ST. LUCIA IN GENERAL. 5

The winds generally blow from the N.E. to the S.E. feldom varying to the Weftward. About the latter end of July, but more certainly in August and September, the winds blow very severe, fometimes forming a hurricane.

In the evening of the 5th of March, a flight touch of an earthquake was felt, both on Morne Fortune and in the Carenage, but it was of no continuance: thefe tremblings of the earth are now and then perceptible, but never of any feverity or duration.

The foil of this ifland, on the dry flats of land, and on the brink of hills, is in general composed of a good layer of black mould, clay, and fand. About Gros Iflet, particularly to Windward of it, the foil is fandy, having but a very flight furface of black earth. Several Gentlemen well acquainted with the foil of our other Iflands, affured me that the foil of St. Lucia was in general the B 3 most

6 OF ST. LUCIA IN GENERAL. [P. I.

most rich and fertile. It produces cocoa, coffee, cotton, and sugar-cane, vegetables and fruit in plenty; they have cattle, poultry, and fish in abundance; but from the present behaviour of the natives and refidenters, the foldier and stranger find the reverse. These people consist of Europeans, Creoles, Negroes, and a few families of Caribbees: the two first classes are French, and of that extraction, except two or three individuals; the French manners therefore prevail. Very few of them, even Creoles, on the Leeward fide of the island, arrive at any age: they live regular, and are in general cleanly : fish and vegetables, with a little wine, are their principal diet, especially those who have their refidence in the Bays; they, at times, however, eat their mutton; and those in the interior parts of the island subsist chiefly on vegetables and fricassees. The French are remarkable

3

for

P. I.] OF ST. LUCIA IN GENERAL. 7

for their indolence, leaving every thing to be done by their female mulattoes, of whom they are particularly fond : you find them either asleep, lolling under a tamarind-tree, smoking, or engaged in the most triffing conversation.

St. Lucia is not destitute of medical productions; among the chief of which are fimarouba, zinziber, cassia fistularis, and the castor-nut : ipecacuan, squills, jallap, farsaparilla, and even bark, are faid to be found here. We look forward with an anxious hope to the prefent Phyfician of the Hospital, whose known abilities and industry in this, as well as in every other part of his profession, have fully enabled him to favour the world with fatisfactory and important accounts of every medical produce which can poffibly be met with in any of the Caribbee Islands.

3 OF MORNE FORTUNE. [P. I.

§ II.

Of MORNE FORTUNE.

MORNE FORTUNE is a high hill of a steep ascent, an extensive base, and a flat top; it gradually arifes on one fide from the bottom of the Carenage-Bay, and from Cul de Sac on the other: it is fituated to Leeward of the island, having higher hills than itfelf to Windward. The fides of this hill were covered with thick, and (except a narrow path on one fide, and a paved way on the other) almost impenetrable woods; these, however, became more clear, but not near fo much as neceffary; the paths were widened, and the ascent made less difficult. The top or fummit of this hill is perfectly free of trees or shrubs, and is of considerable extent; on it the Governor's house, a building for barracks, and an hospital were

P.I.] OF MORNE FORTUNE. 9

were erected, and thefe were found in tolerable good order: this building was entirely converted into the latter purpofe; the rooms are large and well adapted, every convenience fuitable, but the fituation of it is by no means proper; it is fixed towards the leeward, or Cul de Sac fide of the hill, and in the moft hollow part of the whole, with a rifing to windward of it, which nearly covers one half of the height of that fide of the edifice.

On different parts of the top of this hill, foldiers formed to themfelves huts of reeds, and thatched them with a long grafs found in the vallies. The heavy rains foon penetrated thefe loofe buildings; and the foldier, after being expofed to fatigue in the fun, or to long watching in the night, was under the neceffity of accepting the refrefhment a wet and cold habitation afforded. The greateft number of thefe huts was raifed on the eaftern

10 OF GRAND CUL DE SAC. [P. I.

eastern part of the fummit of the hill, which we imagine to be one of the best spots for that purpose, being partly to Windward, and receiving an air less intercepted by noxious woods.

§ III.

Of GRAND CUL DE SAC.

GRAND CUL DE SAC is a large bay, of about one mile diftance from the top of the Morne, and to the S. W. of it. It is furrounded on each fide by an irregular chain of hills, and those beyond the bottom of the Bay are more particularly covered with wood, and have their tops in the clouds.

There is a flat at the bottom of this Bay, in the middle of which a river runs in a ferpentine direction from the bafis of the hills, and terminates in the Bay. This river is narrow, of fome depth,

and

P. I.] OF GRAND CUL DE SAC. II

and over its edges hang a number of trees and fhrubs whole roots are covered with flime. The north fide of the river, or north division of the flat, is covered with wood, which extends and runs along the beach. The foil among the trees and fhrubs is moift, and of a flimy and clayish appearance. The other divifion of the flat has feveral pools of a dark-coloured water, covered with a greenish fcurf, and on the beach are placed a few defpicable huts, the habitation of fishermen.

The fourh fide of Cul de Sac is high, and, towards the Bay, clear of wood; it is exactly in the direction of the winds which pafs over those parts we have just defcribed.

The north fide of Cul de Sac is rather higher than the fouth; it is not in the direction of the winds which pass from the bottom of the Bay, being rather to windward of it, but this fide has the air 12 OF THE CARENAGE. [P. I. air which paffes through and over the neighbouring woods.

At the fea extremity of the north fide of Cul de Sac is a low fituation, on which a temporary battery was formed; a conftant dampnefs or moift earth diftinguished the place, and it was subject to a rush of air, from a kind of valley, and a marshy ground nearly to windward of it.

§ IV.

Of the CARENAGE.

CARENAGE-TOWN is a fmall place, formed at the bottom of the Bay from whence it has its name, confifting of a few infignificant houfes, but not irregularly difpofed : the ftreets run in the difpofition of the town, which has the exact figure of a crofs; the frequent rains overflowed the ftreets, and you always met with a ftagnating puddle. This

P.I.] OF THE CARENAGE. 13

This place is fituated on a flat piece of ground, is more to windward and more to the northward than Cul de Sac, and is immediately at the bottom of the Morne, on its north side: it is surrounded by hills, and on the windward fide of it is an extensive bare marsh, which gives its unfalutary effects with every breeze of wind to the inhabitants; and on the leeward fide of the town a river runs, from a good way back in the country, and terminates in the Bay. The hills to windward form a ridge, at the back of which are higher hills covered with thick woods, whose bottoms make vales, where are pools of stagnating water and marshy ground.

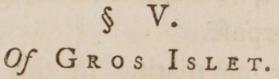
The north fide of the Carenage-Bay is formed by a kind of peninfula, which is almost feparated from the island by a narrow creek running from the Bay. This is a high neck of land, termed Morne Vigie : it is but little covered with

with wood, and not much in the direc-

The fouth fide of the Bay is a high hill, gradually declining from the bottom of the Bay, until it terminates in a flat: the whole is in the direction of the marsh and stagnating water of the town. At the uttermost point of this side of the Bay stands a rock of a circular figure, of some height, and nearly perpendicular; it is separated from the land by fome low rocks covered with fand; on it are placed guns, and a small hut for the accommodation of a few men : it receives an air pure and untainted, feldom paffing over any part of the ifland.

Carenage-Eay is narrow and long, and the greatest part of it in the direction of the wind passing over the land: a clear and wholesome air can only be claimed in that part of it, betwixt the Vigie P.I.] OF GROS ISLET. 15 Vigie and Rock-Battery, which form the mouth of the Bay.

From the particular make of this Bay, and the difposition of the furrounding hills, it never fails of having a large proportion of the rain which falls in this part of the island.



GROS-ISLET-BAY is capacious, being of confiderable width and length; it is formed by an ifle on the north fide, by St. Lucia on the Eaft and South, and is fituated at the northern extremity of the ifland.

On the bottom of this Bay are a number of houses fimilar to those in Carenage; Marshes, stagnating water, and woods, are but trifling here in comparison with some of the other places we have mentioned. The country around

19

16 OF SOUFFRIR AND [P. I.

is pretty clear, and the air which regales the inhabitants passes over but a small part of the island.

The isle which forms the north fide of the Bay, is known by the name of Pigeon Island; it is very high and steep, and any appearance of flat is on the windward fide. The Navy have fick on this part, huts and tents being erected for the purpose.

The air circulating in this Bay receives little or no impression from the land; the situation here is more cool and agreeable on board of ship than in the Carenage.

§ VI.

Of SouffRIR and to Windward of it.

SOUFFRIR is a small town refembling those described, situated at the bottom of a bay towards the Leeward extremity of the island : like Carenage, it

P.I.] TO WINDWARD OF IT. 17

it is furrounded by hills cove ed with trees; but here, the declivities of the hills, and every part capable of produce, are cultivated, and afford good fugarcane. This place has its marfhes, but not fo extensive, or fo much to windward as those about Carenage.

The extremity of the fouth fide of Souffrir-Bay runs into two fteep hills of a conical figure, which are nearly perpendicular : they are reckoned the higheft on the ifland, and are known by the name of the Sugar-Loaf Hills. From their height and ftraitnefs it is impoffible to afcend them : we were told it was once attempted by two negroes, but they never returned. They are covered with trees and fhrubs, and are the fhelter of goats, feveral of which fometimes defcend, and are fhot by the natives.

After you pass the hills to windward of Souffrir, a fine clear and level coun-

try

18 OF SOUFFRIR, AND [P. L.

try prefents itself. From the back of the Sugar-Loaf Hills, and all along the feacoast, to the distance, we suppose, from fifteen to twenty miles, this flat or level extends : it is all cultivated and divided into rich estates, affording sugar cane' equal to any in our Islands. This beau tiful spot is interfected by many rivers of very clear water, and thefe are conducted by art to the purpose of sugarmaking. The rains, in this part, are less frequent than on any other part of the island; however, they have often a. proportion more than sufficient. The wind here blows from the fea, or nearly fo.

We cannot finish this description without taking notice of a volcano, in the neighbourhood of Souffrir. You pass over one or two small hills to the fouthward of the town, and before any mark of the place is perceived, you are fensible of the smell of suphur. The first

P.I.] TO WINDWARD OF IT. 19

first thing you discern is a rivulet of a black running water, fending forth steams as if near boiling. From the prospect of this you soon open on the volcano, which appears in a hollow, furrounded close on every fide by hills. There are only two openings; the one we entered, and another almost opposite to it on the north fide. In the hollow there are many pits of a black and thick boiling matter, which feems to work with great force. Lava is flowly thrown out, and in the centre of the hollow there is a large mass of it forming a kind of hill. This we ascended, but were soon obliged to return, from the excessive heat. The lava is a fulphur, mixed with a calcareous earth and fome faline body. We found small quantities of alum in a perfect state. In the opening, at the north fide of the hollow, there is a rivulet of very good water. On stirring the bottom over which this wate runs,

C 2

we

20 OF SOUFFRIR, &c. [P. I.

we were furprifed with feeling it very hot; and on placing a tumbler filled with fome of the water clofe to the bottom of the rivulet, it foon became fo hot as not to be touched. The liquid which runs from the pits is ftrongly impregnated with fulphur, and refembles a good deal the preparation fold in the fhops, known by the name of *aqua fulphurata*, or *gas fulphuris*. Before St. Lucia was in our poffeffion, two or three veffels were loaded with the crude fulphur of this volcano, for the ufe of America.

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ARE-

CHAP. II.

(21)

A REGISTER of the WEATHER, from the 14th of DECEMBER, 1778, to the 31st of MAY, 1779, inclusive.

IN ftating the account of the weather, we intend, I. to mark the month; 2. the rainy days; 3. the clear; 4. the cloudy; 5. the thick and foggy; 6. the degree and direction of the winds; and 7. add fome remarks.

It will be neceffary to premife an explanation of fome terms we shall have occasion to use. The frequent rain, is intended to denote short showers frequently repeated, withintervals of clear or cloudy sky; and by constant rain, more frequent showers, of longer duration, and of shorter, or little or no intervals. We would wish to give the idea by clear, of a mild and serene atmosphere, with sew or no clouds, or, in other words, pleasant weather : thick, C 3 bazy,

22 OF THE WEATHER. [P. I.

bazy, or foggy, and cloudy weather, the reverfe. By moderate winds, we mean all the degrees from calm to light and gentle breezes; ftrong, the degree upwards to the feverest winds we had, which came in squalls, and were often very severe, but of no continuance: they generally accompanied showers, or rather usered them in, and went off with the rain.

DECEMBER, 1778. RAINY DAYS.

(a) Frequent rain, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29.
(b) Conftant rain, 26, 30.
CLEAR DAYS, 14, 23, 24, 25, 31.
CLOUDY DAYS.
THICK AND FOGGY DAYS.
WINDS.

1. Direction.

Varying from the North Eaft to the South Eaft points; but generally Eaft North Eaft, feldom to the Southward.

2. Degree. (a) Moderate,

(b) Strong,

From the 14 to the 29 inclusive, and the 31. 30.

P.I.] OF THE WEATHER. 23

REMARKS. The evenings of this month were cold and chilly; the mornings of the clear days, and days of Frequent Rain, were in general pleafant and agreeable; but in those of Constant Rain, a different aspect was exhibited.

JANUARY, 1779.

RAINY DAYS.

(a) Frequent rain, 1, 2, 13, 21 to 29 inclusive, and 31.
(b) Conftant rain, 4, 6, 7, 14, 15.
CLEAR DAYS, 2, 5, 8, 9, 12, 18, 19, 27.
CLOUDY DAYS, 10, 11, 17, 20, 30.
THICK AND FOGGY DAYS.

