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Contributors

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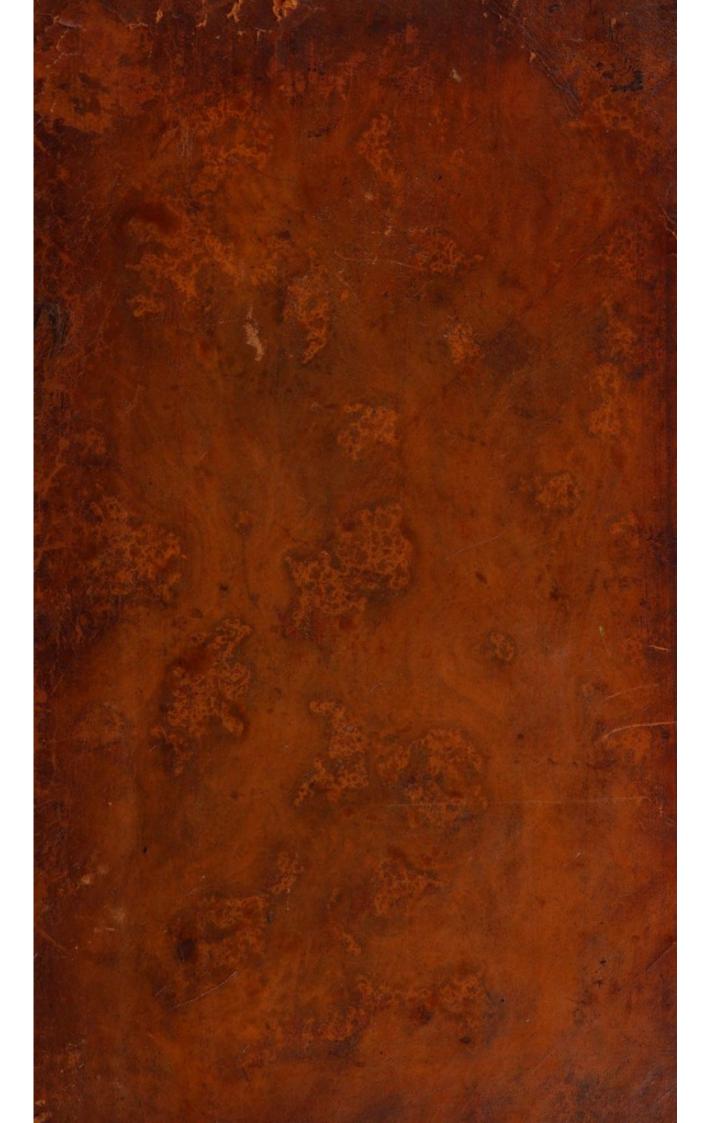
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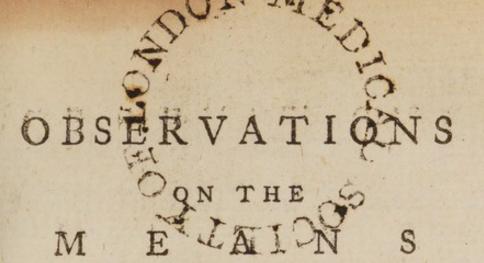
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OF

PRESERVING and RESTORING

HEALTH

IN THE

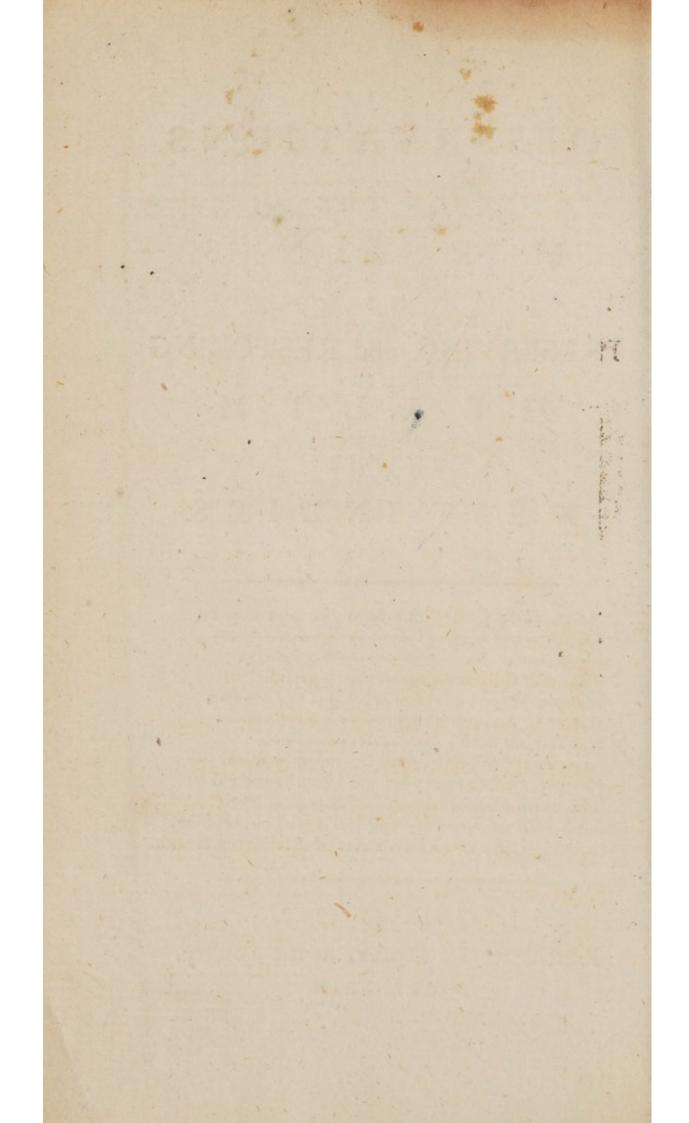
WEST-INDIES

Ye guardian Gods, on whom the fates depend Of tottering Albion!
That o'er th' incircling, elements prefide!
May nothing worse than what this age has seen
Has Albion bled.
Her bravest sons, keen for the fight, have dy'd
The death of cowards and of common men; Sunk void of wounds, and fall'n without renown,
ARMSTRONG'S Art of Preserving Health.

LONDON:

Printed for C. DILLY, in the Poultry.

MDCCLXXXIII.



TO THE

OFFICERS of the ARMY

IN THE

WEST-INDIES.

GENTLEMEN,

Attempted, in a very short Address to the Officers who arrived in the West-Indies about the beginning of January 1781, to point out the most obvious causes which produce the diseases in those countries;

A 2

and

and to shew that, by a regularity of conduct, it was in their power to avoid many of them, or to render them less active. The Observations I then made are now to be repeated; at the fame time they are to be enlarged and confirmed. The frequent occasion I have had of regretting the want of attention and care in the periods of recovery, induces me to point out the most eligible steps to be taken to accomplish the restoration of health.

THESE Observations, Gentlemen, are addressed to you in in two capacities; as individuals, and as men having the direction of others. As individuals, your feelings and difcernment will furely lead you to give a ready compliance with those things recommended to you. As men having the direction of others, your good-sense and humanity must force you to obtain a compliance in them. The foldier under your command is an object worthy of the most serious attention, and you are bound by every tie to give it. On your military behaviour A 3 depends,

depends, in a great measure, particularly in the West-Indies, the preservation and continuance of his health.

In the course of these Observations, many things will be applied to the private foldier, which in some instances will be applicable to you: when these happen, I trust your superior knowledge will render any direct repetition unnecessary; it is therefore avoided.

I FEEL it necessary, Gentlemen, to solicit the protection of

which so eminently distinguish your character. I feel likewise an earnest desire to persuade you, that the only motive I have in the publication of these Observations, is the sirm belief I entertain of the great influence your own conduct has in the business of preserving and restoring health, in yourselves, and in the men under your command.

And here I beg leave to acknowledge the obligations I lie under to many Gentlemen in the several departments of the

the Army for the affistance they have given me. To Mr. STEWART, Director and Purveyor of his Majesty's Hospitals in the Caribbee Islands, I am particularly indebted: but his professional abilities and extensive liberality place him beyond any effort of mine to make his virtues more conspicuous. I also confess my debts to other men, who, though remote from my perfonal acquaintance, are well known by their literary works; a confession which will be often repeated, as I shall carefully fully mark, whenever I have recourse to their sentiments.

I now take the liberty of subscribing myself,

With the greatest Respect,

Gentlemen,

Your most obedient Servant,

JOHN ROLLO.

Barbadoes, 1782.

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OBSER-

OBSERVATIONS

ON THE

MEANS of PRESERVING HEALTH

IN THE

WEST-INDIES.

ently shewn, that the diseases which appear in the West-Indies, whether considered as peculiar to them, or as proceeding from causes prevalent in any country, are in general of a very dangerous nature, and are always of an uncertain and precarious termination.

If

If we take a view of the diseases as they arise in the Army, we shall find that they chiefly originate from causes often within our power to prevent, or to render less active. In the West-Indies an army is subject to diseases of a different class, if we determine this from their feverity and fatality, from those with which natives, or even Europeans who are fixed in any conftant fituation, are affected: and this must proceed from causes peculiar to the Army. A foldier is liable to be removed from place to place, to be exposed to the inclemencies of the weather, and to be employed in every species of hard labour; besides, he has no variety of diet, no choice of fituation, and

and he must comply with whatever is directed. Even this is not all: a soldier, in an individual capacity, has frequently bad inclinations, which cannot be intirely restrained; he has feelings and views peculiar to himself, which are difficult to be regulated. These traits of a foldier's character in the two views in which I have presented him, as complying with his military duty, and as acting in a private capacity, account for the difference of his diseases, respecting feverity and danger, from those of other men. Officers can by strict discipline prevent irregularity, and a too frequent indulgence of vicious inclination; they can also, by an attention to cleanliness, to B 2 regular

regular and well conducted meffing, and to fobriety, abate the rapid and mortal tendency of those diseases to which soldiers are more immediately liable.

FROM a superiority of rank and circumstances, officers can regulate their own diet; they can often make a bad fituation comfortable; and they can avoid many exposures which it is impossible for a soldier to shun or to guard against. However, I am too sensible that there are many officers who are not always able to conduct themselves as their knowledge and prudence would direct. These gentlemen, particularly in the West-Indies, require an indulgent attention from Govern-

Government; and they undoubtedly merit a double exertion from those more immediately connected with them. A commanding officer has it always in his power to act the father and the friend to the virtuous fubaltern. By watching and directing his behaviour in health, it is probable he may preferve it; by a kind attention to him in the hour of disease, he gains the esteem of all around; and he feels the inexpressible fatisfaction which constantly attends the exercife of humanity.

Of the CLIMATE.

