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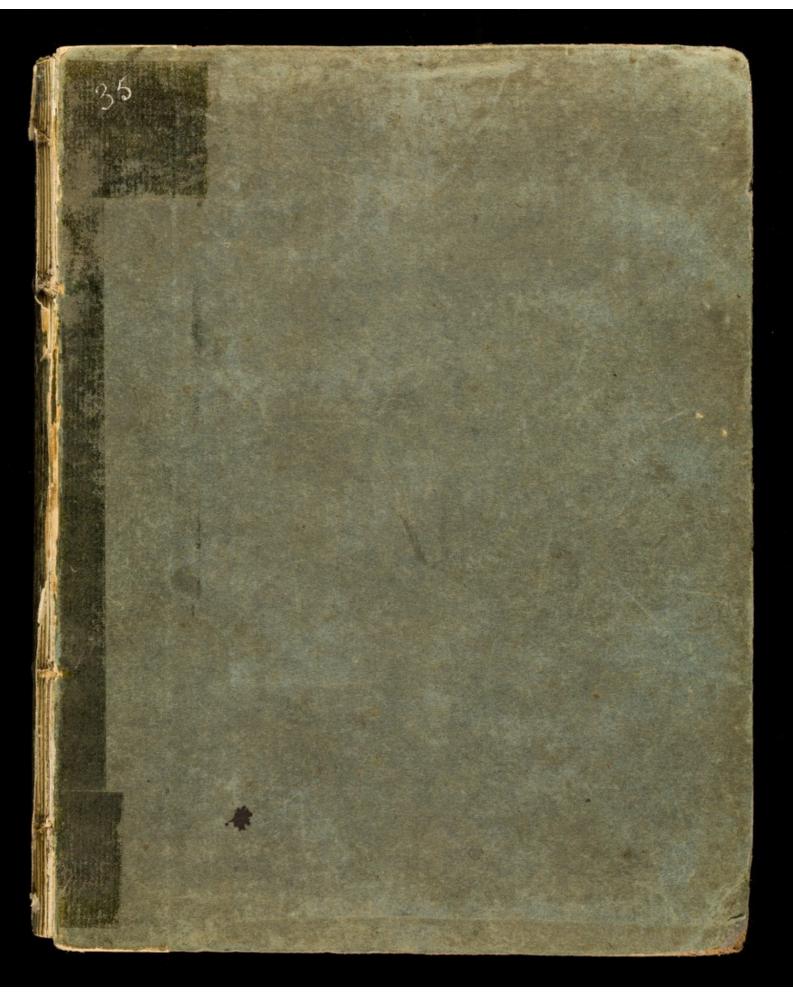
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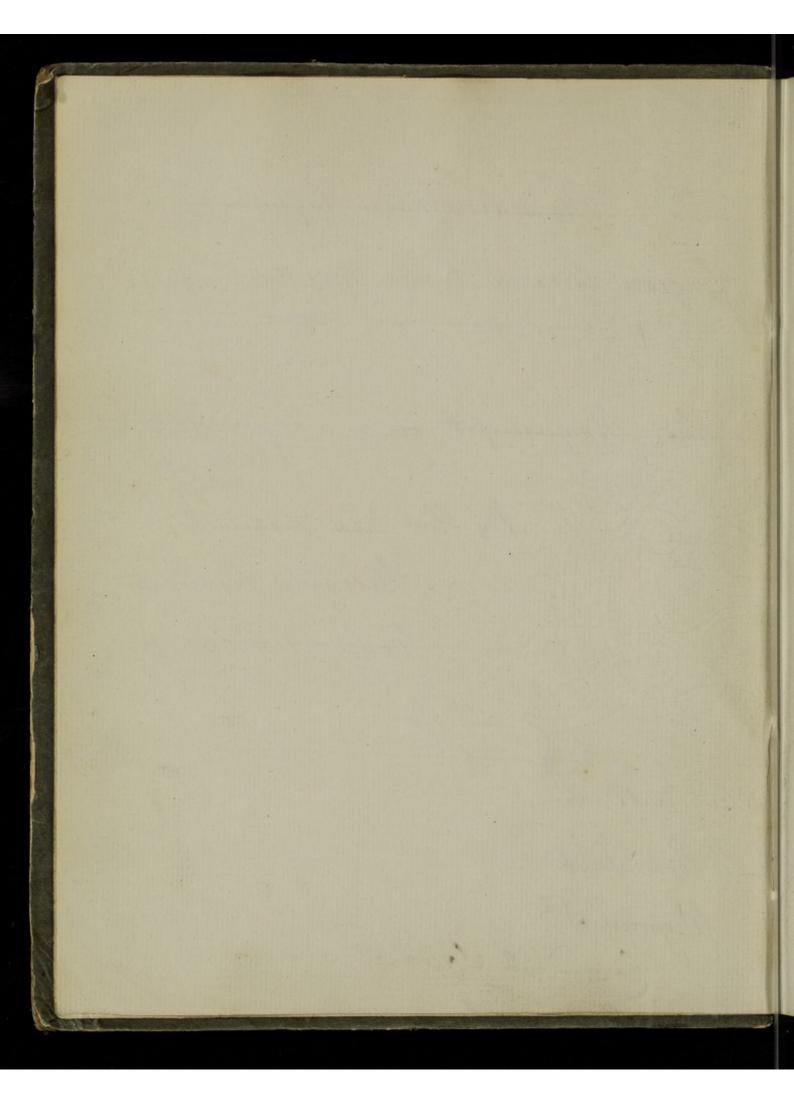