WINDS. 1. Direction.

Nearly the fame as in laft month, rather more to the Southward.

2. Degree. (a) Moderate,

(b) Strongs

I to 5, 8 to 11, 13 to 20, 22, 26, 27, 30. 6, 7, 12, 14, 21, 23, 28, 29, 31.

REMARKS. The 7th of this month is marked Conftant Rain, but it was only for the first twelve hours of the day. C_4 In

24 OF THE WEATHER. [P. I.

In the cloudy days, the weather was close and fultry; evenings and mornings, particularly after rain, difagreeably chilly and cold. The clear days were pleasant and agreeable in the shade,

FEBRUARY.

RAINY DAYS.

 (a) Frequent rain, (b) Constant rain, 	3, 8 to 12, 23, 27, 28. 22, 25.
CLEAR DAYS,	4, 7, 13, 15 to 20, 26.
CLOUDY DAYS,	1, 2, 5, 6, 14, 21, 24.
THICK AND FOGGY	
DAYS.	
WINDS.	
1. Direction,	To the northward of East.
2. Degree.	
(a) Moderate,	3 to 7, 13 to 17, 19, 20,
	21, 25.
(b) Strong,	1, 2, 8 to 12, 18, 22, 23,
	24, 26, 27, 28.

REMARKS. The wind blowing fo ftrong, and fo conftantly to the northward in this month, only two days to the fouthward of East—the 22 and 28 —and having fewer rainy days than in the last month, the weather was more equally

OF THE WEATHER. P. I.] 25

equally cool and pleafant. The 22d day is marked Constant Rain, but it was only for eleven hours.

MARCH.

RAINY DAYS. (a) Frequent rain,

(b) Constant rain. CLEAR DAYS,

THICK AND FOGGY

DAYS,

1, 8, 19, 20, 21, 28, 30.

- 3 to 7, 10, 12, 13, 15 to 18, 23 to 26, 29.
- 9, 14, 19, 21.- The two first unaccompanied with rain, the latter frequent showers.

WINDS. 1. Direction. 2. Degree. (a) Moderate, perfect calm. (b) Strong,

To the northward of East.

2, 4 to 10, 16 to 25.-This last day was a.

1, 3, 11 to 15 to 26, to 31.

REMARKS. This month was in general cool and agreeable. Tenth day, the morning and forenoon calm; afternoon the wind was ftrong, and the evening was attended with thunder and lightning. The wind only varied from the north-

26 OF THE WEATHER. [P. I.

northward the 5 and 16; and the 11, varied from the eastward to the westward of North.

APRIL.

RAINY DAYS. (a) Frequent rain, 4, 5, 9, 11, 12, 13, 22, 29, 30. (b) Constant rain. 2, 3, 7, 16, 17, 19 to 27. CLEAR DAYS, CLOUDY DAYS, 1, 6, 8, 10, 14, 15, 18, 28. THICK AND FOGGY DAYS. WINDS. To the northward of East. 1. Direction, z. Degree. (a) Moderate, 1, 2, 5, 9, 10, 12 to 17, 20, 21, 22, 25, 26, 27, 30. (b) Strong, 3, 4, 6, 7, 8, 18, 23, 24,

REMARKS. The weather was more hot and fultry in this than laft month. The wind only varied one day to the fouthward of Eaft—the 13. The frequent rainy days in this and the fucceeding month, generally began in the afternoon, and often continued through the

28, 29.

P.I.] OF THE WEATHER. 27

the night. The mornings of these days were clear; tho' there was, for the most part, a shower early in the morning.

MAY.

KAINY DAYS.	
(a) Frequent rain,	3, 10, 12, 14, 16, 30.
(b) Constant rain,	2,31.
CLEAR DAYS,	7, 8, 9, 15, 17 to 25.
CLOUDY DAYS,	1, 4, 5, 6, 13, 22, 23, 26
	to 29.
THICK AND FOGGY	

 THICK AND FOGGY

 DAYS.

 WINDS.

 1. Direction,

 2. Degree.

 (a) Moderate,

 2, 3, 4, 7, 8, 15, 17 to

 21, 24 to 27.

 (b) Strong,

 1. 5, 6, 9 to 14, 16, 22,

23, 28 to 31.

REMARKS. The weather, in this month, notwithstanding the frequent winds, was more hot and fultry than the last: all kinds of infects were more numerous and troublesome. Second day, marked Constant Rain, was calm. The wind was two days to the southward of East—the 3 and 26.

GENERAL

28 OF THE WEATHER. [P.I.

GENERAL REMARKS.

I. The wind, in the latitude of St. Lucia, generally decreafes towards evening, and encreafes or renews its ftrength in the morning, an hour or two after fun-rifing. I have heard, however, frequent fqualls in the night, which were always accompanied by rain.

II. In the clear days, the wind is generally more to the northward than in the other days; in the cloudy, the wind is more to the fouthward; and in the rainy days, the wind inclines to the eaftward.

CHAP.

(29)

CHAP. III.

A TABLE containing a LIST of the DISEASES, and an Account of the Number of MEN in HEALTH on different SITUATIONS to be described.

THIS Table is formed of two Parts.

The First Part marks the diseas, and is divided into nine columns.

First column specifies the number of sick from each different post, by 1, 2, 3, &c. The mark * denotes those who have relapsed, or who have been formerly affected by difease.

Second column specifies men's name. Third marks the difease; and in tracing this column with the first, you will find the frequency of relapse, and the alterations which may have happened 30 OF THE TABLE. [P.I.

pened in the fecond or third appearance of the difease in the same patient.

Fourth points out the fituations of the island on which the men were fixed: in this column of the Table frequent recourse must be had to the description of each of the places mentioned.

It is neceffary here to obferve, that the patients marked from the Ridge of Hills to windward of Carenage, were for two or three weeks, at our first landing, on the Vigie; and that towards the end of March, they removed from the hills, and again occupied that post.

Fifth and fixth columns give the age and colour of the hair. It was thought neceffary to particularize them. Many determine much from the age; and the idea of temperament, with many, has weight; to diftinguifh

P.I. OF THE TABLE. 31

tinguish which, the colour of the hair we imagine to be the best general characteristic.

Seventh, eighth and ninth columns mark the periods of admission, discharge and death, from which you ascertain the duration of the disease favourable or unfavourable.

The patients who are neither marked as difcharged or dead, were removed from the Island.

The Second Part of the Table is divided into five columns.

First column marks the fituation of the island on which the men were placed.

Second gives the number of men in health originally on each of these fituations.

Third specifies the number of sick: Fourth, the number of relapses : Fifth, the number which died.

32 OF THE TABLE. [P.I.

By an attentive review of both Parts of this Table, and the different states of health of the inhabitants and natives, we may, with some degree of certainty, point out the healthy and unhealthy fituations.

TABLE.

33)

A B L

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When died. When dif. charged. March. 3 r Jan. ibid. ibid. 24 Feb. ibid. April 50 61 -9 March I admitted. 12 Feb. When 18 Jan. 19 26. 27 16 20 23. 25 2.9 bidi Colour of their Hair. 23 Dark 28 ditto 22 Black 24 Black 22 Black 29 Dark 22 ditto 29 ditto 21 Dark 27 ditto 22 ditto 24 Fair on which the Men were w The Situations of the Ifland 2 Morne Fortune A fixed. 0 ditto ditto ditto ditto. ditto ditto ditto ditto ditto ditto Difeafes. Dyfentery Dyfentery Remittent Remittent Dyfentery Remittent Dyfentery Diarrhœa Diarrhœa Ditto . Ditto Ditto Charles M'Ginnes **Davidion Peebles** Men's Names. Peter Thomfon Robert Simpfon William Brown 12 Robert Hillop II George Tate Thomas Beft Jordan. 10 Peter Irvine ohn Smith ohn Beft No. &c. 0 00 1

PART I. CONTINUED.

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When died.	27 May	
When dif- charged.	9 March IS April 31 31 31 31 31 31 31 32 33 35 36 7 May 30 19 30 30 30 30 19 30 19 30 19 30 19 30 19 30 19 30 19 30 19 30 19 30 22 19 30 22 19 30 22 10 30 22 10 30 22 10 30 22 10 30 22 10 30 22 10 22 10 22 10 22 10 21 21 21 21 21 21 21 21 21 21 21 21 21	2 - Jan -
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Men's Names.	 I 3 James Ranton I 4 John Shields I 5 Robert Clark John Brown I 7 George Davies I 8 William Maddox John Smith S 9 John Smith S 9 John Jordan William Reid William Brown Jofeph Waters Alexander Taylor Robert Hill Peter Irvine George Tate 	I Daniel Mackie

CONTINUED. I. PART

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When died.	22 May
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Colour their Hair.	21 Fair 30 Black 26 Fair 30 ditto 24 Fair 30 ditto 30 ditto 23 Black 23 Black 20 Red 20 Red 20 Red 20 ditto
The Situations of the Ifland on which the Men were 전 heir fixed.	
he Situations o on which the fixed.	South Side Cul de Sac ditto
The on fix	South ditto ditto ditto ditto ditto ditto ditto ditto ditto
Difeafes.	Remittent ditto ditto Dyfentery Tertian Remittent Quotidian Tertian ditto Remittent ditto Tertian ditto Tertian ditto ditto
Men's Names.	ce ce dfon an dd d d d d d ce
Men's	 John Fitchet John Fitchet Robert Brodi John Hutton John Benny William Frey Milliam Frey Alex. Richard Alex. Buchar Alex. Buchar John Gardin John Reid
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When died.	27 May 31 Jan.
When dif- charged.	19. April 15 19 ibid. 15 1. May 1. May 31 Jan. 17 17 17
When admitted.	29 March 19, April 31 19, 19 17 April 19 17 April 15 19 15 19 15 19 15 19 15 19 15 19 16 19 1 19 1 19 1 10 1 20 24 20 24 23 31 31 31 31 23 31 23 31 23 31 23 31 23 31 23 4 24 15 23 4 24 17 23
Colour of their Hair.	29 Black 28 Dark 34 Black 24 Black 24 ditto 21 ditto 21 ditto
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Difeafes.	Remittent Tertian Oyotidian ditto ditto ditto ditto Remittent ditto ditto ditto ditto ditto ditto ditto ditto ditto ditto ditto ditto ditto
Xo. Men's Names.	 John Reid John Reid Alex Taylor John Gate Daniel Mackie William French Mex. Richardfon James Wallace Alex. Buchanan James Wallace Alex. Buchanan James Wallace Alex. Warden Thomas Tudars Robert Grace Thomas Hogg John Little John Little William Reid

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PART I.	Difeafes.	Quotidian ditto ditto Remittent ditto Quotidian ditto ditto ditto ditto Remittent ditto	ditto Dyfentery
Harden Street	Men's Names.	 John Grant John Grant John Piekard John Piekard John Piekard George Davie James Bruce John Pickard John Little John Little John Little John Crant John Grant Samuel Chapman John Grant John Grant John Grant John Grant 	* George Davie ditto
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Difeafés.	Remittent Diarrhœa Remittent Dyfentery Quotidian ditto Quotidian Dyfentery Remittent ditto Uuotidian Remittent ditto Tertian Remittent ditto
Men's Names.	Jonathan Bell Thomas Hilton James Cunningham Thomas Adams Jofeph Brownlow James Falconer Alexander Scot Andrew Brown John Drummond George Robertfon Selba Crawford William Innes John Hederwick Alex. Mackie Robert Hill Robert Hamilton
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PARTI. CONTIUNED.

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PARTI. CONTINUED.

r July 28 May z June When died. admitted. charged. When dif-30 March 15 April 8 April 21 31 Jan. 19 May 30 April 15 May 23 Jan. When 26 282 of their Colour 21 Red 27 Dark Hair. 20 Black The Situations of the Ifland $\dot{\psi}$ on which the Men were \breve{K} fixed. South Side Carenage Bay Rock Battery ditto ditto ditto ditto ditto Quotidian Diarrhœa Difeafes. Remittent Remittent Tertian ditto ditto ditto ditto Ebenezer Brown Men's Names. * William Allen * William Carr Edward Rofs * John Dodds * Samuel Parr 2 John Hyde John Law -* ·oN Scc.

TABLE.

			Number of Deaths.	One One Two One Eight
			Number of Relapfes.	Ten Eleven Eight Five One Thirteen Seventeen One
	E.	1.	Number of Sick from each.	Eighteen Sixteen Sixteen Six Four Twenty-Eight Seventeen Three
(44)	B	R T]	Number of Men in Health, ori- ginally on each Situation.	Eighty-Six Seventeen Sixteen Thirteen Four Four Twenty-Two Twenty-Three Seven
	T	PA	The Situations of the Ifland on which the Men were fixed.	Morne Fortune South Side of Grand Cul de Sac South Side of Grand Cul de Sac Low Buttery, North Side Cul de Sac High Ground North Side Cul de Sac Carenage Town Ridge of Hills to Windward of Carenage and Vigie. Vide TABLE, Part I. South Side of Carenage Bay South Side of Carenage Bay Rock Battery, fituated at the Extremity of Carenage Bay

(45)

CHAP. IV.

Of the SITUATIONS of the Island on which the MEN specified in the TABLE were fixed; and an ENDEAVOUR to DETERMINE the MOST HEALTHFUL.

§ I.

Of the SITUATIONS on which the MEN were fixed.

THE first landing of the army was in Cul de Sac, on the South fide of the Bay; and forty Artillerymen with four field-pieces landed towards the North fide. They had to drag their guns up very fleep hills, and with all the quickness they were masters of, in order to join that part of the army to which they were detached: next day those men took their stations on the Vigie. The remainder of the artillery were disembarked.