Country differs in climate from the fun's influence, from rain, and from peculiarities of foil and fituation. The West-India climate is different from that of Great Britain and North America, from the rays of the sun being more vertical and constant; from having in general more rain; and from marshes, woods, or uncultivated ground. From some of these circumstances, Islands in the West-Indies, though at a trifling distance, vary considerably in climate, and in respect of health. Barbadoes and Antigua may be faid to have a different climate from that that of St. Lucia and Tobago. The two former, comparatively speaking, are as healthy as any spots in Europe; and the two latter are quite the reverse: the difference arises from rain, marshes, woods, and uncultivated ground. Heat therefore, even although produced by the vertical rays of the sun, is not the principal cause * of

* It may be doubted whether the sun's heat is a cause of any disease except a temporary head-ach, or what is called the "coup de soleil." Dr. Monro observes, in his Treatise on the Diseases of Soldiers, vol. I. page 4, That mere heat of itself is not such an enemy to health as is generally imagined. This the troops experienced at Coxheath in the summer of 1778, &c. Dr. Naesmith says, he observed the same thing in voyages to the East-Indies, which afford the fairest trials of this kind.—Dr. Lind's Essay on Preserving the Health of Seamen, 2d edition, note to page 5th.

B 4

the unhealthiness attributed to the West Indies. The circumstances I have mentioned as producing the fickly alterations, we have in our power to remove; at any rate, to alleviate or refift. The quantity of rain can be leffened by clearing and cultivating the ground; marshes may be drained; and if this is not practicable, we can select a situation on which they have no effect. Necessity may expose us to rain, and to the vapour of marshes; but even then we can by a guarded conduct partly refift their injurious impressions.

In order to be more explicit respecting the climate of the West-Indies, I shall consider separately the

the effects of the fun, night air, rain, and fituation, with the best and most probable means of lessening the prejudicial consequences of each.

Of the SUN.

of a confiderable power to refift the effects of heat or cold. Philosophical experiments have demonstrated that we are capable of enduring a degree of heat beyond what our feelings could possibly suggest. The application, however, of artificial heat differs confiderably from that of the sun, from

from its being more equally applied. This is evident in the " coup de soleil," where the sun's rays are supposed to act in a direct and partial manner. The effects of artificial and natural heat may be faid to resemble each other in one respect—that if we divert the vertical rays of the fun, and have only an equal heat derived from the warmth of the furrounding atmosphere, nearly the same feelings will be produced; as languor, or an universal weariness, an increase of perspiration, and perhaps a flight head-ach.

It is feldom we cannot divert the vertical rays, and bring the heat of the fun to almost the same mode

mode of application and effect as the heat raised by common fires; therefore, we may take advantage of the power which our constitution possesses of resisting heat, and of preventing any bad effects from the fun's particular influence by a constant attention to the common means employed. An umbrella is one of the first things which prefents itself; and its use is attended with little trouble, though often neglected. The most proper umbrellas are those made of green filk, and of a large fize. A confiderable addition to their usefulness would be foon felt by a double covering of filk, or, what I prefer, a piece of thin dimitty, extending about twelve inches around

around the top on their infide. A handkerchief * folded and put under the hat is not only a good fubstitute for an umbrella, but with many it answers better. I know gentlemen whom the use of the umbrella does not fecure from the head-ach when walking or riding in the fun, yet are defended from attacks of this complaint in the same degree of exposure merely by the use of a handkerchief. The umbrella and handkerchief may be used at the same time. A very thin filver plate extending over the infide of the hat, and covered with dimitty or any cotton body, is likewise found useful; and

^{*} Black handkerchiefs are improper, and all filk ones are exceptionable.

it may be made to be transferred from one hat to another. Black hats are very improper in the West-Indies, although they are chiefly used. Soldiers ought to be allowed to wear white hats, which are procured with eafe, and not at a dearer rate, I believe, than black. Those who are destined for the West-Indies may have their common regimental hats iffued to them without the black dye; and when they are in the West-Indies, they may be supplied from home with the same kind. Dr. Lind *, a gentleman to whom the military world is much indebted, observes. 66 that the black hat, which con-

^{*} Essay containing Advice to Europeans in Warm Countries, page 250.

[&]quot; Stitutes

" stitutes part of the regimental dress of an English soldier, is " altogether improper in hot cli-" mates; as in those countries fol-"diers are apt, in the heat of the "day, to be fuddenly feized with " a species of apoplexy, occasion-"ed by the scorching beams of " the fun, darted on the head, and " absorbed by the blackness of "the hat; to prevent which a "white covering for that feeins " requifite." If white hats cannot be admitted, foldiers should be directed to have the crown of their hats externally covered with thick white paper, and fastened by the common hat-bands. If walking and riding in the fun, or any kind of exposure to him, cannot be difpensed

pensed with, the greatest attention should be paid to the hints I have given. In riding or walking, the less motion excited the better; for in proportion to that, the sun's influence will affect.

NATURE, as if conscious of the effects of heat, has in the West-Indies generously provided the refreshing breeze and acescent fruit. Art has likewise contributed to the same purpose by the well-adapted house. Thomson beautifully expresses the shelter Nature gives:

Bear me, Pomona! to thy citron groves;
To where the lemon and the piercing lime,
With the deep orange glowing thro' the
green,

Their lighter glories blend. Lay me, reclin'd, Beneath the spreading tamarind, that shakes, Fann'd by the breeze, its fever-cooling fruit.

Deep in the night the massy locust sheds, Quench my hot limbs; or lead me thro' the maze,

Embowering endless, of the Indian sig;
Or thrown at gayer ease on some fair brow,
Let me behold, by breezy murmurs cool'd,
Broad o'er my head the verdant cedar wave,
And high palmetos lift their graceful shade;
Or, stretch'd amid these orchards of the sun,
Give me to drain the cocoa's milky bowl,
And from the palm to draw its freshening
wine,

More bounteous far than all the frantic juice

Which Bacchus pours. Nor on its slender twigs,

Low bending, be the full pomegranate fcorn'd:

Nor, creeping thro' the woods, the gelid race Of berries. Oft in humble station dwells Unboastful Worth, above fastidious Pomp: Witness, thou best anana! thou, the pride Of vegetable life, beyond whate'er The poets imag'd in the Golden Age: Quick let me strip thee of thy tusty coat, Spread thy ambrosial stores, and feast with Jove!

WHEN a head-ach, thirst, or any uneasy feeling, arises from expofure to the fun, it may be generally removed by rest in the shade; by abstaining from vinous and spirituous liquors; and by the free use of lemonade, cream of tartar and water, the juice of oranges, or cold infusions of tamarinds. If, however, any of these complaints continue more than twelve hours, gentle evacuation, if not effected by the preceding drinks, will be necessary; and that may be procured by a small quantity of Glauber falt.

Of NIGHT AIR.

BY night air I comprehend that diversity of air which occupies the space from the sun's quitting the horizon to his return in the morning.

The night air in every country is deemed prejudicial to health, and by the prudent always guarded against. In elevated situations; in abodes not infested by marshy exhalations; and where the atmosphere is generally temperate and serene, fanned occasionally by cooling breezes, the night air is less hurtful and dangerous. But

in

in countries like the West-Indies, where the heat of the fun is intense, where there are frequent falls of rain, and where unhealthy fituations appear, the nocturnal air is baneful, and ought to be shunned. Dr. Monro, who was a long time at the head of the hofpital department in the army, obferves *, " that nothing has been " found to be more productive of " difeases in warm climates than " exposure to the damps, especi-" ally lying on the ground after the " dews have fallen." A foldier's duty often exposes him unavoidably to all the extremes of the

^{*} Diseases of the Army, 2d edit. page 45.

night; however, by an attention to a few precautions, any injurious effect may be in a great measure baffled. In all possible cases, soldiers on centinel or other fimilar duty should be sheltered by some proper covering-a house, compact hut, tent, or the boxes commonly used. Every soldier on exposed duty ought to be provided with a watch-coat, which may be very eafily carried without obstructing his fervice; likewise, woollen flockings, whole gaters, and thick shoes, are infinitely more proper than the trowfers now injudicioufly in use: and I here prefer the thick waiftcoat and breeches to those made with nankeen and linen,

linen, which are at present substituted. In the day-time a light dress is comfortable and beneficial; but it is quite the reverse in nocturnal duty. Soldiers should be allowed to take with them a small quantity of spirit, and encouraged to smoke or chew tobacco in every fituation of night duties. Soldiers ought to be strictly ordered not to rest or lie down on the damp ground. Men upon outposts, when no disadvantage to the service can attend, would feel not only pleafing fensations, but likewise salutary effects, from collecting wood and burning it, which warms, and corrects the furrounding atmosphere.

In the morning and evening, especially in the winter months, we are fenfible of a degree of cold exciting chilliness: this, however, is remarkably different from those sensations induced by a cold air in a northern climate. In the West-Indies, it produces languid and disagreeable emotions; in the other, cheerfulness and activity. These feelings point out the warm cloathing; but officers in general, not aware of the pernicious effects of an air of that kind, mount guard, or do any other duty which exposes them to the inclemency of the night, with the same cloathing they wear when the fun is in his meridian. Instead of the whole gater recommended commended for foldiers on night duty, officers, as they have it in their power, should constantly use boots.

THE preceding observations are applicable to rainy periods, as I shall immediately explain.

Of RAIN.

THE rainy seasons have always proved the most unhealthy, not only in the West-Indies, but in every part of the
world. Experience has told us,
that even these periods may be
C4 rendered

rendered less unfalutary, by an attention to our mode of living, cloathing, lodging, and fituation. Our living should be free and generous, without intemperance and irregularity. Our cloathing ought to be of that kind which is best calculated to defend us from the rain, and beget a natural warmth which may prevent any disagreeable effect. Our house must not admit the rain, but be compact, warm, and dry; and its fituation must be out of reach of the noxious vapour of marshes, and of the air which passes through impenetrable woods. Part of what I have said, Dr. Armstrong elegantly comprehends in the following lines:

Correct the foil, and dry the fources up
Of wat'ry exhalation.——
——At home with cheerful fires dispel
The humid air; and let your table smoke
With solid roast, or bak'd, or what the herds
Of tamer breed supply.——
Generous your wine, the boast of rip'ning
years,
But frugal be your cups; the languid
frame,
Vapid and sunk from yesterday's debauch,
Shrinks from the cold embrace of wat'ry

heavens.

The directions I have given on duty, under the article of Night Air, are here equally introduced and recommended. Soldiers when they are relieved, after being exposed to rain, should be ordered instantly to their barracks or apartments, whatever they are, to shift themselves, and previous to going into

into bed to kindle fires either within or at the doors of their habitations; and during this they may take a glass of spirit, and indulge in fmoking or chewing tobacco. Dr. Monro fays, " that in wet " weather centinels, or men upon outposts, should have a small " glass of pure spirit given them in or presence of the officer or serjeant " of the guard: fires in the rear " of the camp for men coming off "duty to warm and dry themselves " at, were found to be of great fer-" vice." Mindererus recommends *, " in wet, unwholesome ss feasons, to make fires of wood

^{*} Medicina Militaris, chap. iv. English translation, page 23.

⁶⁶ before

" before the tents, and to burn

" wetted gun-powder, to purify

"the air:" and he observes, "that

" volleys of shot made mornings

" and evenings in a camp, conduce

" very much to the dispelling of

" mist and qualifying raw air."

In the rainy feasons, and in the night, every duty should be dispensed with that is not absolutely necessary, from the presence or immediate apprehensions of an enemy. By attention to this circumstance alone in the West-Indies, the lives of many soldiers may be prolonged, to the important fervices of their country. Of what consequence is an officer's character? He is intrusted with the lives

of numbers, and is answerable for them; if not oftensibly to the public, to the natural feelings of humanity. What a field opens to the benevolent and generous! A constant opportunity is given for the liberal exercise of every tender suggestion. The man who saves one valuable life to his country, is a more respectable and worthy member of society than he who has destroyed any number of its enemies.

Of SITUATION.

N the choice of fituation of the spot on which we fix our refidence, though it be but temporary, principally depends the preservation of health in the West-Indies. All countries have their unhealthy places, and thefe observation has shewn to proceed from marshes, stagnating water, and woods. The most unhealthy country has its healthy fituations: even the unfortunate Island of St. Lucia is not without them. But, as we have observed in another place, foldiers cannot always felect the spots on which they may fix their

their abode. When active operations are carrying on, either in defence or attack, it is impossible that the healthy or fickly state of any fituation can be attended to, every confideration giving way to fecurity or fuccess. The moment however in which we are free from danger, the health of the army becomes the principal object; and the first thing to be observed, is the particular parts where foldiers are to be encamped or stationed.

It will be unnecessary to prove that the neighbourhood of marshes and thick woods is dangerous, it being evident to every one acquainted with the West-Indies: I shall therefore content myself with specify-

fpecifying the healthy places, and marking the most probable means of preventing the effects of a bad situation, when necessity admits of no other.

DR. LIND * fays, "experi"ence fully confirms this truth,
"that in fuch elevated and tem"perate fituations, where the
"foil is dry and gravelly, and clear
"from wood, shrubs, or stagnating
"water, Europeans enjoy good
"health in the hottest climates,
"during all the seasons of the
"year."

^{*} Advice to Europeans in Hot Countries, page 219.

DR. Monro observes, "that the most healthy situations in warm climates are those on the sides of hills or mountains, where the soil is dry, and clear from woods and stagnating water, and where there are no morasses within three miles."

THESE quotations sufficiently point out the places to be selected for the residence of officers, and for the encampment of soldiers. I shall only add, that the windward parts of an island, and those most exposed to a wind not intercepted by woods, or impregnated

⁺ Diseases of Soldiers, 2d edit. page 45.

with any thing from the land, are the most healthy situations.

AFTER a healthy place is found, and officers and men are fixed, I fincerely advise them not to go even on a vifit, except obliged by the most positive duty, to an unhealthy spot. Dr. Lind mentions an infrance of some officers whose usual refidence was on Monk's-hill, from sleeping a night or two in Englishharbour, Antigua, being attacked with a yellow fever on their return to that healthy eminence. More instances of this kind could be adduced, but the preceding one is fufficient; and I observe that this and all other fimilar cases are applicable to Morne Fortune and the town of Carenage, St. Lucia. That

That Island has proved fatal to many officers and men; and on, a close enquiry, we shall find the misfortune can with certainty be chiefly attributed to a wandering from a healthy fituation to one perfectly opposite. Officers may trace fickness and death from the time spent in the Carenage, which is a collection of houses surrounded by mortality. Officers who have attached themselves to their home, while they lament the imprudence of others, feel the heart-felt fatiffaction of a prudent conduct, and that good state of health which feldom fails to attend it. Here I remark, that the marsh surrounding one fide of the Carenage, might be drained by cutting canals,

nals, &c.; and I think this is a scheme which deserves the attention of a commander in chief.

WHEN the necessity of service deprives us of choice, and compels us to fix upon the most unhealthy fituation, we are to make use of the means which are best calculated to prevent its unfalutary effects. When we are in the neighbourhood of marshes, and to leeward of them, we should have that fide of the house or hut which faces them shut up as close as possible, and the door and windows made in the opposite side. If an officer has a marquee, the front of it should be placed from the marsh, and the back part towards it: the same thing

thing ought to be observed in the encampments of the men. In these fituations, wood fires between the marsh and the hut or tent, twice or thrice a-day, particularly in the morning and evening, and frequently made during the night, would be attended with advantage: fmoking or chewing tobacco is likewise found useful. An infufion of bark, fnakeroot, or any bitter, in spirit, has been also recommended: a little of either by itself, or mixed with water, taken in the morning or when exposed in the night, may be used. If a bitter infusion cannot be procured for the men, a small quantity of common spirit should be given to them, under the inspection of an officer,

officer, or of a trusty non-commisfioned officer. When guards are fixed on unhealthy fituations, each man should take, on mounting, a large dose of powdered bark in water with a little spirit; and this should be repeated when he is relieved. Every man coming from such fituations should be examined, and if he has the flightest head-ach or fickness, an emetic immediately given, and followed by two or three doses of bark, might prevent a ferious attack of the disease. By attending to these things, the furgeon's and officer's trouble will be amply rewarded. If the guard kept at the Carenage in St. Lucia was treated according to the preceding rules, the danger which at

D 3

present

present attends that service would probably be obviated. These remarks, which I have made on the means of preventing the bad effects of an unhealthy situation, throw opportunities in the way of officers to shew the care and regard they have for the men belonging to them. Soldiers, however inattentive, are not insensible of kind offices; they will repay their officers by sidelity and constancy in danger: at any rate, the pleasure of having merical them is impressed.

I SHALL add the sentiments of Dr. Lind * respecting the prevention of disease from unhealthy situations.

THE

^{*} Advice to Europeans in Hot Countries, pages 149, 151.

THE best preservative against so the mischievous impression of "a putrid fog, a swampy or " of a marshy exhalation, is a " close, sheltered, and covered " place; fuch as a house in "which there are no doors or " windows facing these swamps. "If, in fuch places, a fire be kept " either in the chambers, or at " the doors, or other inlets into a " house, (as is practised in some " unhealthy countries, during the " rainy or noisome foggy season) "these fires, together with the " smoke, prove an excellent and " effectual protection to those " within against the injuries of a " bad air. Swampy forests emit 66 putrid D4

putrid vapours, which are apt to

ec produce an immediate fickness,

"a vomiting, and afterwards a

46 low nervous fever. In fuch cir-

" cumstances, a vomit taken im-

" mediately, and a change into a

" pure air, will often prevent a fit

cc of fickness."

ARMSTRONG fays :

High on the breezy ridge, whose lofty sides
Th' ethereal deep with endless billows
chases.

His purer mansion nor contagious years
Shall reach, nor deadly putrid airs annoy.
But may no fogs, from lake or fenny plain,
Involve my hill! And wherefoe'er you
build,

Dry be your house; but airy more than warm.

Build not; nor rest too long thy wand'ring feet.

For on a rustic throne of dewy turf,
With baneful fogs her aching temples
bound,
Quartana there presides.

Where offers thrive, and trees that love the lake;

Where many lazy muddy rivers flow: Nor for the wealth that all the Indies roll, Fix near the marshy margin of the main.

Of EFFECTS peculiar to the WEST-INDIA CLIMATE.

CTRANGERS after their arrival in the West Indies are liable to some complaints which may be faid to be peculiar to the climate: and these do not seem to arise distinctly from any one of the circumstances which I have already confidered; but they appear to proceed from a conjunction of some of them, or rather from something not well ascertained. Every person, however guarded and cautious even in those places deemed the most healthy, is subject to the complaints alluded to, and seldom or ever escapes an attack of them. They are, however, more troublesome than dangerous,

rous, yielding always to a mild treatment, and I may say never proving fatal, if early and judiciously attended to.

Headach with fickness or loathing of food, a bitterish taste, costiveness, and a high-coloured urine, are among the first things which affect Europeans. These soon go off by confinement, an abstinence from the usual diet and liquor, and a free use of lemonade, cream of tartar and water, or tamarind beverage. If they should continue after this twenty-four hours, gentle evacuations, &c. will be necessary; but here recourse must be had to the surgeon.

ERUPTIONS, as the prickly-head, and another kind generally taken

for musquetoe bites, are the constant attendants upon all new-comers.

THE prickly-head is not altogether confined to strangers, it visits some of the natives annually: it is a mere external eruption, and not connected in itself with any other affection. It is a vulgar idea that it is a falutary appearance, and is thrown out from the blood; it affects only the skin, and is produced, I think, principally by the action of heat upon it. What has given rise to its being amore serious thing, is the common observation; that when it disappears a headach, &c. attend. This is not always the case; and when it does happen, the headach and other complaints generally precede its disappeardisappearance, which is only produced by the intervention of an accidental disease, that diminishes or contracts every exterior part. A variety of external applications are recommended, but I never saw one of them repay the trouble accompanying its use. A light cool dress and patience are the only things I advise.

The other kind of eruption, which is often taken for musquetoe bites, requires more attention; for it is frequently accompanied with fever, generally with headach, which in many cases is attended with an inflammation of the eyelids. This eruption commonly appears first on the legs and thighs, then on the arms, neck, and

face, resembling bumps of different magnitudes, from the fize of a pea to four times its bigness: they have an extensive base, and protrude above the skin, terminating in an apex or point. They itch exceedingly, and it is next to impossible to refrain from fcratch. ing, which is fure to make them bleed, and increase the inflammation and pain. They continue for some days, then gradually disappear, and are succeeded by a new set; which is in many instances again repeated. If a headach and inflammation of the eyes, or any mark of fever attend, directions should not be trusted to, but medical affistance be called in. For the eruption itself, all that is necessary confists in a moderate and light diet,

diet, a plentiful use of lemonade or tamarind drink, which keeps the belly gently open, and in refraining from scratching as much as possible.

DR. HILLARY, who treats of the diseases of Barbadoes, takes notice of both these eruptions, and gives an accurate description of them. He observes, that they often appear at the same time, by which every fymptom is more troublesome. He condemns the use of external applications, particularly in the prickly-head, which he supposes may repel it, and produce dangerous effects. It is immaterial, in common directions, whether we fay external applications repel the prickly-head, and bring on more serious diseases; or that they

are more troublesome than useful, therefore may be altogether laid aside.