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The

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The whole army now occupied the South and North fides of Cul de Sac, Morne Fortune, and both fides of Carenage-Bay. Those who were on the Vigie lay exposed to fevere rains, and had no change of linen for upwards of ten days. Indeed, the army in general was exposed to bad weather ; but having a communication with the transports, which those on the Vigie were deprived of, they did not so particularly feel it.

About the middle of January the army was much in the fame fituation. The Grenadiers, Light Infantry, Fifth' Regiment, and the forty Artillery who landed the first night, and were altogether on the Vigie, changed ground and took poffession of the ridge of hills to windward of Carenage. At this time we had Artillery as expressed in the TA-BLE, on both fides of Cul de Sac, on' Morne Fortune, and on the South fide of Carenage-Bay; and from the end of April,

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P.I.] OF THE SITUATIONS. 47

April, and during May, the Artillery were placed on the North fide of Cul de Sac, on Morne Fortune, and on both fides of Carenage-Bay. The men originally on the South fide of Cul de Sac were removed to the Morne; and those in the last months on the North fide of Carenage or Vigie, were the forty men formerly mentioned.

Soon after our first landing we had fome provision and artillery tents erected on the beach, at the bottom of Cul de Sac Bay.

We here remark, that when the men changed ground from the Vigie to the hills to windward of Carenage, and when they returned again to their first position, they were under the necessity of erecting huts every change they made.

§ II.

Of the MOST HEALTHY SITUATIONS.

IT is univerfally admitted, that every country has its healthy and unhealthy fpots; to afcertain which is a matter of importance to ftrangers, and even to natives. Soldiers, who are liable to be removed from one country to another, and who are fubject to every inconvenience of a change, ought, as far as the circumftances of war will admit, to be placed on those parts of an island, or country, which, from appearance, and the healthines of its inhabitants, are apparently the most falutary.

When active operations are carrying on, either in defence or attack, it is impoffible to attend to the healthy or fickly ftate of any place, every confideration giving way to fecurity or fuccefs; but the moment we are free from danger, the health of the army becomes the principal

P.I.] HEALTHY SITUATIONS. 49

principal object; and the first thing to be attended to, is the particular parts on which foldiers are to be fixed.

St. Lucia, like other islands, has fituations in which a remarkable difference of health and fickness is evident. To afcertain the healthy fituations, we shall take a view of the state of the soldiers and inhabitants on those parts we have described.

Of the SOLDIERS.

On Morne Fortune the troops were in general healthy. From eighty-fix artillery men on this fituation, we had only eighteen fick, and the most of these had been on service from the Morne : the death which happened here, was a case originally on the south side Cul de Sac. The thirty-fifth regiment, which was placed on the fouth fide of Cul de Sac, had before the middle of January more than fifty fick with fevers, and E

many'

OF THE MOST [P. I.

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many of them dangerous. From feventeen artillery on this fituation, we had fixteen, during this and the fucceeding month, in the hofpital, with a bad remitting fever. Those who were in the tents at the bottom of the Bay, had intermittent attacks, and one of our Gentlemen died of a fever on the ninth day, with putrid fymptoms.

The artillery and troops on the high ground north fide Cul de Sac were fickly, but not fo much as on the fouth fide: from thirteen men we had fix fick, and of thefe two died. The men at the Low Battery on the fame fide of Cul de Sac, were more unhealthy: we had every man fick, and loft two.

In Carenage Town, the four men placed there were all fick.

From the Vigie, or north fide of Carenage-Bay, we had at first no fick; but after the troops changed ground, to the

P. I.] HEALTHY SITUATIONS. 51

the high hills to windward of the town, in the months of February and March, we had many fick : feveral officers of the army died in fix or feven days illnefs, and numbers of men. The fifth regiment, which changed ground again to the Vigie, its original fituation, and our detachment of artillery, continued fickly; but in the end, the feverity of their difeafes abated, while those of other parts encreafed.

On the fouth fide of Carenage-Bay, two-thirds of our men were fick, and here we loft the greatest number. The Rock Battery of feven men had only three fick, and these were flight cases.

Upon the whole, the worft cafes were from the fouth fide, and the Low Battery on the north fide of Cul de Sac, Carenage Town, the Ridge of Hills to windward of it, and the fouth fide of E_2 the

OF THE MOST [P.I.

the Bay. On the contrary, the fewelt and flighteft cafes were from Morne Fortune, high ground north fide Cul de Sac, Vigie, and the Rock Battery.

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Of the INHABITANTS.

At Carenage Town the people are fhort-lived, have annual attacks of fever, yellow and meagre countenances, fmall legs, except when œdematous; in a word, their appearance is as if they were worn out by difeafe. At Gros Iflet the inhabitants live longer, are not fo fubject to difeafe, at leaft not of the fame degree or duration; they are more full in the face, and more hearty.

At Souffrir the inhabitants have chearful countenances, and are nearly in a ftate of health with those of Gros Islet; but this may be attributed to a better diet rather than situation. On the extensive

P. I.] HEALTHY SITUATIONS. 53

extensive plain to windward of this place very few difeases appear, and they are mostly intermittents : the countenances here of the women, of the children, and even of the men, have some degree of resemblance to those of the European; the semale has the red on her cheek, and the child has all the marks of health.

From this view of foldiers and inhabitants on different fituations, we imagine the following particular parts of the Island, in the state we have described them, are the most favourable for an European constitution : We shall place them according to their superior degree of healthines :

- 1. Windward of Souffrir.
- 2. Morne Fortune.
- 3. Vigie and Rock Battery.
- 4. Situations about Gros Islet,

E 3

54 HEALTHY SITUATIONS. [P. I.

In general, we believe those who refide in the Windward parts of the Island, and those parts not exposed to the noxious effluvia of marshes and woods, are in the most falutary places of abode.

END OF THE FIRST PART.

PART II.

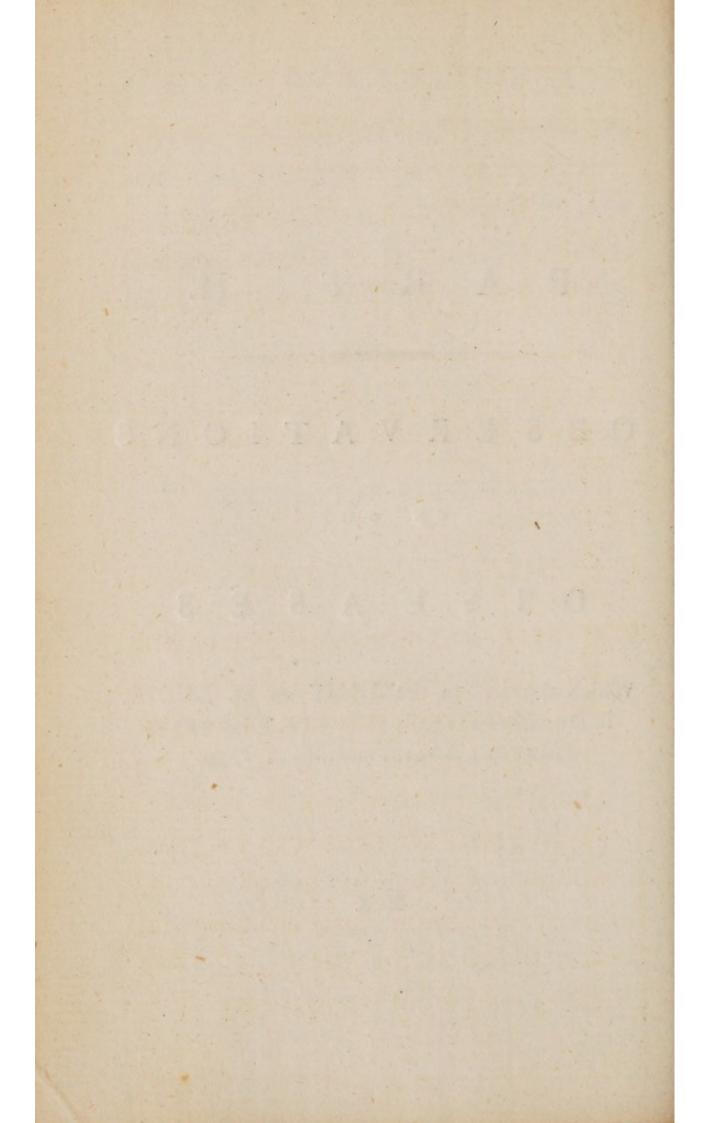
OBSERVATIONS

ON THE

DISEASES

Which appeared in the ARMY on St. LUCIA, in DECEMBER, 1778; JANUARY, FEBRUARY, MARCH, APRIL, and MAY, 1779.

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CHAP. I.

.

Of the HISTORY of the DISEASES which appeared in the MONTHS Specified.

*** We divide the Difeafes into INTERMITTING and REMITTING FEVERS, and DYSENTERY. We fhall narrate the Manner of Attack, and defcribe the Symptoms of each; then fubjoin fome General Remarks.

§ I.

Of the HISTORY of the INTERMITTENT.

HE intermittent fever appeared in its various types; quotidian, tertian, and quartan. The quotidian was the most frequent, and we had only one or two cases of the quartan.

Patients were attacked with languor, proftration of strength, and shivering, followed by heat; and an universal sweat terminated the paroxysm. The shivering went off as the heat encreased; but

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but the languor and proftration of ftrength continued until a perfect folution of the fever took place; and even in the apyrexia, or interval of attack, fome degree of thefe was obfervable, particularly in the quotidian.

A yellowness of the skin, costiveness, and a high-coloured urine attended, and these were more evident in the quotidian than tertian.

The paroxyfms were, in general, perfect, but of different durations, efpecially in the quotidian, which was often a prelude to the remittent fever, and then the attacks became irregular and imperfect.

§ II.

Of the HISTORY of the REMITTENT.

THE remittent fever was fometimes the confequence of an intermittent, particularly if neglected on its first attack; 3 but

P.II.] THE REMITTENT. 59

but we generally found this fever making its appearance in a different manner, and, in its turn, it often ran into the intermittent.

Languor, proftration of ftrength, chillinefs, livid colour of the lips, a particular dejected look, and naufea, were the firft marks of this difeafe; and thefe were foon followed by anxiety, headach, pain of the back and loins, heat, thirft, often a vomiting, and an encreafe of the naufea, languor, and proftration of ftrength.

After the first remission, which generally happened towards morning, all the preceding fymptoms encreased, with the addition of a foul tongue, a yellowness of the eyes, and, in some cases, an universal tinge, delirium, urine in small quantities and very high-coloured, imparting an offensive smell, often a difficulty in voiding it, which sometimes came to a perfect stoppage.

The

60 OF THE HISTORY OF [P. II.

The pulle, in the first states of this fever, was seldom encreased, or in any unnatural seeling, but was considerably altered in the last mortal stages of the disease.

A remiffion was perceptible from an abatement of the feverity of fymptoms, a gentle moifture on the fkin, a free difcharge of urine, and a diminution of the yellownefs.

A comatofe difposition, remarkable dejection, coldness of the skin, partial cold sweats, hiccup, involuntary stools, *fubfultus tendinum*, loss of speech, &c, were certain signs of danger.

An eruption about the mouth and ears, with a fwelling of the upper lip, either in this or the intermittent, happening when the fever was going off, was a certain fign of recovery; but if it appeared when dangerous fymptoms were prefent, it greatly affifted in the unfavourable prognoftic,

When

P.II.] THE DYSENTERY. 61

When flies became numerous about a patient's bed, in any period of the difeafe, and adhered to his lips and eyes, without his being fenfible of their attachment, a certain mark of danger was exhibited. Indeed, thefe infects never made their appearance in any number, until danger, by other figns, was too apparent.

§ III.

Of the HISTORY of the DYSENTERY.

THE dyfentery, in its attack, progrefs, and terminations, refembled that difeafe as it appears in the army in America, except more remarkably affuming the form of the intermittent and remittent. A fever often preceded the proper dyfenteric fymptoms, and was always coeval with them, though varying in its degree of feverity.

When

62 GENERAL CONTINUATION [P. II.

When we left St. Lucia, very few dyfenteries had made their appearance, the common feafon not being advanced.

§ IV.

GENERAL CONTINUATION of the HISTORY.

UNTIL the latter end of April, the fevers, for the most part, terminated in death about the feventh day; and when the termination was favourable, ran on to about the fourteenth, though we had fome cases which continued to the twentieth. After this period, the fatal termination was from the third to the feventh day; and those who died on the third, went off fuddenly-were at once feized with a convultive motion, (vide CafeVI.) loss of speech, cold extremities, burning skin, which assumed in many places a dark livid colour, breath fœtid, in fome a foaming at the mouth; and

P. II.] OF THE HISTORY. 63

and they generally finished existence half an hour or a little more after the convulsive attack, which always ceased some minutes before death.

We cannot be very exact about the length or days of the difease, some patients coming in to us with all the marks of fever; and respecting its continuance, we could not trust to their report so much as to found an observation.

In May, the cafes of fever which terminated fatally on the feventh, were attended with a loofenefs; and twentyfour hours before death, the ftools were very fœtid, and ran involuntarily. In moft of the fatal cafes which terminated on the feventh, a hiccup appeared about the fifth day: this, however, occurred in cafes which ended favourably; but in thefe cafes the power of medicine was more difcernible. The cafes which terminated fatally on the third, had no yellow

64 GENERAL CONTINUATION [P. II.

yellow appearance on the fkin; but those on the seventh had a deep tinge all over their surface. In several fatal cases where blisters were applied, the discharge was black and setid; this particularly happened in the month of May: earlier the discharge was less feetid and yellow. In the later months, the appearance of putrefaction, both before and after death, was more rapid.

We had cafes that recovered which were of a deep yellow tinge. One was peculiar (vide Cafe V.): a fudden and univerfal yellownefs appeared, and in thirty-fix hours it went off by fome loofe ftools, and a large difcharge of thick and high-coloured urine. We had four cafes of fever which run on from the fourteenth to the twentieth day, and continued afterwards in the hofpital fome months; one of them was fatal (vide Cafe IV.), and three recovered.

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P. II.] OF THE HISTORY. 65

In general, the cases of a fatal termination had very indiftinct remissions. Those which proved mortal on the third, had no marks that we could discern of a remission at all; but the cafes which recovered had fenfible remiffions; though fome, at the beginning, affumed the appearance of a continued fever.

In the early months, pectoral complaints followed the tedious fever; and in the later months, these became more troublesome, and were often conjoined with a dropfical disposition. Some had a diarrhœa; others, a costiveness and a looseness alternately : a weak state of the ftomach with flatulence was likewife an attendant. Sometimes a swelling of the face, feet and hands, and even of the whole body, took place, more especially in those who had quotidians for a length of time-Any of these circumflances made the recovery very tedious and

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66 OF THE CAUSES [P. II.

and uncertain. In the early months we feldom met with relapfes; but in the later months, they were frequent, and the recovery was always flow, being generally attended with fome of the preceding appearances.

CHAP. II.

Of the CAUSES of the DISEASES described.

THE difeafes of the Weft-Indies are generally fuppofed to arife from heat, cold, moifture, and the effluvia or vapor of marshes; a combination of which can often be traced, and indeed are generally together in different degrees, as causes of every difease with which Europeans are affected. The operations of these causes are induced and rendered

P.II.] OF THE DISEASES. 67

rendered more active in their effects, by] circumftances of conftitution, living, and employment.

We have formerly observed, that part of the Artillery, the Grenadiers, Light Infantry, and Fifth Regiment, were on their first landing, and for some time after, exposed to fatigue, constant rain, changes from heat to cold, and they had no proper 'nourishment. When these troops removed from the Vigie to the ridge of hills to windward of Carenage, they became very fickly, and had many deaths; but in this fituation, to the former causes of difease were added the humid vapor from extensive woods, and the effluvia of marshes to windward of them. On changing ground again to the Vigie they became lefs fickly, and their diseases proved less fatal.

The men who were placed in the direction of the marshes at Carenage and Cul de Sac were most unhealthy, and had

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those

03 OF THE CAUSES [P.IL.

those difeases which terminated so quickly in death; while those men who were on Morne Fortune and Rock Battery were more healthy, and the difeases of a milder aspect and less mortal.

From these circumstances we must fuppose, that although heat, cold, and moifture, in certain degrees and combinations, may produce difeases of confiderable severity, they were not the common causes of the difeases we have defcribed; but, that they were chiefly the confequence of marsh effluvia. It is evident, however, that the former causes operated so far as to induce and facilitate the action of these effluvia, and to make them more universal and active in their effects.

The duties of fatigue to which foldiers in every part of the army were neceffitated to comply with, aided in producing those discases with which they were aff. Acted. They had their own huts

P.II.] OF THE DISEASES. 69

huts to erect, and when finished, they were not a shelter from the rain. Beside this work, they were employed in raifing batteries, in carrying up provisions to the Morne, in making and levelling a road from it to the Carenage, and, in short, they were subjected to every species of hard labour. Mornings and evenings were not set apart for duties of this kind, but the whole day, even when the fun was in his meridian violence. That these things greatly affisted the natural causes of the Island, was evident from those who were engaged in them having the most frequent and speediest deaths.

It has been generally remarked, that the effluvia of marshes are most active when the water drains off and the earth appears, which certainly was the cafe in St. Lucia. The greatest part of the regular intermittents we had happened when the rains were most frequent, and before

70 OF THE CAUSES, &c. [P. II.

before the stagnating pools discovered their bottoms; and the most dangerous remittents appeared when the marshes had no water, but a slimy matter on their surface.

Upon the whole, the different flates and combinations of the caufes we have enumerated, the difference and peculiarity of conflictution, and the order obferved in the feafons, will explain the appearance of the three general difeafes we have defcribed.

CHAP.

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CHAP. III.

Of the TREATMENT of the DISEASES described.

§I.

Of the TREATMENT of the INTERMITTENT.

QUOTIDIAN.

I N the absence of the paroxysm we exhibited a solution of tartar emetic, in small quantities, and at short intervals, to excite vomiting. After this was effected, we generally gave it in smaller doses, in order to produce a few stools; but this depended much upon the state of the patient's belly, and on the continuance of the difease. If he. was apparently much weakened and had a loofe belly, which was fometimes the case before they were sent to us, we deferred the tartar emetic, and gave a small dose of ipecacuan, which feldom produced stools.

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We always found it neceffary to give an emetic at the commencement of the difease, and often during its progress. After the operation of the emetic, we immediately gave the bark, in as large doses, and in substance, as the stomach could bear. This method was profecuted even though we had only time to throw in one or two doses of the bark before the period of the next paroxyim; at the termination of which we begun again : and for the most part we put a ftop to the difease in two or three paroxyfms from the first exhibition of the bark. If the bark was not given in this manner, and in very large dofes, we often found our fever assume a more dangerous form-the remittent.

TERTIAN.

THE tertian was treated in the fame manner as the quotidian, only we took more time in clearing the flomach and P. II.] THE INTERMITTENT. 73 and bowels, and in attending to particular fymptoms.

In the paroxysm of both, after the cold stage began to disappear, we always gave a combination of tartar emetic and opium in solution : opium was given alone, if the ftomach was very irritable : and to a careful exhibition of thefe in this state of the disease, we attributed the fuccess we met with. The feverity of symptoms abated, the duration of the paroxyim fhortened, and the intermission made longer and more perfect, were the constant effects of this method; and we found them more certain, if the ftomach permitted the combination of tartar emetic.

The diet of our patients, in the prefence of fever, was thin gruel; and towards its termination, was made grateful by the addition of a little wine: in the intermifion, broths, thick gruel, and wine in fmall quantities, with water or by 74 OF THE TREATMENT OF [P. II. by itfelf, were allowed: in the cold ftage, liquids were generally avoided; but on the approach of the fweating period, free dilution was recommended, as lemonade, toaft and water, barleywater, &c.

§ II.

Of the TREATMENT of the REMITTENT.

THIS fever required the earlieft exhibition of medicine; for whether it appeared as a diftinct difeafe immediately in its own form, or as preceded by the intermittent, it was always attended with danger; and two or three hours delay proved fatal; but this more particularly happened in the first cafe of the difeafe. In the History we observed, that cafes terminated in death three or four days from the attack; and in these, tho' the remissions were scarce differsible, there

was

P.II.] THE REMITTENT. 75

was fo much refemblance in other refpects, as induced us to comprehend them under the fame general character, remittent.

If the remittent had been preceded by an intermittent, where evacuations were used, and the disease of some continuance, we feldom found it necessary to repeat an emetic or laxative. When any of these operations were wanted, the smallest quantity of an antimonial or ipecacuan was given, and common injections were used. Our chief attention here was to procure a diffinct remission, or, if possible, an intermission. The most effectual means for this purpose we found to be nauseating doses of tartar emetic; and at the time of the ufual exacerbation of fever, an opiate by itfelf, or combined with an antimonial, according to the state of the stomach, in the fame manner as after the cold stage of an intermittent. If the febrile symptoms

76 OF THE TREATMENT OF [P. II.

toms ran high before the remiffion was expected, a large blifter, applied to the back, particularly if any degree of delirium was prefent, greatly affifted to bring about that defirable event.

When a remission was effected, we directly threw in bark, in a form we thought most eligible for the state of the stomach, and in quantities as it would bear. If the interval allowed us to give only two or three drachms, or even lefs, in the next exacerbation the good effects of it were evident; and more fo in the fucceeding remission, which was longer and more perfect. In this way we continued until we removed the fever, or brought it into the intermittent form, and then we observed the treatment as directed under that difease. But if our attempts failed, and we had the greatest reason to dread the termination, we continued the bark, without regarding the existence of fever, and

P.II.] THE REMITTENT.

and added to it the use of fnake root. If the stomach could not retain the bark, we gave a strong infusion of fnake-root alone, and ordered wine, in proportion to the state of the disease. By this method, we have often altered the dangerous appearance, and given a favourable turn to the complaint.

If the remittent fever appeared in its own form, and was not preceded by an intermittent, we gave the tartar emetic in doses, to produce vomiting and purging, taking care to encourage the latter no farther than to procure an effectual discharge of the contents of the intestines, and not to weaken the patient. If the exacerbation fucceeded thefe operations, we generally gave an opiate, and, some time after, re-assumed the tartar emetic in nauseating doses, frequently encreasing the quantity fo as to produce a gentle rejection of the stomach; and then, in every other respect,

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78 OF THE TREATMENT OF [P. II.

we proceeded as formerly directed. But here, as the danger became fooner apparent, we were more anxious, by every poffible means, to throw in a proper quantity of the bark; and when it was rejected by the mouth, we attempted it in clyfters: but we feldom found the good effects, as the difeafe, in general, in this ftate, was beyond the power of medicine.

Towards the termination of fever, or in the laft ftages of the difeafe, we found, when the patient was much reduced, the beft effects from wine. When bark was rejected, and every bad appearance prefent, we have been fenfible of benefit from this valuable article; but it was given from one to two pints in the courfe of twenty-four hours, in fmall dofes, and at proper intervals.—We are convinced many, by a proper use of it, have escaped death. However, we are aware, that it has been imprudently used

by

P. II.] THE REMITTENT.

by a too early exhibition, and by being given in too great quantity. The continuance of the difeafe, the degree of weaknefs and danger, regulated us; and we had fome regard to the proportion ufed by the patient in a ftate of health.

In every ftage of the difeafe, the patient was allowed weak wine and water, gruel, acidulated water, and chamomile tea: they generally preferred acidulated water, but many were fond of the chamomile tea, or an infufion of the wood of the fimarouby. When they wifhed for fomething more fubftantial, panada, fago, thick gruel, and roafted fruit, were permitted them. For fome time after the appearance of recovery, they had no animal preparation, except fmall quantities of very thin broth.

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So OF THE TREATMENT OF [P. II.

Of the TREATMENT of the DYSENTERY.

WE always begun by an immediate difcharge from the ftomach and bowels; to effect which, we found a folution of tartar emetic to be the beft medicine. However, if the patient was much reduced, or had been two or three days ill before we faw him, we generally preferred fmall dofes of ipecacuan, and a weak folution of Glauber or cathartic falt: after the operation of thefe medicines, we gave an opiate, which we often repeated in two hours.

Next morning, we gave a combination of tartar emetic and opium, fometimes in a folid, but oftener in a liquid form: we have given to the quantity of three or four grains of opium in this way, in the courfe of the day, and the general confequences were large ftools;

an

P. II.] THE DYSENTERY. 81

an abatement of the griping and tenefmus, and a remifion of the febrile fymptoms. These good effects were more certain, if the medicine was given fo as to excite nausea, which we always attempted and endeavoured to maintain.

At the commencement of the treatment, we often used fomentations to the lower extremities and to the abdomen, which we continued until a remission of the pain was effected. When the griping or pain of the belly was very severe, we have derived good effects from the application of volatile liniment and blifters.

When this difease affumed the intermittent form, we treated it in much the fame manner as that difease; and when it put on a dangerous appearance, our principal dependance was upon the bark.

As aftringents, we have tried the different preparations of earths, infusions and decoclions of simarouba and bark;

G

but

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but we found opium to be the best, affisted by diet, air, and cleanlines.

We formerly obferved in the INTRO-DUCTION, that we meant to defcribe this difeafe in very general terms. To this refolution we have certainly adhered. However, we fhall, on another occasion, have it in our power to give a particular discussion of this subject, from Observations and Cases collected in America.

§ IV.

Of the TREATMENT of PARTICULAR SYMPTOMS.

IT will be observed, that we have only mentioned the general mode of treatment, and have not particularised fymptoms, which often make a material variation in the practice. We shall here briefly take notice of several appearances which were troublesome, often dan-

F. II.] PARTICULAR SYMPTOMS. 83

dangerous, and required the most delicate attention. These are,

I. VOMITING,

2. LOOSENESS,

3. COMATOSE DISPOSITION,

4. HICCUP.

I. VOMITING.

· Vomiting was very often met with in the remittent fever, and sometimes in the quotidian. Beside preventing the exhibition of medicine, it was always accompanied with pain, and an encrease of every attendant symptom; and when it occurred after the difease had been of some continuance, it was a constant mark of danger.

When vomiting appeared at the commencement of the difease, it generally went off by encouraging it either with chamomile tea, or small doses of an antimonial, or a few grains of ipecacuan. If costiveness attended, a stool was procured

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cured by clyfters. If this fymptom continued, or appeared in a later period of the disease, with pain in the situation of the stomach or liver, a blister applied the whole extent of the epigastric region, was in general attended with very good effect. This application was affifted by the use of saline draughts, given in the act of effervescence; or, as Dr. Mackittrick observed, a solution of an alkali, followed by fome diluted vegetable acid. We think that we have feen fome advantage from a small quantity of opium, abstaining for some time after from liquids. When vomiting fucceeded the use of the bark, it was for a while omitted, or tried in a different form. In cases of this kind, an opiate given in a folid state, about an hour or two before we again begun the bark, feldom failed to prevent it. We have fometimes found it necessary to encourage this vomiting, a little before we gave the opiate.