I SHALL here introduce a method, which I am confident, if it was strictly followed, would be attended with the best effects, in preventing foldiers from being attacked with disease on their arrival in the West-Indies. I tried it on a detachment of the Artillery, confifting of twenty men, who came from England, after they were landed at Barbadoes; and I am certain, advantage was the consequence. The trial must, I allow, be carried further; and it may be extended to other fituations, which I shall point out. The method is not my own;

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it comes from respectable authorities, but it is not profecuted; at least, if it is or has been in the West Indies during this war, the practice must be partial, and not so generally used or known as its importance merits. The whole bufiness is comprehended in giving the men a certain quantity of Peruvian bark once a day, and repeating it for a few more; then leaving it off two or three days; commencing again, and continuing it for three or four days longer; after which it is to be discontinued. Each man in this way is supposed to take about two ounces of the bark, which to a regiment confisting of fix hundred men will amount to feventy-five pounds weight. This quantity of bark

bark given in the manner I direct, will probably fave more than three times the weight.

THE Artillery men on whom I began this practice at Barbadoes, were paraded in the morning about eight o'clock; their number was twenty. I mixed in a veffel forty drachms, which is equal to five ounces of powdered bark, with four pints of common water, and half a pint of rum. Of this mixture, I gave out of my own hand to each man nearly one gill, whch disposed of the whole quantity. This was repeated at the same hour for two or three mornings, then discontinued; renewed again in three or four days, and continued until each foldier had taken two ounces of bark, when it was entirely left off.

BEFORE

Before I attempted this practice, the men began to complain daily of bilious affections; but after they had taken the bark, those complaints ceased, and the men continued in tolerable health, although they were unavoidably put upon fatigue in disembarking and arranging ordnance stores. During the preceding exhibition of the bark, the greatest attention was given to regularity and cleanliness, and the men who had no complaint bathed in the fea every morning before the hour of parade. But of these I shall hereafter have occasion to make more particular mention.

If the practice I have recommended was rigidly attended to in more unhealthy islands than Barbadoes,

the advantages would be more conspicuous, and fully repay any expence or trouble. It must appear at first view, that the medical character is not altogether the acting one, here; the officer holds a diftinguished part, and without his affistance very little can be done or expected. Soldiers do not confider themselves under the surgeon's direction until they are fick; here only men in health are concerned; therefore the officer must interfere, and inspect the taking of the medicine. This is a duty of humanity in which all the generous feelings are interested; the officer will therefore exert his influence. In the West-Indies we must go hand in hand; for to me it is scarce a matter of doubt, whether the officer is not more concerned in the prevention of fickness among the soldiers, than the surgeon.

IT will be unnecessary for me to point out from what fource the bark is to be supplied, or to mark the particular modes which corps may adopt in giving it, these naturally occurring to those of whom it is required. I humbly folicit the attention of the commander in chief, the commanding officers of regiments, and the gentlemen at the head of the hospital department, to what I have taken upon me to recommend; and I also beg a continuance of it, to the observations which immediately follow.

As

As it is certain that fome of the islands in the West-Indies are more healthy than others, is it not to be prefumed that eminent advantages would accrue to the fervice, if foldiers, on their arrival in these countries, were stationed for some time in the most healthy islands, before they were fent to those which are deemed more unhealthy? In the one fituation, they have only the effects which I have marked as peculiar to the West-India climate to encounter; in the other, they have these united with causes that never fail to produce dangerous diseases.

IMMEDIATELY after a man's arrival in the West-Indies, if he is placed on an unhealthy spot,

spot, he is attacked with a bilious complaint, which in a healthy fituation would not be dangerous; but here it becomes so, because it renders the body accesfible to the effects of the unhealthy spot on which he is fixed. If this man on his arrival in the West-Indies was placed on a healthy fituation, he would probably have an attack of bilious complaint, but fuch a one as would foon leave him. After this, 'tis fix to one if a removal to an unhealthy fituation would produce another visit of the bilious complaint; for which reafon he will not be so liable to be affected by the causes of disease that furround him. However, I by no means advance, that fuch a man will not have a dangerous dif-E 4 ease ease in the unhealthy situation; I only infer, that the probability on the other fide is in his favour.

From what I have faid I wish to convey this observation, that all regiments or detachments of men from Europe, on their arrival in the West-India Caribbee Islands, should be stationed in Barbadoes or Antigua until they are habituated to the nature of the climate; then they may be fent to more unfavourable fituations, being previously relieved by a fimilar fet from England, or by men from that place to which they are destined. By this step two purposes are answered: Men have a fairer chance of resisting the diseases in the West-Indies

Indies; and men who have been fome time in an unhealthy fituation, and very likely nearly wornout by disease, are relieved, and have a prospect of once more enjoying tolerable good health.

of LODGING.

HAVE already observed the bad effects of the West-India climate under the circumstances of the sun's influence, night air, rain, and unhealthy situations, which sufficiently point out the kind of lodging most suitable to prevent them.

them. I shall therefore only further observe, that after a choice of fituation, it ought to be the next object with the commanding officer, to see that his inferior officers and men are comfortably sheltered in cool and dry lodgings. Here I might fummon the attention to prove the prejudicial confequences which follow a leaky roof, and a damp floor; but it will be quite enough to found the fatal name 66 St. Lucia!" It is impossible to direct our eyes towards that unfortunate island, without lamenting the fate of many valuable lives, which have fallen facrifices to an ill-concerted economy, or fome other mistaken system. Well may we at this day adopt the language of Armstrong-

Albion's——
bravest sons, keen for the fight, have
dy'd
The death of cowards and of common men;
Sunk void of wounds, and fall'n without
renown.

AFTER comfortable and wellplaced lodgings are provided, the
next thing which occurs is the management and behaviour of foldiers in them. Soldiers are apt
to lounge and loiter in their barracks, which never should be permitted, as indolence is not only
prejudicial in itself to health, but
more so by begetting dirtiness and
filth. Certain regulations should
be adopted, to keep, on pain of
punish-

punishment, the lodgings clean and dry, and free from incumbrances. If possible, nothing ought to be admitted within the barrack but what is absolutely necessary: all spare cloathing and accoutrements should be some other way disposed of. A foldier may be allowed to eat his victuals there; but after doing this, the place ought to be carefully swept, and the utenfils of the mess quickly cleaned and put away. Washing the face and hands and linen, combing the hair, brushing cloaths, cleaning belts and firelocks, are to be forbidden, except in circumstances where it is imposfible to avoid doing these things within the barrack; and then double care should be bestowed in fweeping,

fweeping, and preventing a retention of moisture. The bedding, of whatever kind, must be aired every dry day; and if it confifts of any thing that can be washed, it ought to be washed once or twice a week. Any difficulty of having these things strictly performed, lies only in appearance; on trial, it immediately vanishes, depending entirely on orders being given and obeyed, which every officer can always accomplish. I have purposely omitted faying any thing about necessary-houses, the propriety of having them in the rear of lodging or encampment, and of keeping them clean, being obvious to all.

Of DRESS.

LEANLINESS is not only CLEAN LIN LOUIS it pleasing, but comfortable; it is falutary and beneficial. A foldier cannot be too rigidly attended to in point of dress; for the one who is constantly neat and clean, is neither indolent or lazy; two things which I have observed are prejudicial to health. In the Army, every thing ought to be done by rule. At an allotted period, foldiers should comb their hair, wash themselves, and put on their cloaths; and thefe are to be performed under the inspection of noncommissioned officers; and if they require

require notice, this is a duty not beneath a more elevated character. In the day-time foldiers may be indulged in the choice of what kind of waistcoats, breeches, trowfers, and stockings, they will wear; but in night duty, or in cases of exposure to rain, they should be only permitted to wear the regimental waistcoat, breeches, and stockings. No material inconvenience can arise from the change of dress which here takes place. Dr. Monro fays, "Soldiers should be " obliged to keep themselves neat " and clean; to comb their hair, " and change their linen often; " and if the camp be near the sea or a large river, they ought to 66 bathe themselves early in the " morning, "morning, as the fervice will permit."

BATHING in cold water in the West-Indies being followed by cheerfulness and activity, becomes very necessary, besides its being conducive to cleanliness. Officers in any fituation can have almost every advantage to be derived from plunging in the fea, by having two or three pailfuls of cold water thrown over them by a fervant early in the morning; or if conveniency will allow, the shore bath may be adopted. Soldiers ought not to have a difcretionary power to bathe, because they are liable to abuse it, either by chusing an improper time, or being in a state

in which it may prove hurtful. If regiments or detachments were paraded at a selected hour, and marched off to bathe under the direction of officers, those men whom the furgeon judged to be improper subjects being previously excluded, then the good effects of bathing, without its inconveniences, might be expected. The detachment of Artillery formerly mentioned as having bathed while they were using bark, immediately after their arrival at Barbadoes, went into the fea two hours before the morning parade; which made the hour of bathing to be about fix o'clock, the period I judge most proper.

The circumstances which render bathing improper, are indisposition

disposition of any kind, except arising from weakness, (but here the surgeon interferes, and must determine) headach, and the presence of eruptions.

Some doubt arises whether the prickly-heat makes bathing dangerous. I have already said, that I consider the prickly-heat to be a mere affection of the skin, unconnected with any other bodily indisposition; therefore, I can fee no injury arifing from bathing with it. I have known many bathe with the prickly-heat, and never faw any inconvenience arise, except its becoming more plentiful and troublesome. However, bathing with the prickly-heat is feriously condemned by many medical gentlemen in the WestMonro forbid it; therefore, I would by no means particularly recommend or advise it. One criterion may guide us—that if we bathe with the prickly-heat, and find it followed by any thing disagreeable, we can defisft; but if it is succeeded by only an increase of the eruption without any complaint, I think we may safely continue.

In this place I cannot omit acknowledging, besides what I have elsewhere declared, and which I must always repeat from the constant occasion given, the attention of Major Williamson, command-

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ing

ing the Artillery in the West-Indies.—Ever ready to direct what is necessary, and to comply with what is pointed out for the advantage of his men, he has become the father of the soldier, and the valuable officer of his country.

WHILST I do justice to this character, it is impossible to refrain from paying a like tribute to Col. Cuyler, who commands the 55th regiment. This regiment, for management and discipline, gives the model which every other corps should imitate. The conduct of soldiers in barracks, in point of dress and regularity, and the mode of bathing, are here inculcated to us by an invariable practice; and the prac-

rior degree of healthiness. From this I by no means infer, that all other regiments are inattentive to regularity and discipline; I am persuaded of the contrary: however, I do not hesitate to say, that more attention might be paid to them in every corps in the service.