In

P.II.] PARTICULAR SYMPTOMS. 85

In those cases of quotidian or remittent fever which were attended with an iirrtable state of the stomach, emetics (either ipecacuan or antimonials) were given with the greatest caution.

2. LOOSENESS.

This fymptom either arofe from a neglected state of the belly at the beginning of the disease, or from a particular weakness of the intestinal canal; or from a mortification of some part of it; or from a general dissolution (if we may use the expression) of fluids and solids.

If evacuation was neglected at the beginning of the difeafe, or the belly allowed to be coffive for fome days, a loofenefs appeared, and often became dangerous. If the patient was not much weakened, it was cautioufly encouraged by thin drink; but if the difeafe was too far advanced, and danger threatened G_3 from

\$6 OF THE TREATMENT OF [P. II.

from its continuance, we have found a free use of opiates combined with bark to succeed better than any other thing we tried. When a looseness was spontaneous, it was always a mark of danger, and hurried us to throw in as much bark as was possible: and here we allowed wine with spices.

3. COMATOSE DISPOSITION.

A Large blifter, applied over the whole fcalp, immediately on the appearance of the comatofe difpofition, has checked its progrefs, and given a favourable change to the difeafe: at the fame time, if the degree of danger was great, another blifter was applied to the back, or one to each ancle; and internally we gave a bolus of camphor, from five to eight grains, in a ftrong infufion of fnake-root, or in a thick folution of extract of bark, every two or three hours.—This method of treatment was

P. II.] PARTICULAR SYMPTOMS. 87

generally profecuted in the last stages of fever, when *fubfultus tendinum*, delirium, and hiccup, were prefent; and, though feldom, yet we could trace fome advantage.

4. HICCUP.

We have tried the effects of mulk in large doles in hiccup, but never obferved any benefit; and we have given it, joined with camphor, with fimilar fuccefs. When this fymptom appeared early, a gentle emetic removed it; and when it was united to other fymptoms of danger, the bark was the only medicine from which any good effect was derived.

§ V.

Of the TREATMENT of APPEARANCES, the EFFECT of the DISEASES described.

THE appearances, or, more justly, the diseases, which often succeeded those ss OF THE EFFECTS OF [P. II. we have pointed out, may be reduced to,

 PECTORAL COMPLAINTS,
 HYPOCHONDRIAC AFFECTION,
 ABDOMINAL SWELLINGS,
 ŒDEMATOUS SWELLINGS IN THE LOWER EXTREMITIES,
 A WEAK STATE OF THE STO-MACH, WITH FLATULENCE,
 COSTIVENESS,
 DIARRHŒA.

These complaints were generally in patients whose difease had been of a long continuance, as in the fever which ran to the fourteenth or twentieth day: they were likewise the followers of a tedious intermittent. As these symptoms often appeared distinct, we shall confider each of them. Sometimes, however, two or three of them were seen together: for example, the weak state of the stomach and bowels, the hypochondriac affection, P. II.] THE DISEASES. 89 affection, and the costiveness, were frequently affociated.

I. PECTORAL COMPLAINTS.

Thefe were very frequent. The application of blifters, fmall dofes of ipecacuan, occafionally repeated, with gentle opiates, in the form of Dover's powder, or antimony and laudanum, a milk and vegetable diet, and gentle exercife, were found to be the best method to remove thefe complaints.

2. HYPOCHONDRIAC AFFECTION.

A Careful attention to prevent the patient from being by himfelf, a change of fituation, exercife, chalybeate preparations, and cold bathing, if no topical affection existed, were the means we found most successful.

3. ABDOMINAL SWELLINGS.

These either proceeded from flatulence, from an enlargement of the liver, 90 OF THE EFFECTS OF [P. II.

or from water : if from the first, we refer to the treatment of a weak state of the stomach.

On examination, if we found the liver fenfibly enlarged beyond the natural fize, accompanied with pain on preffure, we begun the removal of it by the application of a blifter, and gave neutral falts to keep the belly gently open. When the pain went off, we anointed externally with a scruple of mercurial ointment, morning and evening, which we thought more effectual than calomel internally, although this medicine was more commonly used. During this procedure we continued the use of neutral falts, varying the quantity as occasion required, to procure a lax state of the belly, and promote urine. If the fwelling of the abdomen was evidently occafioned by water contained in its cavity, we adopted a different practice; but for this, and the treatment of (4) œdematous

P. II.] THE DISEASES. 91

matous fwellings in the lower extremities, we refer to Obfervations on Dropfy as occurring in the Army, which are intended for another occasion, and may soon make their appearance.

5. AWEAK STATE OF THE STO-MACH, WITH FLATULENCE.

Chalybeates, mineral acids, aromatics, bitters, abforbents (among the beft of which we found to be lime-water, or a weak folution of falt of tartar, though magnefia was often ufeful), abftinence from vegetables, exercife and a free air, were the most certain means of restoring tone to the stomach, and removing the statulence. Infusions of chamomile, or of the wood of simarouba, were found to be attended with good effect in complaints of this kind.

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6. COSTIVENESS.

Aloetic preparations, folutions of alkaline falt, and a laxative diet, foon procured a regular state of the belly.

7. DIARRHCEA.,

This was a very troublesome consequence of disease, and often baffled every effort of medicine. We have tried all the common remedies, but in general without any good effect. Opium freely used was found to be the best aftringent : we have given it to the quantity of three or four grains a-day, and we are convinced of having faved many valuable lives by this medicine. Until I was obliged to acknowledge the good effects of opium from experience, I had my doubts about its utility. Dr. Clifton, a Gentleman well known in St. Christopher for his medical abilities, confirmed me in the idea I had formed

P. II.] THE DISEASES.

formed of its efficacy, by a candid account of the happy advantages he had received in this difeafe from its exhibition. Though we have continued giving opium for weeks, we never met with any bad effect or any difficulty in difcontinuing it. Milk, ftarch gruel, and preparations of fago, were found to be the beft articles of diet.

CAMBERS IN A STREET

19Vol & Mile (H. S)

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CHAP. IV.

A DESCRIPTION of several CASES seletted from the TABLE, in the Order observed in the HISTORY of the DISEASES.

§ I.

CASES of the INTERMITTENT.

CASE I.

JOSEPH WATERS*, Admitted the 6th of FEBRUARY, 1779. Has been four Days ill.

A FFECTED with a fever of the tertian ftamp. Coftiveness, and a yellowness of his eyes and over the furtace, are the only particular appearances. He expects a return of his paroxysm to-day about ten o'clock A. M. To have, on the disappearance of the cold stage, the following draught, and

* Vide TABLE, Part I.

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in the evening, after the paroxyfm is over, half an ounce of Glauber falt, diffolved in a large proportion of water, and taken at intervals.

 (a) ТНЕ DRAUGHT.
 Take of Tartar Emetic, half a grain; Liquid Laudanum, thirty drops; Common Water, one ounce.

The Tartar Emetic is to be diffolved in the Water, then the Laudanum added, and the whole mixed.

7th. As expected, he had yesterday a return of fever. The paroxysm commenced about half past ten A. M. The first stage of it continued one hour. As directed, he took the draught, which facilitated the fweating stage, and abated the severity of symptoms. Before four o'clock P. M. there was a perfect intermission of fever, and he took his salts, which procured him three large stools, and a plentiful discharge of urine. This morning he has no particular complaint: the yellowness of his eyes is dimi-

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diminished, and his tongue is moist and clean. He is ordered one drachm of powdered bark in a glass of chamomile tea every hour, and to continue it until next morning. One pint of weak broth and one glass of wine are allowed for dinner.

8th. He has taken ten doses of bark; had a good night; belly is regular; and this morning he feels no mark of a return of fever. The bark to be omitted; and if the paroxyim keeps off, to have the fame allowance for dinner to-day as yesterday, with the addition of another glass of wine.

9th. No return of paroxyim yesterday, and this morning is free of complaint. He is ordered to take the fame quantity of bark as before, but only once in two hours, and to be omitted next morning by ten o'clock.

11th. Continues free of fever; belly regular; good appetite. Medicines to be

P. II.] THE INTERMITTENT. 97

be difcontinued, and to have for dinner three ounces of fresh meat, one pint of broth, and two glasses of wine.

17th. Apparently in good health, and was difcharged.

This man changed his fituation from fouth fide Cul de Sac to Morne Fortune, and he had a quotidian attack on the 20th of March.

CASE II.

GEORGE INGLIS*, Admitted the 24th of FEBRUARY. Has been three days ill.

A tertian intermittent, whose paroxysms are severe and of long continuance, forms his disease. The only thing remarkable is an uneassing in the epigastric region, a bad taste in his mouth, and costivenes.

In the beginning of this month, he was affected with a head-ach, which went

* Vide TABLE, Part I.

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off in two or three days by gentle evacuations.

He had a paroxysm yesterday, which commenced about eleven o'clock A. M. The cold stage continued one hour, the hot four hours, and the fweating stage terminated the fever two hours after.

(b) ANTIMONIAL SOLUTION. Take of Tartar Emetic, fix grains; Common Water, one pint. The Tartar Emetic to be diffolved in the Water.

Of this folution he is ordered to take one ounce every half hour until vomiting is produced, which he is to encourage by an infusion of chamomile. If he has no stools two hours after the operation of the emetic, he is directed to take half an ounce of the folution every two hours until one or two are procured.

25th. Eleven o'clock A. M. The paroxysm commenced to-day about nine : the shivering stage is now over; fe-

vere

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P. II.] THE INTERMITTENT. 99

vere head-ach, parched tongue, and intenfe heat, characterife the hot period. He is to take immediately the draught (a), which is to be repeated an hour after, if the feverity of the fymptoms does not abate; and when the fweating ftage approaches, he is defired to drink freely of any cool diluting liquid. The antimonial yefterday produced vomiting, and gave feveral large ftools: the matter thrown up was of a bitter tafte, flimy, and of a dark yellow colour.

26th. The fever terminated yefterday fooner than was expected. About half an hour after taking the draught, the intenfe heat and head-ach abated, and a moifture on the furface took place; in half an hour more the fweating ftage was perfect: the draught was not repeated, and about three o'clock P. M. he found himfelf chearful, and free of fever. He has flept found, had one ftool this morning, feels pretty H 2 well.

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well .- Ordered to begin directly and take two drachms of bark every hour, if his ftomach can poffibly retain it; if not, the dose to be diminished, and taken at longer intervals. To have fome broth and a glass of wine for dinner.

27th. Twelve o'clock meridian. No return of fever this morning, nor any mark of its approach. He took yesterday fix doses of bark, and as he is prefently free of fever, and being two hours after its usual appearance, he is directed to begin and take it in the fame manner, and to have yesterday's allowance for dinner.

28th. Free of complaint; belly regular; appetite returning, and had no return of fever. The bark to be difcontinued to-day, but to take to-morrow morning, at fix o'clock, one drachm, and to repeat it every hour until ten. To have a little meat and two glaffes of wine for dinner.

MARCH

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MARCH 1. Has taken his bark; no appearance of fever; medicines to be entirely difcontinued. The fame diet to be allowed.

8th. Was difcharged.

CASE III. WILLIAM REID*, Admitted the 6th of FEBRUARY. Has been fix Days ill.

A quotidian.—Anxiety, proftration of ftrength, and an uneafinefs in the epigaftric region, are the most remarkable fymptoms.—Belly bound. He had a paroxysm yesterday, about nine o'clock, which continued till near evening. It is now the hour mentioned, and he has feelings of an approaching fit. After the commencement of the hot stage to have the draught (a), and to be allowed a free use of lemonade.

7th. Seven o'clock A. M.-The paroxysm attacked him betwixt ten and

* Vide TABLE, Part I.

eleven

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eleven o'clock yesterday forenoon; was less fevere than usual, and its periods more diftinct and regular; the intermiffion is rather imperfect, a flight headach continuing; his tongue foul, but skin cool, and pulse regular. He is ordered immediately ten grains of ipecacuan, and in the paroxysm to have the draught as directed yesterday.

8th. Eight o'clock A. M. The paroxysm appeared yesterday about the fance hour as in the day before; the head-ach and heat were not fo intense; the fweating ftage came on fooner, and there is a good intermission. He is directed to have three drachms of bark immediately, and after the paroxyfm, to take a weak folution of Glauber falt, not having had a stool for two days past. The emetic yesterday operated, and threw off a great quantity of bilious matter.

9. Eight o'clock A. M. Had a return of the paroxyim at the usual hour, of fhorter duration and more fevere; he took

P. II.] THE INTERMITTENT. 103

took the draught as before; the bark was retained, and the falts procured him two large ftools in the evening. Ordered half an ounce of bark immediately, and after the paroxyfm a little weak broth and a glafs of wine.

10th. Noreturn of paroxysm yesterday, and he feels nothing of its approach today. The same quantity of bark to be repeated; and one pint of broth and two glasses of wine for dinner.

11th. The fever has not made its appearance; he continues weak, but free of any particular complaint. He is directed to take two drachms of bark this morning, and the fame allowance for dinner continued.

12th. Appetite returning, belly regular; no mark of a return of fever. Bark to be omitted. Diet as before.

14th. Allowed four ounces of meat, one pint of broth, and two glaffes of wine at dinner.

H 4

17th.

CASES OF

[P. II.

17th. So well as to be difcharged; but on the 28th he relapfed.

MAR. I. The paroxyfms are now more irregular and more fevere than at firft; the head-ach in the time of the paroxyfm is intolerable; tongue very foul; and the uneafinefs in the epigaftric region is more remarkable than formerly; to thefe a conftant languor and dejection are added. No ftool for two days paft. He is directed to take half an ounce of the antimonial folution (b) every halfhour, until it excites vomiting, and in the paroxyfm to have the draught (a).

2d. Seven o'clock A. M. The emetic operated, and he had two ftools. The paroxyfm appeared about an hour after the vomiting; the fweating ftage came on earlier, and the termination was more perfect. From his prefent feelings the fit is expected more early to-day. After the termination of fever he is defired

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fired to take two drachms of bark every hour in a glass of wine and water.

3d. Eight o'clock A. M. It was eleven o'clock before the fever returned yefterday; in the paroxyfm he took the draught, which leffened its duration and feverity; the intermiffion is more perfect. He took two dofes of bark laft night, and one this morning: he is to take another in an hour, and then to difcontinue it until the evening.

4th. Eighto'clock A. M. The fame hour yefterday he had a flight return of fever; his tongue now is clean and moift; belly regular; appetite returning. Medicines to be continued, and to have fome broth, and two glaffes of wine.

5th. No return of paroxyfm this morning, nor any particular complaint. He is ordered to take three dofes of bark in the courfe of the day, and to have his broth and wine.

7th.

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7th. Every appearance of fever gone. He feels a hardnefs and fwelling of his belly, and has been without a ftool for two days : he took no medicines yefterday. Ordered this morning the following bolus, which is to be repeated in the evening :

Take of Tartar Emetic, one grain; Calomel, four grains; Lenitive Electuary, one fcruple: To be intimately mixed.

8th. The bolufes procured three large ftools, and the fwelling of his belly is entirely removed. Medicines are to be omitted, and he is to have for dinner three ounces of meat, with the ufual quantity of broth and wine.

18th. Has been free of complaint fince the laft report, and he is now in fo much ftrength as to be difcharged.

§Π.

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§ II.

CASES of the REMITTENT.

CASE IV.

THOMAS TUDARS*, Admitted the 20th of JANUARY. Has been three Days ill.

ANXIETY, and a remarkable proftration of ftrength, a parched tongue, vomiting, coftiveness, head-ach, pain of the back and loins, encreased heat, and an irregular pulse, characterise his difease.

These fymptoms were preceded by shivering, and the common fore-runners of fever; and they have continued in nearly their present state, though always in the morning there is a sensible remission.

* Vide TABLE, Part I.

Saline

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Saline draughts in the act of effervefcence are ordered, and a blifter to be immediately applied over the ftomachic region, and his legs occasionally fomented.

21st. The vomiting has ceased, and there is an apparent change for the better, by an alleviation of every fymptom ; the head-ach however continues--no stool .- Injections of warm water with a little falt and oil, to be thrown in until one stool is procured; the fomentations to the lower extremities to be continued, and the faline draughts repeated.

22d. A very uneafy night; restles, with fome degree of delirium. This morning the head-ach is fevere, tongue parched, great thirst, intense heat, and an irregular quick pulse. He retains his drink ; had two ftools by injection yefterday afternoon, but none fince; urine very

P.II.] THE REMITTENT. 109

very high-coloured, and in fmall quantity. The injections to be repeated in the afternoon, if he has no ftool before that time, and the fomentations continued. Half an ounce of the following preparation is to be given every hour, in order to excite and maintain a gentle naufea; barley-water or toast and water for common drink, taking care to give small quantities at a time:

(c) Take of Tartar Emetic, one grain;
 Saline Julep, eight ounces:
 To be formed into a folution.

23d. Yesterday afternoon he had two ftools. The antimonial and fomentations excited a gentle diaphoresis, and in the evening he was apparently better: the symptoms, however, returned with encreased violence towards midnight, and this morning every appearance is alarming; a comatose disposition with infensiblity 110 CASESOF [P.II.

fibility prefent, and his pulfe exceedingly low and feeble. The fomentations are difcontinued, and a large blifter is to be directly applied, to extend from the nape of the neck to the first lumbar vertebra : the following medicine is to be given every two hours---wine and water for common drink.

Take of Camphor, three grains;
Extract of Bark, thirty grains;
Madeira Wine, one ounce:
The camphor to be well rubbed with a little fpirit of wine, the extract to be diffolved in the wine, then the whole mixed.

24th. Yesterday afternoon every appearance indicated the greatest danger. A blifter was applied to each ancle, and the quantity of camphor in the bolus was encreased to five grains. Towards morning his pulse became more equable, and now, which is about fix o'clock A. M. a gentle moisture covers the furface,

P.II.] THE REMITTENT. III

furface, and he gradually becomes fenfible. An hour pass he had a large stool of a cadaverous smell, and an unusual flow of thick urine. The blisters are taken off and dressed, the blankets are changed, and he has got a clean shirt. He ass for punch, which is allowed, and he is to have wine occasionally.

Take of Powdered Bark, two ounces; Spirit of Hartshorn, one drachm; Common Water, one pint: To be well mixed.

Of this he is directed to take one ounce every hour; the quantity to be encreased, if his stomach can possibly retain it.

25th. He has taken two-thirds of his bark, and he continued in a favourable ftate all yefterday; but in the night an alteration took place, and his medicines were omitted. This morning every febrile appearance is returned, except the delirium and infentioility; pulfe fmall and

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and quick, tongue dry, thirft, intenfe heat, a flight difficulty of refpiration, languor and dejection, are the prefent fymptoms. A camphorated faline draught, with the addition of a very fmall quantity of tartar emetic, is ordered at fhort intervals, and a ftrict attention given to the free admiffion of air.

26th to 31ft, inclusive. In these days he was much in the fame state as on the 25th; generally towards morning he had a remission; and on the 27th he was tolerably free of sever all day. He then took a preparation of the extract of bark, which was occasionally repeated : he had a stool once in two days, but the last was procured by injection. Thin soups, small quantities of wine, and cordial medicines, were alternately given.

FEBRUARY I. Appearances worfe: the febrile fymptoms, and particularly the delirium, have returned with encreafed feverity;

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feverity; pulfe more feeble and irregular, dry tongue, intenfe heat and thirft, difficult refpiration. The faline julep with tartar emetic is again given, another blifter is applied to the back directly in the fame place with the former, and we have fome thoughts of fhaving his head, to prepare it for a blifter in the evening.

2d. This morning the delirium is gone, and an evident remiffion has taken place; he had fome fleep in the night, by which he was fenfibly benefited; and he had a free difcharge of urine, and a large ftool :—his head was not fhaved.— Extract of bark in dofes of a fcruple diffolved in wine, is ordered every half-hour; and, if his ftomach can retain it, the quantity to be augmented.

3d. Since the remiffion of yesterday appearances continue favourable; skin moist, tongue more clean, less heat and thirst: he has taken eight scruple doses of the extract of bark. A change of

I

dry

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dry linen is ordered, and he is to take his bark once in two or three hours. A little weak foup for dinner, and two glaffes of wine.

4th. No appearance of fever; skin cool, pulse regular, belly natural. Medicines are ordered to be continued. The fame allowance for dinner.

15th. From the 4th to this day he flowly recovered; could fit a little out of bed, flept well, and what he eat was with pleasure. He complains this morning of a flight griping and loofenefs : he took nothing yesterday unusual. He is ordered to take the following draught immediately, and to have thin foup only for diet :

Take of powdered Rhubarb, Magnefia, of each one fcruple; Peppermint-Water, two ounces: Mixed.

16th. The medicine procured feveral large stools: the griping went off, but the loofenefs

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loofeness continues, and he complains of an acidity in his stomach. He is directed to take thirty grains of magnesia in a cup of peppermint-water, once in three or four hours, and twenty drops of laudanum at bed-time. To have a milk and sago diet.

17th to the 27th of MARCH. Every medicine was tried to combat this loofenefs, but without effect : the most restorative diet we could procure was given; decoctions of simarouba, infusions of terra Japonica, all the variety of earths, bark, opiates, and even alum were exhibited.

He died on the 27th of March.

CASE V. JOHN LITTLE, Admitted the 31st of JANUARY. Has been four Days ill. Nausea, anxiety, prostration of strength and dejection, encreased heat, * Vide TABLE, Part I. I 2 head.ach,

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head-ach, foul tongue, thirft, coftiveness, a parcity of urine which is very highcoloured, and a yellow tinge of his eyes and furface, constitute his complaint.

These appearances were ushered in by shivering, &c. There is an abatement of them towards morning, and an encrease every afternoon.

He is directed to take the antimonial folution (b), as in Cafe II. and to drink freely of any weak acidulated liquor.

FEBRUARY I. The antimonial produced vomiting and fome ftools: towards evening it excited a gentle diaphorefis, which was encouraged by cool diluting drinks. He has flept well in the night, and this morning his fkin and tongue are moift: a flight head-ach and pain of the back continue, from which we expect a quick return of the exacerbation of fever. He is then to take the draught (a), and to obferve the fame

P.II.] THE REMITTENT. 117

fame method as yesterday with respect to drink.

2d. About eleven o'clock yesterday forenoon the head-ach and pain of the back encreased, and he was sensible of a coldnefs which continued near one hour; then the common fymptoms of a hot. stage appeared. He took his draught, and towards evening a moisture on the furface took place, with an abatement of symptoms. He slept some in the night, and this morning there is an evident intermission. He is ordered directly half an ounce of powdered bark, mixed in water, with the addition of a little aromatic tincture. To have the draught (if necessary) as before.

3d. Yesterday at ten o'clock A. M. he had an imperfect attack of fever; he took his bark at half past eight o'clock and retained it; he likewise had his draught: however, no perfect solution of the paroxysm has taken place.

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He

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He had a very reftles night, and this morning his eyes and skin are of a deep yellow; his cheeks are of a dull red, a foul tongue, confiderable thirst, and an encrease of heat. An ounce of the antimonial preparation (c) is to be given every hour, in order to excite nausea and procure a stool.

4th. Three doses of the antimonial vomited him, gave three very large ftools, and he had a copious discharge of urine. The prefent appearances are, a remarkable diminution of the yellowness, a moist tongue and skin, a regular pulse, and no disagreeable heat.

Eight o'clock A. M. To take two drachms of bark in wine and water every hour, until three doses are taken : panada, when he finds himfelf in a difposition for it, is also allowed.

5th. No return of fever; the favourable appearances of yesterday continue, and the yellowness of the surface is quite gone:

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gone : a flight tinge, however, in the eyes is still observable. He is to take two doses of bark, in the same manner as yesterday, and to have some broth and one glass of wine for dinner.

6th. Eight o'clock A. M. He continues free of fever; had a good night; no ftool fince the third. The bark to be omitted, and two drachms of Glauber falt taken directly. To have one pint of broth, and two glaffes of wine for dinner.

23d. From the 6th he gradually recovered strength: for the last three days he has been allowed meat, and is now fo well as to be discharged.

This man was fent to the fame post from whence he came, and he relapsed into a fimilar difease; but with more severe fymptoms the ist of March. Vide TABLE.

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CASE

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C A S E VI. WILLIAM ALLEN*, Admitted the 27th of MAY.

Before this man's admission, for two or three days, he had a bad tafte and nausea, and at times a little head-ach with vertigo; however, he continued on duty. These complaints soon encreased, and were attended with other marks of fever : he was ordered an emetic, and two hours after its operation, the draught (a). By these medicines he vomited, fweated, and flept well. In the morning of the 28th, he was attacked with coldness, followed by a convulsive shaking of his arms; of a sudden he became speechless, with his eyes funk and fixed; his breathing laborious, and extremely foetid; the heat of his skin intolerable, and full of livid spots. He

* Vide TABLE, Part I.

2

died

P.II.] THE REMITTENT. 121

died in less than an hour after the attack. From the extraordinary rapidity of putrefaction, he was obliged to be buried two hours after his death.

Allen had a remittent attack on the 31ft of January, of which he recovered, and was difcharged the 15th of March: at this time his wife and child died. For fome time after that period, it was obferved this poor man turned fretful and dejected: thefe, however, gradually wore off, and he became cheerful, and more hearty and fat than ufual; in this ftate he had the unfortunate attack.

If this patient had taken an emetic on the first appearance of complaint, is it not probable that it might have prevented the fatal confequence? Or, if we had begun giving the bark, in the greatest possible quantity, immediately on his admission, would it not have prevented the fatal attack, or rendered it less fevere? 122 CASES OF [P. II.

§ III.

CASES of the DYSENTERY.

CASE VII.

ALEXANDER WARDEN*, Admitted the 16th of JANUARY.

GRIPES, frequent stools which are flimy and tinged with blood, *tenefmus*, head-ach, dry tongue, hot skin, and a quick pulse, characterise his complaint.

The antimonial folution (b.) is ordered to be given, in order to produce vomiting and large ftools, and an opiate at bed-time : for common drink, watergruel, or linfeed tea.

17th. The medicine produced vomiting, and gave feveral large ftools; the griping and *tenefmus*, however, continue: the febrile fymptoms are more favourable.

* Vide TABLE, Part I.

(d) Take

P.II.] THE DYSENTERY. 123

(d) Take of Tartar Emetic, three grains; Liquid Laudanum, two drachms; Common Water, one pint.

The Tartar Emetic to be diffolved in the Water, then the Laudanum added, and the whole mixed.

Of this he is to take two table spoonfuls every two hours, and to continue his drink.

18th. Appearances this morning are beyond our expectations favourable: ftools are not fo frequent, and they are larger, and lefs bloody. Hard lumps were voided two or three different times yefterday: the griping and *tenefmus* are triffing; pulfe is regular, and fkin cool. The medicine to be continued once in four hours, and to have a little thin foup.