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Of

Of DIET.

THE diet of officers may be conducted by the following line—

Live well, and live regularly.

Living well and living regularly are far from being incompatible. A tasty and nourishing diet,
even a generous allowance of wine,
may not only be used, but are absolutely necessary to answer the
purposes of health *. The moment,

* Dr. Wind, in his notes to a translation of Dr. Lind's Essay on the Diseases incidental to Europeans in Hot Countries, observes, that at Middleburgh, the capital

ment, however, we go beyond the cheerful glass, that instant we expose ourselves to every cause capable of producing disease.

From a comparative view of the different degrees of health and fickness among those who have lived in conformity to the maxim stated, and in a manner diametrically op-

of West Zealand, in the month of August, after the rains which happen in July, intermitting fevers prevail: he says, such as live well, drink wine, and have warm cloathing and good lodgings during the sickly season, do not suffer so much as the poor people. Dr. Knox told Dr. Monro, that last war, in the Guadaloupe expedition, he observed that those who had opportunities of drinking Madeira and claret, and used those liquors in moderation, were less liable to dysenteries and bilious fevers than others.

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posite,

posite, the beneficial consequences of the one and the pernicious tendency of the other are well ascertained. A vigorous and active constitution has the greatest probable chance of resisting the causes of disease, in any possible situation; therefore, whatever gives and secures that constitution, is best calculated to preserve health.

A REGULAR and temperate mode of life, a comfortable lodging, a cheerful state of mind, and a generous diet without the smallest degree of excess, constitute the essential parts of the system which seems to me best adapted to secure health in the West-Indies. This will appear more just, by a review of the essects of a different manner of life.

Excess

Excess of any kind, but more particularly of drinking, produces a certain disposition of the body favourable to the operation of the causes of disease which I have pointed out, and against which I have endeavoured to put you on your guard, viz. the fun's influence, night air, and unhealthy fituations. These causes seldom act alone; they are generally conjoined, and affist one another; and they require a certain state of the constitution, before they can produce any severe or fatal effect. This constitution is a relaxed and weakened deviation from the natural state, and is always attended with a lowness of spirits, particularly when it is induced by intemperance

perance and irregularity. These are truths well known to those who indulge in excesses of that kind; for they are constantly the morning visitors after a debauch. A person with these morning feelings, if exposed to rain, or to the vapour of marshes, it is exceedingly probable will be attacked with a fatal fever. To make these observations more convincing, I shall insert the sentiments of men always credited.

DR. LIND fays*, "that excef"five drinking, and every species
"of intemperance, dispose the

^{*} Advice to Europeans, page 8.

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"constitution, more especially in hot climates, to the attack of the epidemic diseases of the country." In another place * he observes, "that in an air noxious from marshes, or in the unhealthy feason, any debauch or drunkenness will often give a fever, which in less than forty eight hours will terminate in the death of the patient. Excesseither in eating or drinking, in hot countries, are extremely prejudicial to the constitution."

DR. Monro is of opinion, that nothing has been found to

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^{*} Advice to Europeans, pages 186 and 187.

⁺ Diseases of Soldiers, page 45.

"in warm climates, than indulg"ing freely in the use of spirits and
"other strong fermented liquors."
Hence he recommends temperance
in drinking, and particularly
condemns the too liberal use of
wine. But

We curse not wine; the vile excess we blame,

More fruitful than th' accumulated board,

Of pain and misery.—

ARMSTRONG,

Even although conscious of the impropriety of intemperance, it will happen sometimes that the most vigilant will be surprised into it; for when we chance to fall into a friendly and social circle, animated by the mirth and good-humour

mour which reign around us, we are apt to forget usual restraints, and pass imperceptibly beyond the limited glass. In cases of this kind, when headach and dejection of mind are the consequences, and continue longer than usual, with the accession of other marks of indisposition, it may with great probability be suspected, that a disease is forming, from a co-operation of the causes of disease I have formerly enumerated; therefore, the furgeon should be immediately confulted; and if any delay occurs from distance or otherwise, an emetic of ipecacuanha will be proper, which all gentlemen on feparate duty ought to have in possession: for diseases in this country are often prevented by an early exhibition hibition of a medicine of this nature, and a suitable restriction in point of diet.

It is a good rule, to take the morning succeeding a debauch, two tea-spoonfuls of powdered bark in water, which may be repeated once or twice in the course of the day; but this is only to be done when there is little headach, or apparent reason to think neither that or any other uneasy feeling will continue.

I CANNOT omit here condemning, as big with the most serious consequences, the idea of keeping off a disease by launching into an extreme of excess, particularly in the article of drink. If this conduct

duct does not answer the intended purpose, the uneasy feelings which induced it increase, and form disease; and this disease, instead of being of a milder kind, will undoubtedly prove of a more dangerous nature than it otherwise would have assumed: whereas, if a suitable restriction is made, the disease may be either prevented from forming, or, when formed, have its usual severity abated.

These observations respecting intemperance and irregularity are applicable to soldiers, indeed more so than to officers; for having less variety of diet, no choice but a devoted ration, they are more exposed to the consequences. Besides, soldiers probaby have a more

more indifferent and less comfortable lodging, and from duty and other circumstances are more liable to suffer from the inclemency of weather, or unhealthiness of situation. From all these considerations they ought to be particularly restrained from indulging in excesses of any kind.

THE effects of too great a quantity of wine are less hurtful than of rum: the latter, besides the general bad consequences of drunkenness, acts in a most injurious manner on the delicate sibres of the stomach and bowels. I knew a young man of the Artillery at St. Lucia, of a gay and lively disposition, who joined in the practice of drinking a little pure rum in the morning: this he continued,

continued, increasing the quantity, until he was carried off by fever and looseness. On dissection, his stomach was found ulcerated, and otherwise very singularly diseased.

Rum I conceive to be a very useful article in a foldier's allowance, particularly in the West-Indies; but he ought never on ordinary occasions to drink it unmixed. If men cannot be trusted, their rum should be served out, diluted with four or five times its proportion of water, according to the strength of the spirit. With respect to the quality of rum, the older it is the better; for in its new state it contains an acrid corroding principle, which in time evaporates and altogether disappears. This is evident

dent on examining the different ages. of spirit: the new has a pungent fmell, and a sharp disagreeable tafte; the old has a pleafing aromatic flavour, and a mild oleaginous tafte. The rum supplied to the army, from what cause I do not determine, is generally of the most indifferent quality. Commanding officers can condemn injured provisions; may not they equally set aside rum of a very new and bad quality? Government. gives every care to its foldiers, and grants every indulgence to them; but by some fatality or other, its intentions are too often prostituted.

Soldiers have methods of procuring rum, above what their ordinary allowance (which is perfectly fufficient) fufficient) entitles them to. These practices can be nearly removed by a regular and well-conducted messing: this attended to in one regiment, would give it a very great superiority over any other, and would be the best means of ensuring sobriety, decency, and health.

Soldiers, as it is the military practice, though not always strictly followed, should be divided into messes, each under the direction of a noncommissioned officer, or a selected private man, and the whole inspected by a commissioned officer. Dinner is the principal meal; therefore, the chief attention is to be bestowed on it. All men not on guard ought to have a stated hour, at which time the officer should go the G2 round,

round, and fee that every body is at dinner, and that the whole of the victuals are dreffed and wellcooked. Those men who are on guard should have, if possible, their dinner fent to them, from the respective messes to which they belong. At first view this is a troublesome duty, but it is a standing order in the army, and may be executed in a few minutes. By this mode an effectual stop is put to the fale of provisions, too often practifed, and which procures the baneful spirit.

THE articles that foldiers generally dispose of are the small species, as pease, oatmeal, or rice, which are very essential things in a ration; they are vegetable preparations, and are the

best assistants with the bread to make the falt provision nourishing, and prevent any of its effects on the constitution which may otherwise follow. Would not an allowance of a small quantity of vinegar to each mess, particularly in the West-Indies, be useful? If a soldier is permitted to fell or exchange any part of his provisions, it should be with the consent of the person who directs the mess to which he belongs; and even then it ought to be only for vegetables, fish, or any thing fresh.

What a pleasure it must give to an officer, to have presented to him so many occasions of being serviceable to men who are too apt

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to neglect themselves! The fine feelings and views of a gentleman, the benevolence and generosity which hold the first places in his character, the extensive liberality of sentiment, and the perfect knowledge of human nature, acquired by the best education, are all supposed to center in a British officer. He requires them all, and he will find in the performance of his duty constant opportunities of exerting them.

Of EMPLOYMENT.

THE employment of officers, except in matters of duty, falls under their own direction; therefore they have it often in their power to regulate their actions, as far as these are concerned in the preservation of their health. The first thing which I point out to them is,

To go to bed early, and rife early."

By a strict attendance to this rule, several of the causes of disease which I have marked are avoided. Besides, a principal intention of nature is fulfilled, by giving the G4 proper

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 chief reason late hours are improper, even though not accompanied with intemperance; for whatever weakens or lessens the vigour of either body or mind is prejudicial, because it makes it more liable to be affected with other causes of disease. An officer on duty cannot attend to the preceding injunction; but unless that is more severe than usual in the West-Indies, he can comply with it three nights out of four; and by doing so he is better enabled to refift any inclemency of night duty, when it does occur.

ALL kinds of exercise are peculiarly necessary in the West-Indies; however, it is so unfortunate, that we have it but very feldom in our power to select the most useful kind, or even to have an opportunity of using any. The mornings and evenings are the fittest periods, and they give only a small proportion of time. Riding and walking are the two modes of exercise those countries afford, and they can be used only with propriety in the periods I have marked. Bathing in cold water, if duly profecuted, greatly supplies the place of exercise:

It is the purest exercise of health,
The kind refresher of the summer heats.
THOMSON.

But of that I have already taken notice, under the article of Dress.

As the greatest part of a West-India day must be spent in the house, every thing should be exerted to engage the attention of the mind, and maintain a rational gaiety and cheerfulness. Here an officer enjoys the fruits of a good education. If there is nothing around to afford him entertainment, he can take an inward furvey, and find the most satisfactory amusement in the contemplation of himself, of his views and intentions. Books are naturally pointed out, but a selection is not always to be met with; for being a heavy part of baggage, they are feldom carried.

carried. If a small and well-chosen library was procured in each regiment, by the subscription of its officers, and put under the quarter-master's care, with the stores of the regiment, every officer would be supplied with books, and without any trouble or incumbrance; by which satisfaction and pleasure might be always at hand.

Ir may be faid, that the frequent changing of officers in a regiment, makes fuch a scheme impracticable. Not at all; for it is only paying (by the person who keeps the accounts of the library, and whom I suppose to be either the paymaster or quarter-master) an officer on his leaving the regiment the money he subscribed, and getting the

fame fum from the person who succeeds to his place. Besides the original subscription, there should be a small annual sum to repair the library and procure new books,

In fuch confined scenes as the West-Indies exhibit, how enviable are the feelings of an agreeable acquaintance, and of friendship!

Attun'd to happy unison of soul;

Whose minds are richly fraught
With philosophic stores, superior light;
And in whose breast, enthusiastic, burns
Virtue.

Among these we are to expect

The full free converse of the friendly heart,
Improving and improvd'.

THOMSON.
SOLDIERS

SOLDIERS never should be exposed, except on unavoidable duty, to the fun, or to fatigue during his fcorching heat. The hours of parade, of manual exercise, and of relieving and mounting guard, ought always to be those in which the fun has the least influence. About sunset I take to be the best time for relieving guards, for this reason; the men mount refreshed, after the repose of a day, and will from that be watchful and alert in the night: whereas they who enter upon the duty in the morning, are fatigued upon the approach of night; therefore are apt to flumber and be careless; by which the fervice is not only endangered, but the men are more liable

liable to suffer from night air, or unhealthy situations. Besides, the men relieved in the evening, have the advantages of a natural night's rest to sit them for the duties of another day, whilst the other men are under the necessity of sleeping in the day, which never affords equal refreshment. I mean here those guards which are only relieved once in twenty-four hours.

If from the circumstances of service, soldiers are required to carry their provisions to any distance; or if they are under the necessity of repairing roads, of building huts, working at batteries, or of undergoing any fatigue whatever; the cool hours of the day should be chosen.

From

From what I have seen, and collected from the observation of others, I am consident that soldiers might be excused from any of these severe duties which I have specified. Where the country does not give negroes or labourers for such purposes, it is the interest of Government to supply them.

Here again I will mention St. Lucia. I am convinced that the fatigues imposed on the soldiers in that island, have proved more destructive to them than its natural evils; for these alone could not have produced such general fatality, if they had not been affisted by the effects of the horrid services in which the men have been employed.

DR. LIND*, after giving some instances of the fatality attending the employment of Europeans in hot countries in laborious work, particularly that of cutting down wood, &c. subjoins the following very striking observation, which I here beg leave to adopt: "It does not seem consistent with British humanity, to assign such employments to a regiment of gallant soldiers, or to a company of brave seamen."

When the commander in chief, and all other commanding officers, give the proper attention to the

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^{*} Advice to Europeans, page 145.

representations of the director of the hospitals, physician and surgeons of the army, although they may be only founded upon probability: then, and not till then, every advantage tending to the preservation of the health of sol diers in the West-Indies may be expected.

· CONTRACTOR AND AND AND ADDRESS.

OBSERVATIONS

ON THE

MEANS of RESTORING HEALTH

IN THE

WEST-INDIES.

Indies the recovery is often very tedious and uncertain: this, however, fometimes arises from neglect and inattention. When a patient is pronounced free from danger, he is too apt to shake off those little restraints which are absolutely necessary to secure a resolutely necessary to secure a resolutely necessary

covery and prevent a relapse. I have frequently had occasion to lament the injudicious and careless conduct of many, even although repeatedly warned of the consequences. I have seen men on the recovery—I have seen them relapse, and fall sacrifices to imprudence and folly.

AFTER the termination of a difcase, there is a great deal remaining to effectuate a perfect restoration of health. Every disease leaves a debilitated, weakened, or relaxed state of the constitution; and if this is not removed by the natural and artificial efforts for that purpose, a dropsical, pectoral, or some other complaint, if not a relapse relapse into the former disease, will certainly follow. The artisticial efforts in restoring a weakened constitution, receive but a trisling aid from the province of medicine; they consist chiefly in perfonal attention to good nursing, activity, and cheerfulness, but, above all, to a change of air.

It will be unnecessary to adduce instances in support of these observations, as persons recovering from disease are persuaded of the truth of them, but want fortitude and resolution to comply. However, I slatter myself, by pointing out the steps to be taken in the stages of recovery for the re-establishment of health, mark-

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of a different fystem, that every one will allow the attention and compliance he may feel himself interested to give. What I have to recommend will be comprehended under the following articles—Change of Air, Diet, Dress, and Employment; to which I shall subjoin a few rules of conduct from Dr. Tissor's ingenious "Advice to the People."

But before I proceed further,
I must again excite the feelings of
officers, by declaring, that even
in the recovery of health, as well
as in the preservation of it, soldiers have a great deal to expect
from their care and assistance.

The

The measures of the furgeon must be countenanced and enforced; and whatever is wanted and recommended should, if possible, be granted. When men are difcharged from the hospital, it cannot be supposed that they are entirely restored to their natural strength: That remains to be perfected by a regulated proportion of usual exercise and employment; and here they must trust to the knowledge and humanity of their officers. In circumstances of this kind, the generous and benevolent will always give every allowance; will procure necessary indulgencies; and in all possible cases will find out, and endeavour to obtain, a change of fituation.

H4

WHERE

Where officers have it in their power to be of use to soldiers in the periods of recovery, will be ascertained in the course of the succeeding observations. I can here frame in my own mind a part of that satisfaction and pleasure which officers will receive, in knowing that there are other occasions besides those an enemy gives, of displaying a wish to promote the interests of their country.

CHANGE

CHANGE of AIR.

THE advantages of a change, particularly from unhealthy fituations to others of a superior degree of healthiness, are not confined, but arise and are evident in all countries. While a disease exists, good effects are often derived from a change of fituation, even although confidered in only an equal degree of health from that which has been forfaken. These good effects are more certain, if the disease has been produced by causes peculiar to the fituation-fuch as the vapour of marshes: in this case, every advantage

vantage may be expected from a change to a fituation where these causes do not appear.

As I do not mean to extend my observations to the effects of a change of air in the removal of diseases, I shall go no further in the preceding explanation, but proceed to confider its effects on patients recovering from difeafe. However, I may previously remark, that if a change of air can produce the best effects, in certain circumstances, on patients labouring under a disease; it is reasonable to expect equal and more permanent effects from it, in those cases of which I am to treat.

In what manner a change of air, even to an air of no sensible difference, acts in promoting a restoration of health, will be unnecessary to investigate. Indeed, it would prove a subject infinitely above the reach of any exertion I could give it: besides, it is only of importance to afcertain by facts, how far the falutary effects of a change of air are to be depended upon, and in what cases these effects will be most probably produced; I shall therefore confine myself entirely to this latter enquiry.

THE good effects of a change of air on persons recovering from disease,

disease, are amply proved in those patients who remove from St. Lucia and Tobago to Barbadoes. I have feen repeated instances of persons with quotidian, even remittent fevers, and many others, who have been fo much debilitated as to make their landing attended with danger, recover beyond conception, and regain almost an European degree of health: and, what may appear fingular, I know cases where even a change from Barbadoes to St. Lucia, has been followed by recovery and restoration of health.

When every change of air which the West-Indies can afford has been unsuccessfully tried, a trip to the continent of America, or, what is preferable, to Europe,

Europe, has in feveral instances, effectuated a recovery; whilst a continuance in the West-Indies, in all probability, would have proved fatal.

More limited changes of air than either of those I have specified, have often been followed by advantage. Persons who are attacked with diseases in the Carenage at St. Lucia, or in any fituation near it, find benefit from removing to fituations about Souffrier, and to windward of it, and about Gros Islet. The 46th regiment lay for a confiderable time on board of transports in Carenage bay, and became very fickly; but on removing to Gross Islet bay, the fickness decreased, and the fick men gradually got better. The crews

crews of the Ajax and Vigilant line-of-battle ships likewise were exceedingly sickly in Carenage-bay; but on removing to Gross Islet bay the sickness abated, and the men very soon recruited.

Ar Barbadoes, the inhabitants of Bridgetown, on recovery from difease, find it their interest to go into the country; particularly that part of it called Scotland, which is a hilly ground, has its air chiefly from the sea, and is fanned by a constant wind. In Antigua the inhabitants also recover much sooner, by changing their situation into more elevated and exposed ones.

In those changes of air, as from St. Lucia to Barbadoes, a great deal is attributed to the passage. The happy effects which generally accompany the fea-air, or the agitation of the veffel, have long been demonstrated; and I readily grant that the passage, though short from one island in the West-Indies to another, may have a confiderable share in the recovery which is afterwards perfected. I was very sensible myself of the benefit of a voyage, after my leaving St. Lucia, in the month of July 1779. Besides my own case of a bad state of health, I had with me about twenty Artillery-men, flowly recovering from disease. From St. Lucia we passed by St. Vincent, lay one day off Grenada, then steered

steered for St. Christopher, which, until our arrival at that island, took up about fourteen days: during the passage, the weather was clear, and we generally had a good breeze of wind. Before we landed at St. Christopher, I perceived the happy effects of the voyage, and we were all in a short period restored to very good health.

As the good effects of a change of air, and of a fea-voyage, are placed beyond a doubt, they should in all possible cases be attempted. If a disease is formed by causes peculiar to any situation, a removal from it ought to take place immediately, without regarding the state of the disease, or the period of recovery.

DR. LIND fays *, that " pree fervation and certain recovery "depend upon an immediate " change of air, when feized with "the prevailing fickness of the " country:" He goes on : " I affert " it as a certain truth, which I " have had the most ample means of knowing; that persons labour-"ing under fevers, fluxes, and other diseases, may with great " fafety be moved from one place " to another; nay more, that by a " removal of them with proper " care, from an impure to a pure " air, such patients received imme-" diate benefit. Remove them " from the main cause, and per-

^{*} Advice to Europeans, page 179 and 180.

"haps the only source of their sickness; that is, from the land air".

In unhealthy islands, the Army would derive many advantages from being provided with places fixed in the most healthy fituations, when the necessity of service obliged it to occupy those parts, perhaps the most unhealthy. If a provision of this fort was made, which with very little trouble might in almost every case be done, the fick would be removed, and have a better chance; at any rate, places for convalescents should always be selected. In such an island as St. Lucia, which has a variety of bays, of different degrees of healthiness, and seldom destitute of Government transports; it would prove a step of the highest utility, to have some of those ships sitted up and stationed in the healthiest bay, which we suppose to be that of Gross Islet, for the reception of the sick of the army; at least, of its convalescents.

In a former place I mentioned the probable good consequences which would accrue from placing men, immediately after their arrival from Europe, in the most healthy islands, before they were sent to those deemed very unhealthy; and I here repeat it, because it gives a body of men impaired by disease an opportunity of being relieved, and removed to a more lieved, and removed to a more

healthy fituation, by which they will enjoy the effects to be expected from a voyage, and a change of air.