19th. No ftool fince last night; slept well, and weakness is the only mark of disease remaining. He is ordered a cold infusion of bark, and to be indulged with thick broth.

20th.

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20th. Free of complaint; belly regular: the bark to be continued to-day, and then omitted.

31st. Discharged.

CASE VIII. JOHN ARDEN*, Admitted the 25th of JANUARY.

Frequent stools with griping, headach, foul tongue, bad taste, and quick pulse, are the most remarkable appearances of his disease.

He was attacked with fhivering, and all the common marks of fever; foon after which the griping and fmall ftools came on; and they have continued with the febrile fymptoms in their prefent ftate thefe two days. He is directed to take the antimonial folution as in Cafe VII. and an opiate at bed-time.

26th. The medicine has produced vomiting, and given many large ftools;

* Fide TABLE, Part I.

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but he has had a very uneafy and reftlefs night: the griping, *tenefmus*, and febrile fymptoms, are fenfibly encreafed. He is to take two fpoonfuls of the preparation (d) every hour, until the complaints are abated, and then only once in three hours: linfeed tea, or water-gruel, for common drink: his feet, legs and belly are to be fomented at bed-time.

27th. A tolerably eafy night, and this morning the febrile fymptoms are nearly gone; a moift tongue and fkin; his ftools larger, and lefs frequent: he complains of a pain in his belly, in the fituation where the colon forms its figmoid flexure. The medicine to be continued every three hours; volatile liniment applied to his belly; and the fomentations are to be repeated.

28th. Was pretty well all yesterday; in the afternoon the pain of his belly was quite gone, and he thought himself perfectly recovered: he slept well in the first

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first part of the night; but towards morning he awoke in a shivering fit, with a return of the griping, and frequent stools. As the shivering went off, he accidentally took a dose of his medicine : an universal diaphores was soon evident, and the griping and inclination to stool disappeared; and just now he has no particular complaint. He is ordered one drachm of bark in a cup of chamomile infusion every two hours, and to have an opiate one hour before the period of this morning's shivering.

29th. He has taken four doses of bark, and the opiate, as directed; he had a good night, and no return of shivering or griping. The bark to be continued, and to be allowed a little broth.

30th. No complaint: he had two regular ftools yesterday. The medicine to be omitted, and to have an additional⁵ P. II.] OF RELAPSES. 127 tional quantity of broth, and two glasses of wine.

FEBRUARY 2. Continues well: belly regular.

12th. Discharged.

CHAP. V. Of RELAPSES.

EVERY care which our fituation admitted proved ineffectual to prevent the return of difeafes. Indeed, there were certain circumstances peculiar to it, which made this to a degree almost impossible; and these may be reduced to,

1. The Diet of Soldiers.

2. The Necessity of returning them very early, on Recovery, to Duty.

3. The Impracticability of fending them to more healthy Situations. When

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When patients were discharged from the hospital, they returned to their usual manner of subsistence, on falt pork or beef; and the only deviation they could make from this diet, was by the addition of a few roots or greens.

The indigestible quality of falt meat, particularly in weak stomachs, is well known; and the bad effects of it are more confpicuous in cafes where we cannot regulate the quantity, or attend to the manner in which it is cooked. Soldiers, when they are discharged from a general or regimental hospital, should be confined for a proper time to half their ordinary allowance, and directed a suitable kind and proportion of ve. getables. If the falt meat was foaked for a few hours in warm water frequently repeated, it would not only deprive it of its faltness, but make it more easily assimilated to the purposes of nutrition; and instead of boiling this in the common

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mon manner, if it was to be cut in flices, and formed into a kind of stew with mucilaginous vegetables, a very good diet might be procured. Irregularity and intemperance may be mentioned as causes of the relapses which happened : they certainly were. But the obstinacy of some individuals was such, that these causes could not be always prevented.

Patients were generally kept in the hospital from eight to twelve days after the termination of their disease : this, however, depended upon the degree of strength. We were often obliged to fend them away fooner than we could have wished, in order to make room for recent and worfe cafes. The most of them were allowed bark, with fuitable directions; but the nature of the fervice was so severe, that they were unavoidably ordered too foon on fatigue, and K we

i30 OF RELAPSES. [P.II.
we had them again in the hospital a
little time afterwards*.

The period to which our observations are confined, was a time that would not admit of fending convalescents, or recovering patients, to fituations of fuperior degrees of healthiness : Morne Fortune and the Vigie were the only places which we had then in our power to fix on; and these had no conveniencies for the reception of enfeebled men, except (as we have already observed) what the temporary hut could give, which was by no means a shelter from the inclement weather. This being the cafe, the men on recovery, before the tone of their fibres was fufficiently reftored, were exposed to the fame remote caufes as originally produced the difeafe : and from our knowledge of the action and effects of these causes, we readily sup-

* Vide TABLE, Part I.

posed

P.II.] OF RELAPSES. ist

pofed that the difeafe could not fail of being re-produced. How far relapfes depended upon a habit induced by the effects of the former difeafe on the fyftem, without the fresh application of external causes, or on any supposed influence of the moon, we did not determine.

Both the intermittent and remittent fever (vide the TABLE) very often returned, and the disease frequently varied its form in the second appearance. For example: a quotidian followed a tertian; a remittent a quotidian. However, it fometimes happened that this line was reversed, the quotidian following the remittent, the tertian the quotidian. In the first cases, the treatment was always protracted, and troublefome fymptoms appeared as the confequence of the difease, which rendered the recovery precarious and uncertain. K 2 In

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In the fecond cafes, the treatment was quicker, and the recovery more certain and permanent.

With respect to the use of bark in preventing relapses, the following method was observed : After the termination of fever by that medicine, it was given in fmaller doses, and continued for two or three days, then it was omitted; for the use of it in the same doses. beyond that time, had no effect. I have feen patients (without being able to ascribe any particular cause) who have taken the bark for eight days after the departure of their fever, relapse during its exhibition. The bark being omitted for three or four days, the patient began again, and took two large doses twice a-day; one of the dofes was given half an hour before the time the fever usually attacked : this method was perfifted in for three days, then discontinued, and

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and repeated in the fame manner eight days after, and fo on for two or three times. Some obferved, that taking the bark for two or three days at every change of the moon, was fuccefsful in preventing a return of the difeafe; but of this we acknowledged our incapacity of judging. However, the method we profecuted comprehended this idea; for an eight days interval made the period of exhibition to be nearly about every change of the moon.

To prevent relapfes, and even the formation of difeafes; emetics, Glaubers falt, and bark, were left at the different out-pofts, and directions lodged for the exhibition of these medicines with the Officer who commanded. But the only advantage, I think, we derived from this step, was an expenditure of medicine; and the men having an K_3 aversion

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averfion to the hospital, it afforded them a pretence for staying at their out-posts, until their diseases were so far advanced, that they became exceedingly dangerous. These consequences, however, we did not foresee: the step, at first, had a specious appearance, but we were in time undeceived.

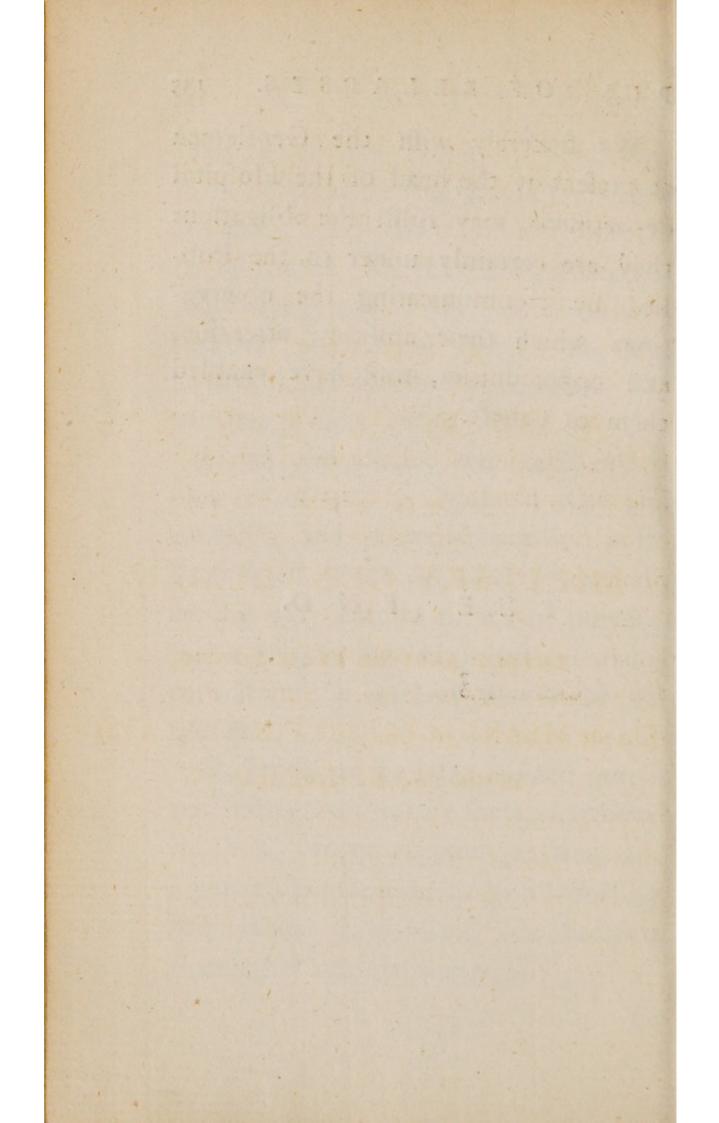
Upon the whole, we confidered a change of air, a regulated diet and exercife, and a well-conducted coldbathing (if no topical affection exifted), as the only certain means of preventing a relapfe, by being beft calculated to reftore the natural vigour of the fyftem.

St. Lucia, as we have pointed out, is not deftitute of healthy fpots: a removal to these, proper accommodations, and a particular attention to good nursing, may render that island less dreadful than it has unfortunately proved.

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We fincerely wifh the Gentlemen at prefent at the head of the Hofpital department, may fulfil the obligations they are certainly under to the Public, by communicating the obfervations which their abilities, attention, and opportunities, must have enabled them to collect.

THE END.



A SHORT

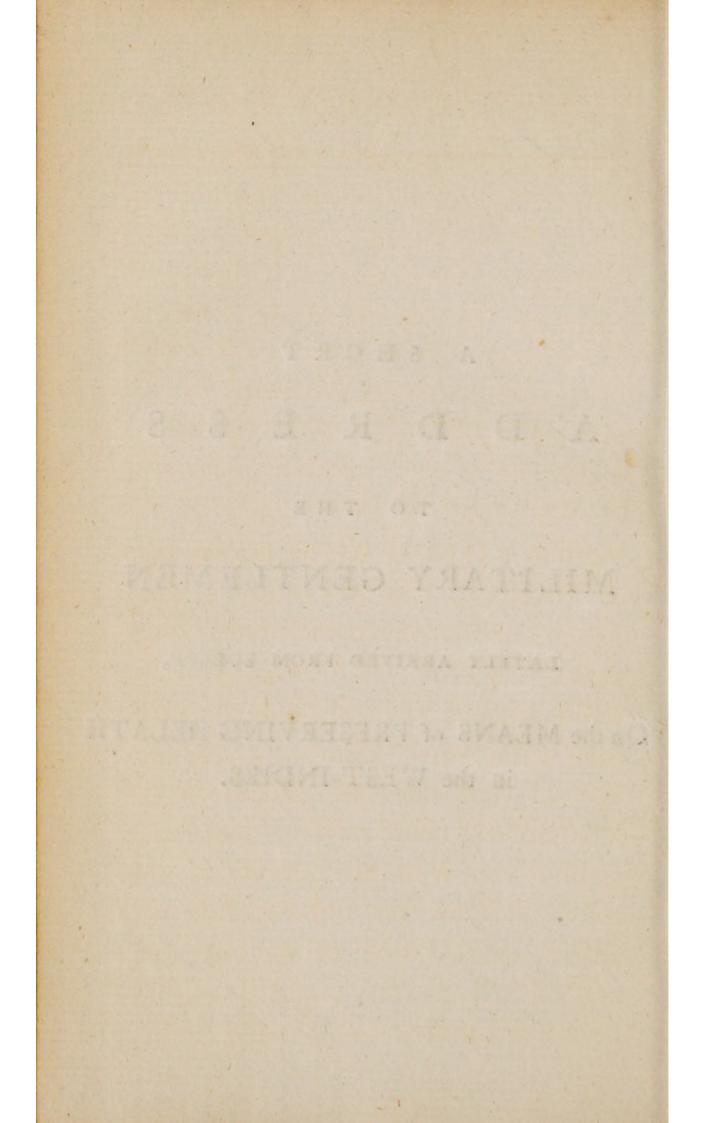
A D D R E S S

TO THE

MILITARY GENTLEMEN

LATELY ARRIVED FROM EUROPE,

On the MEANS of PRESERVING HELATH in the WEST-INDIES.



A SHORT A D D R E S S, &c.

GENTLEMEN,

N OTHING but a fincere concern for the prefervation of your health, and a confcioufnefs that a great deal depends on you, toward preventing or leffening the feverity of those difeafes with which Europeans, particularly of your clafs, are affected in the West-Indies, could have induced me to trouble you with an Address of this kind. I know the unfavourable idea entertained in Europe of the unhealthinefs of this country; and I likewife know, this makes confiderable impreffions

fions on those gentlemen who are ordered to it. However, from a two years refidence in the country; from some observation on the causes of its difeases, and of the deaths which have so generally happened in it; and from the opinion of medical gentlemen who have lived many years, and are of an extensive practice; I am confident the West-India Islands, in themselves, are by no means so unhealthy or fatal to the European constitution as is commonly imagined.