Officers who can obtain leave to go from one island to another, should delay no time, but immediately adopt a change of air. There are many cases where officers by delay have fuffered, and there are many cases where they have narrowly escaped death. In the presence of fever, if its nature and the want of conveyance will not allow a change of air, the earliest opportunity after should be embraced. An officer ought not to be refused leave to remove to any proper place for the recovery

of his health. The commanding officer who objects, from any pretence whatever, is truly chargeable with every consequence. An officer during fickness cannot do his duty; give him then every chance to recover, and he returns with cheerfulness and gratitude. If, however, he is detained, and unfortunately dies; the man who was the cause of it, has many heart-felt reflections to encounter. I have reason to believe these considerations to be rather impertinent, for I speak of a British commander: however, the concern I feel in the distant thought that it is possible a refusal might be given, is the only apology I offer.

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AN

An officer, when he obtains permission to change his situation for the recovery of his health, ought, if it is confined to the same island, to select that place esteemed the. most healthy by the inhabitants; and this may be determined also from those circumstances marked in the Observations on the Preservation of Health under the article of Situation. If the leave extends to a removal to another island, as from St. Lucia to Barbadoes, the most healthy situations of the latter should be likewise undoubtedly selected; but it often happens that patients are contented with the mere change to that island, and fix themselves in Bridge-town, the most unhealthy part of it.

PERSONS

Persons very much debilitated by disease must be cautious of chufing too elevated and exposed a fituation, where the air may be piercing and cold. In this case, the sheltered situation open to the fouth is the most commendable; and as recovery advances, a keen air may be less guarded against. Every degree of air should be gradually received, until the constitution is enabled to feel with advantage and fafety the most penetrating state of it which the West-Indies afford.

Ir has been often found, that all the changes of air obtainable in any part of the West-Indies, have proved ineffectual in procuring a re-establishment of health.

14

Experi-

Experience, as we have already observed, has demonstrated, that a return to Europe has completed the recovery, which had baffled the most salutary influence of those countries. Officers therefore, after a fruitless trial of removing from one neighbouring place to another, should make a more diftant change, and have leave of absence to return to their native shore; and it would not be incompatible with the fervice to extend this leave to the foldier. Soldiers who continue long in a convalescent or recovering state, contract pectoral complaints, swellings of the legs, &c.: thefe, however, may be the causes of an uncertain

uncertain and tedious recovery, as well as the consequences of it. In any of these cases, there is very little probability of a cure being effected in the West-Indies; the only chance is in a return to Europe, which I think may be accomplished with ease, and without the smallest detriment to the service; on the contrary, the most certain advantages would result from it.

A REGIMENT may have permission to send once a year those men who are deemed by the surgeon irrecoverable in the West-Indies to England; not as invalids or garrison men, but as men who may recover and return to their corps

corps, or be drafted into other regiments, as circumstances may point out. By this method many men would be annually saved, and the strength of each regiment be better ascertained.

THERE are regiments which return from five to fix hundred men, and out of that number more than one hundred are probably marked Convalescent, Consumptive, or Sore Legs; and in this case the regiment is desective in that number in strength, besides the incumbrance given in case of service: whereas, by sending these men home, the regiment stands the chance of receiving drafts or recruits from England; by which means it would be

be always really strong, instead of being nominally so; and a number of brave men would be saved, and restored to the service of their country. Sore legs in the West-Indies, in whatever manner they may be produced, are very troublesome, bassling every effort that can be made to heal them; and the hope of their cure can be built only on the return of the patient to Europe.

DIET.

DIE T.

TEXT to a change of air, a great deal may be expected, and certainly obtained, in effecting recovery, from a proper attention to what is comprehended under the article of Diet. On recovery, the appetite becomes keen, and not to be very eafily fatisfied; and if this is indulged, which is frequently the case, the recovery is retarded, and probably a particular weak state of the stomach with other complaints supervene. The fmallest degree of excess in eating, drinking, or in any other thing, is always accompanied with the most

most eminent risque of producing a relapse, or laying the soundation of chronic diseases; it therefore requires a constant perseverance in a regulated diet, and a sorbearance from every irregularity, to ensure the restoration of health.

While the vital fire

Burns feebly, heap not the green fuel on;

But prudently foment the wandering spark

With what the soonest feels its kindled
touch:

Be frugal even of that; a little give
At first; that kindled, add a little more;
Till, by deliberate nourishing, the slame
Reviv'd with all its wonted vigour glows.
ARMSTRONG.

In the periods of recovery, those articles of diet of the most easy digestion, and which afford the best nourishment, should be selected.

selected. Even these are to be taken in small quantities; and it ought to be an invariable rule never to take a full meal, but always to defift from eating before the appetite is fatiated. In the first dawn of recovery, the diet should confift of liquids or spoon-meats, as broths, preparations of milk, &c. taken in small proportions, and frequently repeated. As recovery advances, those solids the nearest, with respect to digestion, to spoon-meats, may be used; as jellies of the vegetable and animal kinds, young animal meat, and some species of fish. From these we go forward gradually, using substances more solid, and of less easy digestion, until we arrive

at our ordinary quantity and kind of food, when recovery is perfectly effected.

I saw a gentleman at Barbadoes who came from St. Lucia for the recovery of his health; he was very much enfeebled and reduced by a long-continued attack of fever. For the first eight days after his arrival, a fenfible change took place for the better. During that time he was confined to the house, except in the evening, when he took a short airing in a chaife; and he used a diet which had been recommended to him. Feeling his health and spirits so quickly returning, he became less attentive; and one day, being the tenth

tenth after his landing; he eat a hearty meal, and drank three or four glaffes of wine: in the evening he took his usual ride, but complained of a distension of his stomach. In the night he felt sick, and vomited what he had eaten at dinner; this was attended with headach; and the next day he had a return of his fever, which continued for some time; and with much ado he was rescued from death.

Another gentleman, in much the fame fituation, but more weakened and reduced, who gave every circumspection to his conduct, gradually recovered. He prudently declined, and had the resolu-

resolution to abstain from, excess and irregularity; the consequence of which was, that he was soon restored to a state of health as vigorous as he had ever enjoyed in Europe.

I could give a minute detail of many cases of recovery, in order to demonstrate the pernicious tendency of an unguarded indulgence in point of diet, and the happy effects of a different system; but I presume that what has been specified, and the observations which every one has had opportunities of making, will render it unnecessary: I shall therefore proceed to give a few directions respecting the diet of those whose

recovery is accompanied with fome particular complaint.

THERE is always a general feebleness and weakness of the body, which continue some time after a fever has disappeared; and these are in proportion to the nature and duration of the disease. It often happens that the general weakness remarkably affects some particular parts, and none fo commonly as the stomach and its dependencies. As a weak state of the stomach undoubtedly renders digestion defective, and nutrition imperfect, it is impossible the general strength can be restored whilst that complaint remains. In cases of recovery therefore, where it occurs, the

the principal aim should be to remove it. This weak state of the stomach produces other circumstances, which, united, occasion a very tedious and troublesome recovery: these are, acidity or fournefs, and flatulence or wind. Here the affistance of medicine must be called in: bathing and exercise will likewise contribute their share. But in all cases requiring the use of medicine, the furgeon should personally direct; and I reserve to a subsequent place the confideration of bathing and exercise.

In weak stomachs it is a standing rule, to eat little at a time and
often, and to let what is eaten be
of the most easy digestion and
K 2

the most nourishing nature. In cases of this kind, if the stomach is too much distended, its weakness is increased, and every other attendant complaint is aggravated. Milk; broths; eggs taken warm from the hen, and eaten either raw or foft-boiled; preparations of well-fermented bread; vegetable and animal jellies, as sago, salep; calves heads and feet stewed; turtle foup, &c. are nourishing, and of easy digestion. As the stomach regains its tone, more folid fubstances may be used, making a gradual progress, as I observed before, until its natural state is restored.

Sourness and wind, in weak stomachs, are produced by an imperfect digestion and assimilation of the food; therefore, the means of removing them are those which give the usual powers to the stomach. When this impaired digestion is accompanied with these circumstances, all vegetable acids, and bodies readily producing acidity, should be avoided. Animal preparations of every kind are the least liable to give acidity. Dr. Arbuthnot, in his Treatife on Aliments, points out the following vegetables as anti-acid, viz, cabbage, turnips, carrots, onions, leeks, radishes, and mustard. Rum mixed with water makes the best common liquor. Wine in K 3 every

every case of weakness is one of the most effectual articles we are possessed of, if used moderately and without intemperance *: however, in weak stomachs the greatest delicacy is required in using it, for it sometimes produces sourness. Red-wines are the most unexceptionable, and Port the least fo of any. Tea, or indeed any warm infusion, is hurtful to weak stomachs; every thing liquid should be taken cold: and as a substitute for tea, I would recommend a cold infusion of chamomile flowers, fweetened, and coloured with milk, which after short use becomes agreeable.

COSTIVE-

^{*} Vide the first part on Diet.

COSTIVENESS is frequently troublesome in the periods of recovery; and if there is no acidity in the stomach, a vegetable diet is the most commendable. Figs, raisins, pruens, grapes, oranges, tamarinds, honey, and cream-tartar, and water, may be occasionally used. In cases of acidity, a teaspoonful or two of magnesia will produce an effect. If these however fail, recourse must be had to more active laxatives.

Looseness sometimes retards recovery. When it is slight, and proceeds from too great acidity in the stomach, abstinence from vegetables, and small draughts of lime-water, or a little magnesia, K 4 taken

taken occasionally, will in general remove it. Looseness is a complaint that often continues, and proves dangerous; therefore, in all cases where it remains more than twenty-four hours, application should be made for medical assistance. In cases of costiveness, white-wines are the best; and in looseness, the red-wines, of which Port is the most astringent, are recommended.

A swelling of the legs and ancles generally attends recovery, in a greater or less degree, according to the state of weakness and relaxation; it goes off as recovery advances, and disappears when that is perfect. The feet and legs should

should be frequently rubbed with a slesh-brush; and if the swelling is considerable, and gives pain, a little oil with camphor or spirit of hartshorn may be used previous to the friction. If this swelling is attended with a more extensive dropfical disposition, the assistance of medicine becomes necessary.

THERE are other complaints besides those I have mentioned, that sollow the diseases of the West-Indies, and make recovery from them tedious and uncertain: but as they always require personal examination and advice, I omit giving any description of them,

THE preceding observations on Diet are principally directed to officers; but from them several things

things may be felected, as applicable to the foldier. Convalescents, orrecovering foldiers, continue under the direction of the furgeon; but when he thinks it proper to discharge them from the hospital, they must not be supposed to be perfectly restored to their former strength. The entire restoration of their health remains to be effected by a gradual return of their usual mode of life, which it is to be prefumed undergoes the regulation and inspection of their officers.

Considerable advantage, I think, would result from classing the men discharged from hospitals into separate messes, and bestowing more

more particular attention on their diet. If fresh provisions cannot be obtained, the salt beef should be soaked in warm water; which, frequently repeated, would extract its saltness, and make it more easily assimilated to the purposes of nutrition: and instead of boiling it in the common manner, it should be cut into slices, and stewed with mucilaginous vegetables.

Soldiers for some time after their removal from the hospital, should have an allowance of wine instead of spirit, and in every possible case fresh meat. Government, besides permitting this alteration in diet, would find advantage in giving a pint of porter per day to each man

in the fituation I have specified; and I venture to affert, that the increase in the pecuniary charge of the ration, would be very trisling, by honest management. In recovery, porter is a pleasant and useful liquor, and may be taken in moderation at any time when wished for; unless it disagrees with the stomach, which it sometimes does in cases of acidity.

DRESS

DRESS and EMPLOYMENT.

URING the day, the dress of persons recovering from difease may be loose and light; but where the weather is damp, rainy, or variable, woollen cloaths are the best. Persons much enfeebled receive very great advantage from a flannel shirt worn next to the skin: at first this may feel disagreeable, but a few days wearing will reconcile it. By wearing a flannel shirt, a thinner exterior cloathing can be used, which otherwise would be improper: besides this, the slannel has the effect of retaining natural heat, heat, the smallest degree of which, in cases of recovery, is valuable. It has another advantage, of preventing the unpleasant effects of perspiration, which linen always imparts.

Soldiers, after their difmission from the hospital, should be for some time permitted to wear only their regimental waistcoats and breeches, with woollen and cotton stockings; and this ought to be more particularly attended to in night duty, or in any other exposed situation. There may be a necessity for putting soldiers too early on duty after their recovery: in such cases, considerable benefit would be derived from, and bad consequences prevented by, the use be provided at the expence of Government; but if that cannot be granted, commanding officers would find advantage from making it an individual expence, rather than it should not be obtained.

I AM aware of the objections which have been made to the flannel shirt, from the supposed danger of changing it, or leaving it off altogether; but this will be found, upon trial, only imaginary. Weakness characterises recovery, which advancing the constitution regains its natural strength. When the constitution is perfectly restored, no prejudicial consequences will follow the laying aside of the slannel shirt: until that, however, is effected,

it may be proper to retain it. I have seen good effects in the cases I have mentioned from the use of it; but I have never been able to observe any bad effects from its disuse, after recovery was completely effected.

Soldiers should have more attention paid to them, to clean-liness, and neatness of dress, after they are discharged from the hospital, than at any other time; because diseases are apt to leave a languor and lowness of spirits, which beget, if not prevented, dirtiness and indolence.

THE observations under the article of Employment, on the means of preserving health, may be partly introduced here;

parti-

particularly those which relate to going to bed early, and rifing early, and to maintaining an active and cheerful state of mind. In every case of recovery, good and welltimed fleep affords sensible advantage: indeed, we can from the foundness of sleep often date the certainty of recovery, and even the period when that will happen. By it all the natural powers are strengthened; being relieved from their ordinary action, they return to it with an increase of vigour. From rifing early, the pleafing fenfations of a cool air, and the proper time of exercise, are obtained; besides, the bad effects of morning sweats are prevented. There is nothing that retards recovery more L than

than profuse perspiration; it not only proves the degree of relaxation and weakness, but always increases it. This injurious perspiration most frequently occurs early in the morning; in which case, it should be an invariable rule to forsake the bed instantly, and have the skin well rubbed with a dry cloth, or a slesh-brush. It is best to rise, be it ever so early; even though, by doing so, it may be necessary to lay down for a short time, some hours after.

Exercise of every kind is an effecting recovery, and it should be proportioned to the feelings and state of strength. The mornings and evenings are the only proper periods of

his appearance, before riding or walking is attempted, and either may be continued one or two hours; and the evening exercise should commence about two hours before his setting, and terminate almost immediately after it. By this mode you avoid the damp atmosphere of the morning and evening, which ought always, but more particularly in cases of recovery, to be shunned and guarded against.

Soldiers who cannot use the most eligible exercise, have a good substitute in the morning and evening manual manœuvres. Soldiers when they are discharged from the hospital should be marched out, and

exer-

exercised every dry morning and evening, until they have entirely regained their former state of health. They should not be sent too early on any exposed duty; the commanding officer can always employ them in some way in which they will not feel the vicissitudes of weather.

In every period of recovery, and particularly in the early stages of it, exposure to the sun, except at the hours I have mentioned, should be carefully avoided; but if necessity will not allow this indulgence, the directions for preventing its effects ought to be more punctually attended to. I have often seen relapses, and even death, follow an impru-

imprudent continuance and exercise in the sun, in cases of recovery.

BATHING in the fea, in rivers, in domestic cold baths, or by the fimple process of having two or three pailfuls of cold water thrown upon the body, is of the highest importance in facilitating recovery. In the first stages of recovery, the furgeon should be consulted; for there are certain circumstances which may render bathing improper, or require a great deal of circumspection in its use. If medical affistance cannot be obtained, it should be a rule never to bathe in cold water, whilst any particular complaint exists: for example, a headach, cough, pain in the L 3 breast

breast or bowels, or any fimilar affection. After bathing, if any difagreeable feelings arise and remain, it ought to be discontinued: but if it is followed by active and cheerful sensations, evidence is given that the best effects may be expected from it. Early in the morning is the fittest period to bathe, and I would prefer the shorebath, or the throwing two or three pailfuls of water over the body. The shock by these methods is greater than by the others, and it may be increased or diminished at pleasure. When a chilliness continues some time after bathing, it shews that the shock has been too great; in which case it will be proper to lie down in bed, and drink drink of any warm liquid. The pleafing glow which succeeds the healthy bathing, may be generally obtained by the preceding mode of returning into bed and drinking something warm, or by rubbing immediately after bathing with a sless where bathing is used, I recommend rubbing with a brush, or a piece of slannel, until the external part of the body becomes agreeably warm,

Soldiers, during recovery, never should be permitted to bathe without the direction and inspection of the surgeon; and when they return to duty, they ought to do it under his eye, or the prudent and watchful conduct of their officers.

THE

THE diseases of the West-Indies are always accompanied with a particular depression of mind, which is very apt to continue, and will certainly retard recovery. An anxious and low state of the mind is always produced by, or connected with, a weakness, or an impaired frame of the body; and this fituation of the mind, instead of being merely an effect or attendant of the valetudinarian habit, becomes an active cause and strong support of it: it therefore should be a constant aim to be lively and cheerful

Officers are apt to indulge the wish of getting to Europe; and if they solicit for permission and are refused, they become dejected and fretful

fretful, circumstances which oppose the restoration of health. On
such occasions, that manly fortitude and perseverance which
are the characteristic qualities of a
soldier, should be peculiarly exerted, The conversation of a
friend, the sprightly humour of a
social company, and the virtuous
indulgence of that inclination
which leads the British officer into
the semale circle, ought to be alternately adopted.

I AM now to subjoin, with occasional Notes, a few Observations and Rules selected from Dr. Tissor's ingenious "Advice to the People;" People;" published and translated by Dr. Kirkpatrick, in the year 1771.

THE term of recovery from a difease requires considerable vigilance and attention, as it is always a state of feebleness, and thence of depresfion and faintness. The same kind of prejudice which destroys the fick, by compelling them to eat during the violence of the difease, is extended also into the stage of convalescents, or recovery; and either renders it troublesome and tedious, or produces fatal relapses, and often chronical distempers. Whenever the fever is compleatly terminated, some different foods may be entered upon: fo that the patient tient may venture upon a little whitemeat, provided it be tender; some fish; a little slesh soup; a few eggs at times, with wine properly diluted.

In must be observed at the same time, that these very proper aliments, which restore the strength when taken moderately, delay the perfect cure if they exceed in quantity, tho' but a little; because the action of the stomach, being extremely weakened by the disease and the remedies, is capable only, as yet, of a small degree of digestion; and if the quantity of its contents exceeds its powers, they do not digest: frequent returns of the sever supervene.

Every bad consequence is prevented by the recovering sick contenting themselves, for some time, with a very moderate share of proper food. We are not nourished in proportion to the quantity we swallow, but to that we digest.

A Person on the mending hand who eats moderately, digefts it, and grows strong from it. He who swallows abundantly, does not digest it; and, instead of being nourished and strengthened, he withers insensibly away.

RULES,

RULES.

- vering take very little nourishment at a time, and take it often.
- of food at each meal, and not change their food too often.

Note. This rule I think too abfolute; a person in recovery may with care indulge his taste of variety in substances of easy digestion, and of a nourishing quality.

3. Let them chew whatever victuals they eat very carefully.

4. Let them diminish their quantity of drink. The best for them in general is water, or toast and water, with a fourth or third part of white wine. Too great a quantity of liquids at this time prevents the stomach from recovering its tone and strength; it impairs digestion, &c.

Note. An exception may be made to one part of this rule refpecting wine, as in cases of looseness, and where an acidity or sourness prevails, in which I would recommend red in place of white wine; and in every case I think a glassful of pure wine may be ventured upon, and repeated according to the degree of recovery.

5. Let them go abroad as often as they are able, whether on foot, in a carriage, or on horseback. This last exercise is the healthiest of all. If exercise is taken soon after a meal, it impairs digestion.

Note. The first part of this rule, relating to the mode of exercise, must be conducted in the West-Indies with the greatest circumspection and care; and the periods for exercise which I have formerly pointed out should be chosen.

6. As people in the state of recovery are seldom quite as well towards night, in the evening they should take very little food. Their fleep will be the less disturbed for this,

this, and repair them the more and fooner.

Note. This is a very important rule, and ought to have every compliance given to it. Light suppers in a state of health are only commendable in the West-Indies.

- 7. THEY should not remain in bed above seven or eight hours.
- 8. The swelling of the legs and ancles, which happens to most persons at this time, is not dangerous; and generally disappears of itself, if they live soberly and regularly, and take moderate exercise.

- 9. It is not necessary in this state that they should go constantly every day to stool; though they should not be without one above two or three days.
- 10. Should they, after some time, still continue very weak; if their stomachs are disordered; if they have, from time to time, a little irregular fever; they should take some doses of bark daily, which fortisies the digestions, recovers the strength, and drives away the fever.

Note. This is a rule that does not come within the limits of my Observations; it relates to the use of medicine, the consideration of which

which I have all along avoided; because I advise the surgeon to be consulted in every case where that becomes necessary.

11, and last. They must by no means return to their labour or usual employment too soon.

THE END.

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color within the dimine of my

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