In this Addrefs I mean to point out to you, the caufes of the difeafes that have proved fo unfortunate to gentlemen of your character, and to explain as I go along the most certain means of preventing or abating the feverity of their operation; and the observations will be applicable to every Island you are liable to be fent to.

Late

Late philosophical experiments have demonstrated, that the human body can endure, without material injury, a greater degree of heat than our feelings could poffibly fuggeft to us. The difagreeable effects of heat by these experiments, were only a languor or universal weariness, an increase of perspiration, and perhaps a flight head-ach. The fame circumstances with a little variation, though more fudden and immediate, attend the too frequent cuftom of riding or walking in the fun; and if either or both of these are continued, they augment in severity, and form disease. It would be unnecessary to prove from facts the bad tendency of an exposure to the fun, particularly if this is connected with much motion or fatigue. It will be fufficient only to observe, that however capable the body may be to support itself against an encreased external heat, railed by artificial means, it is not fo well

well able to protect itself against the fun's scorching influence, whose hear, in this country, is always attended with circumstances unfavourable in themselves to the continuance of health. To prevent any injurious effect from this influence, Nature has generoufly provided the refreshing breeze, and acescent fruit. Art has likewife contributed to the fame purpose by the welladapted house. If duty makes it impoffible to avoid exposure to the fun, the common means of rendering the heat less hurtful, should be strictly complied with; fuch as an umbrella, a handkerchief put under the front part of the hat, and the least possible motion excited. When a head-ach, thirft, or any uneafy feeling, from exposures of this kind, happen, it may be generally removed by rest in the shade, an abstinence from vinous and spirituous liquors, and the free use of lemonade, or cream of tartar and

and water. If, however, it continues more than twelve hours, a gentle dofe of Glaubers falt will be proper.

In every country complaints are formed from cold. Although in this part of the world you cannot feel an extreme cold, yet in the mornings and evenings, especially in the winter months, you are sensible of a degree of it exciting chilliness: this, however, is remarkably different from those sensations induced by a cold air in a northern climate. In this country, it produces languid and difagreeable emotions; in the other, cheerfulness and activity. The evening dews fall univerfally, in great quantity, and are, beyond a doubt, very prejudicial; they ought, therefore, to be carefully shunned : this is an injunction implicitly attended to in Europe; it should therefore be more strictly obeyed here. When you are under the necessity of being exposed in the night,

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it will be prudent to have a great coat or cloak, and boots are effentially requisite to preferve your feet and legs warm and dry: a little brandy, or any spirit, at a time like this, is very proper. Rain ought to be avoided; but if you accidentally get wet, it is neceffary to fhift as foon as possible, and to take some spirit, or a glass of any bitter infusion. There is no perfon has the temerity to fay, even to think, that exposure to the sun, night air, and rain, are not improper, and dangerous to health; on the contrary, every one who has been in this country for only a few months, is convinced, from the many fatal effects fo frequently prefented, that these things are often attended with very serious consequences. We are here under the neceffity of observing, that many in the Army despife every rule, and, without diferetion, expose themselves, in the most unnecessary manner, to causes they

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are

MILITARY GENTLEMEN, &c. 145 are perfectly conficious give rife to difeafe.

In the Observations we have lately communicated to the Medical Gentlemen of the Army, on the diseases of a limited period in St. Lucia, it appears that certain fituations of that island are more unhealthy than others; and this was shewn to proceed from the presence or vicinity of marshes. Situations of this kind, however, are by no means peculiar to islands in the West-Indies; they are to be met with in Europe, even in England, Scotland, and Ireland; and they produce similar diseases, though of less feverity, as the intermittent fever, fluxes, &c. Beside marshes, countries, or particular spots of them, are unhealthy from woods, or the numerous existence of trees and shrubs, not only from the humid vapor they fend forth, but by occasioning a stagnation of air. Bridge-' Town, in Barbadoes, is the most un-L healthy

healthy part of the island; and this is chiefly owing to the river and marshy ground which are fituated nearly to windward of it. The healthy and pleafant island of St. Christopher has its Basseterre; and this is fickly from the fame cause, having a swamp in its neighbourhood. Some years ago they had a fever, which first made its appearance in this town, and was more fevere and fatal than in the other parts of the island. English-Harbour, in Antigua, is, from the like caufe, unhealthy. Tobago, Grenada, and St. Vincent, have their fickly spots, and these arise from the wood and marsh. As the healthy parts of an island, therefore, confist in being free from woods and marshes, these situations ought, if possible, to be fixed on : the more elevated they are, and less furrounded by hills, or any obstacle to the passing wind, they become better adapted both for pleasure and

and the prefervation of health. It often happens that you cannot chuse your own situation. In cases of this kind, when you are in the neighbourhood of marshes, and to leeward of them, you should have that fide of your house or hut which faces them, shut up as close as poffible, and your door and windows in the opposite fide. If you have a marquee, the front of it should be placed from the marsh, and the back part towards it. The fame thing ought to be observed in the encampments of your men. In these situations, wood fires between the marsh and you, twice or thrice a-day, particularly in the evening, will be attended with advantage : fmoking likewife is found useful. Infusions of bark, of snake-root, or any bitter, in spirit, have been also recommended : a little of either mixed with water, and taken in the morning, or when you are exposed in the night, may be used : however, L 2 they

they never should be continued, but desisted from when you get into a more healthy situation.

Want of proper barracks or lodgings for Officers and men, has contributed not a little in producing the many fatal instances which have happened; and no place can be more unfortunate in the demonstration of this, than the island of St. Lucia. If it is acknowledged that cold, heat, and moisture are causes of disease, it is not in the least surprising, if you find the building infufficient to keep out the rain and chilly air, a fource of complaint. This is an opinion which can be proved from fact; but it would be superfluous, as there is not a Gentleman the smallest degree acquainted with this country, who is not perfuaded of it. If you are exposed to the fun, rain, or fatigue, by neceffary duty, the bad effects to be expected from either of them may be prevented by a comfortable, airy,

airy, and dry lodging; but if, instead of this, you have only a damp hut or tent to retire to, some consequences of a disagreeable tendency may follow. In fuch a case, soldiers, before they are permitted to reft, should be ordered to take a glass of spirit, and be directed to kindle fires at the doors of their huts, or, if possible, within the huts. Officers, as they have it always in their power to do these things for themselves, should be particularly attentive to them. It is to be hoped these directions will be rendered unneceffary by a laudable exertion to erect and provide barracks, in every place where the Army may be distributed.

A languor and lowness of spirits are attendants on the difeases of this country, and the duration of them retards recovery, and begets dirtiness and indolence. No pains should be spared to prevent these consequences, as there are

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no circumstances whatever in a soldier's character so pernicious. The remedy most effectual for this purpose is a strict, even a fevere discipline. The foldiers who landed at St. Lucia, in the year 1778, were men accustomed to service and to danger; they were healthy and active, the whole conftituting the finest body of men ever seen in the West-Indies. The circumstances of their landing were unfavourable; with fatigue, rain, and badly cooked victuals, they were intimately acquainted : the retreat of the enemy did not free them from those things; it rather ushered in, and paved the way for a continuance of them. Amidst the variety of causes of difeafe, however, with which they were encircled, it was observable, those regiments which were particularly attentive to strictness and regularity, were the most healthy, and lost the fewest men. Although the regiments alluded to have greatly

greatly suffered, yet if we confider the period of their landing, the confequences of it, and the time they have been in the country, we shall find that their loss is infinitely less in proportion than what the new regiments have fuftained. It may be faid, that men die faster on their first arrival than afterwards, and that the young are more liable to be attacked with the difeases of this country, than those of a middle age or advanced in years. How far these confiderations are founded on fact, it is not necessary here to determine. However, it may be observed, that if cleanlinefs and activity are in any degree neceffary for the prefervation of health, they are more especially so among foldiers of this class, than among those of a different denomination. To the most careless observer, the difference of health in well disciplined regiments, and in those less attended to, is remarkably ftriking. L4

ftriking. It is impossible for a body of men to be clean and neat, unless ftrictly enjoined. You, who have the direction of foldiers, are not fo liable to these causes of disease : a cheerful manner and a genteel dress are the peculiar marks of your exterior deportment : they are certainly requisite for your fasety in this country; and the more attention you give to them, the advantages refulting will be more confpicuous.

Whatever renders the human frame fusceptible to the action of bodies, capable of changing it from an healthy to an unhealthy ftate, ought furely to be very earefully avoided. However, it often unfortunately happens, that this fusceptibility of injury is more readily produced by that very thing which feems to be the predominant inclination of almost the generality of men, but more particularly of those belonging to the army; and this is, a love of company. The inclination here is very different

ferent from the defire to be with the felect few, or to be engaged in the lively converfation, which is rational, ought to be more embraced, and folicited for : whereas the conjunction of those who meet to pass away time in the fashionable amusements of gambling, without proper regulation, is the company prefumed to be connected with what is extremely prejudicial to the prefervation of health. The following reasons are given for this opinion :

1. A company of this kind is generally attended with intemperance :

2. It is most constantly subject to late and irregular hours.

There is no occasion to establish the certainty of these; they are obvious to all: it is only proper to mention, that intemperance and late hours are productive of a certain disposition of body, favourable to the operation of some of the other causes of disease I have pointed

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out,

out, and which I have wifhed to guard you against, viz. The fun's influence, cold, moisture, and the vapour of marshes. These causes feldom act alone ; they are generally conjoined, and affift one another; and they require a certain state of the constitution before they can produce any severe or fatal effect. This conflitution confifts in a relaxed and weakened deviation from the natural flate; and this is always attended with a lowness of spirits, particularly when it is induced by intemperance and late hours. These things are well known to those who indulge in irregularities of this kind; for they are constantly the morning-visitors after a debauch. If the effects of fuch a conduct were confined to the difagreeable feelings I have mentioned, the unhealthy impropriety of it would not be fo material; but when it is found that these feelings give a favourable opportunity to the deleterious action

action of causes of a far more dangerous nature, this conduct is very reprehensible. In those countries deemed the most favourable and healthy, an intemperate and irregular behaviour is always condemned as the ruin of constitutions, and a source of disease. If it is attended with these confequences in our own climate, what must be the effects of it in this, where other caufes of difease are more numerous and more fatal? When a head-ach and dejection of mind are the consequence of intemperance, and continue longer than ufual, with the acceffion of other marks of indisposition, it may, with great probability, be suspected, that a disease is forming from a co-operation of the causes enumerated. In this case, the Surgeon should be immediately confulted; and if any delay occurs from distance or otherwise, an emetic of ipecacuan will be proper, and which all Gentlemen 2

Gentlemen on feparate duty ought to have in poffeffion : for difeafes, in this country, are often prevented from an early exhibition of a medicine of this nature, and a fuitable reftriction in point of diet. It is a good rule to take, the morning fucceeding a debauch, two tea-fpoonfuls of powdered bark in water, which may be repeated once or twice in the courfe of the day; but this is only to be done when there is little head ach, or apparent reafon to think neither that or any other uneafy feeling will continue.

There is a maxim you ought to hold always in view, and I confider it as comprehending almost every thing requifite, or that can be done for the prefervation of health, by preventing or refisting the operation of the caufes of difease I have specified, and this is contained in a very few words:

" Live well, and live regular."

Living well and living regular are far from being incompatible. A tafty and nourishing diet, even a generous allowance of wine, may not only be used, but are abfolutely neceffary to answer the purposes expressed. The moment, however, you go beyond the cheerful glass, that instant you expose yourself, as has been already observed, to every cause capable of producing disease. From a comparative view of the different degrees of health and fickness in those who have lived in conformity to the maxim stated, and in a manner diametrically opposite; the beneficial confequences of the one, and the pernicious tendency of the other, are well afcertained.

There is another maxim connected with the former, and worthy of equal attention, which is,

"Go to bed early, and rife early."

By a firict attendance to this injunction, you avoid several of the causes of disease I have marked; as the chilly air, and nocturnal dews. Befide, doing this, you fulfil what feems to be the intention of Nature, in giving the proper relaxation to our powers of action, which would otherwise be too much fatigued, and in time rendered defective in performing their ordinary motions. This is the principal reason why late hours are improper, even though not accompanied by imtemperance; for whatever weakens or lessens the vigour of either body or mind is prejudicial, because it makes them more liable to be affected with other causes of difease.

I have now, Gentlemen, as briefly as possible, pointed out to you the causes which

which make this country fo unfortunate to many of your character; and if you are convinced that this is partly owing to imprudence and want of care, the principal intention of this ADDRESS will be answered. For I form the pleafing expectation, that the apprehensions you are under of being attacked with the difeases of the West-Indies, will naturally lead you to avoid what is explained as hurtful, and induce you to attend to what is recommended for the preservation of your health. The Obfervations, Gentlemen, are not my 'own ; they are the concurring fentiments of every Medical Perfon in this country, and of the most eminent in Europe; it is therefore prefumed they merit your particular attention. It only remains to folicit your candour and liberality to pass over the errors you may meet with, in the stile or grammatical arrangement,

160 A SHORT ADDRESS, &c.

ment, as the fituation in which this ADDRESS was wrote rendered these unavoidable.

GENTLEMEN,

I have the honour to be

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Your obedient servant,

1 21 38 391

ALLO CO. CULTERING

a participant

Barbadoes, January 26, 1781.

JOHN ROLLO.