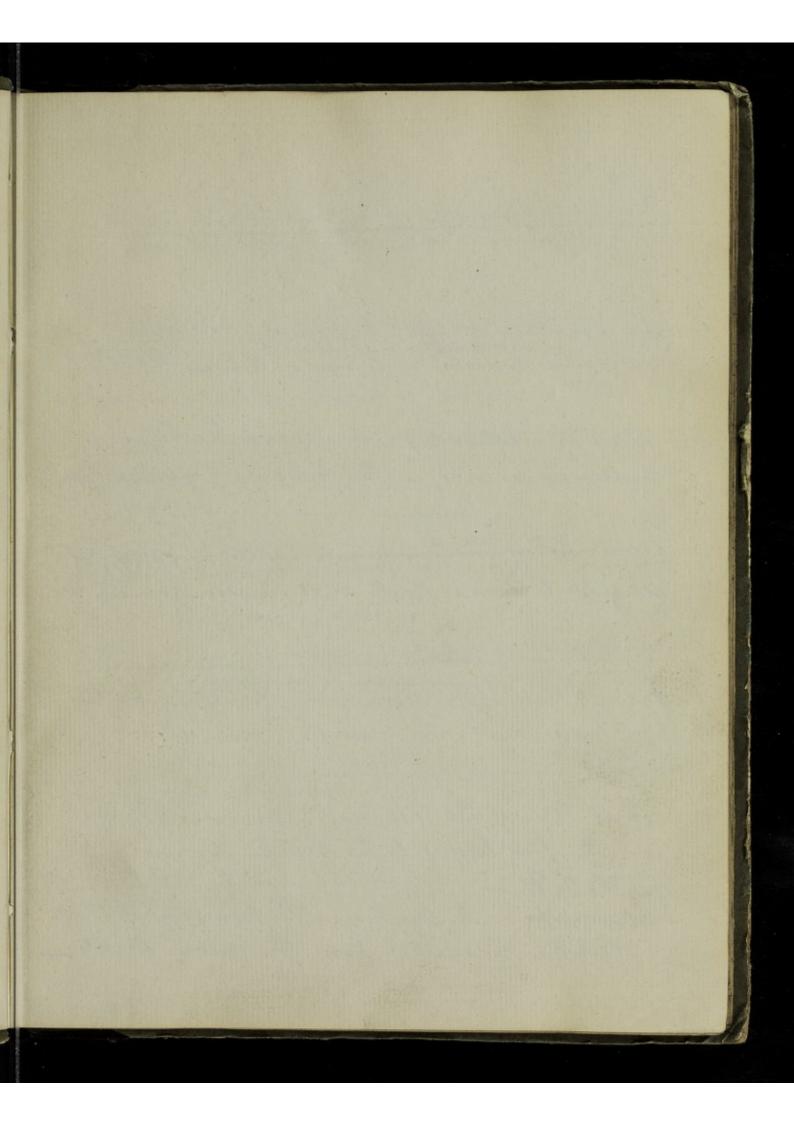
R.A.MI.C MUNIMENT ROOM To Thomas Reate Esquire Surgeon General to His Majesty's Forces Je Je This Manuscript is humbly presented By His most Hedient Humble Lewant hoder Dukinson

11 Ceil Strut Arand_

1th September 1800

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Cavindial Squar





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- 3. Remarks on the producing Causes of yellow Fever" addressed to Thomas Keate Esque Surgeon General te

also;

- 1. General State of the Thermometer & weather in the West Indies during the years 1805 1806 1807 4 hart of 1808 -
- 2. General State of the Weather V- during a Voyage from the West Indies to the British Channel _
- 3. Some remarks on the weather in the hummer of 1808. in England, transcribed from the public prints_

Letter the First

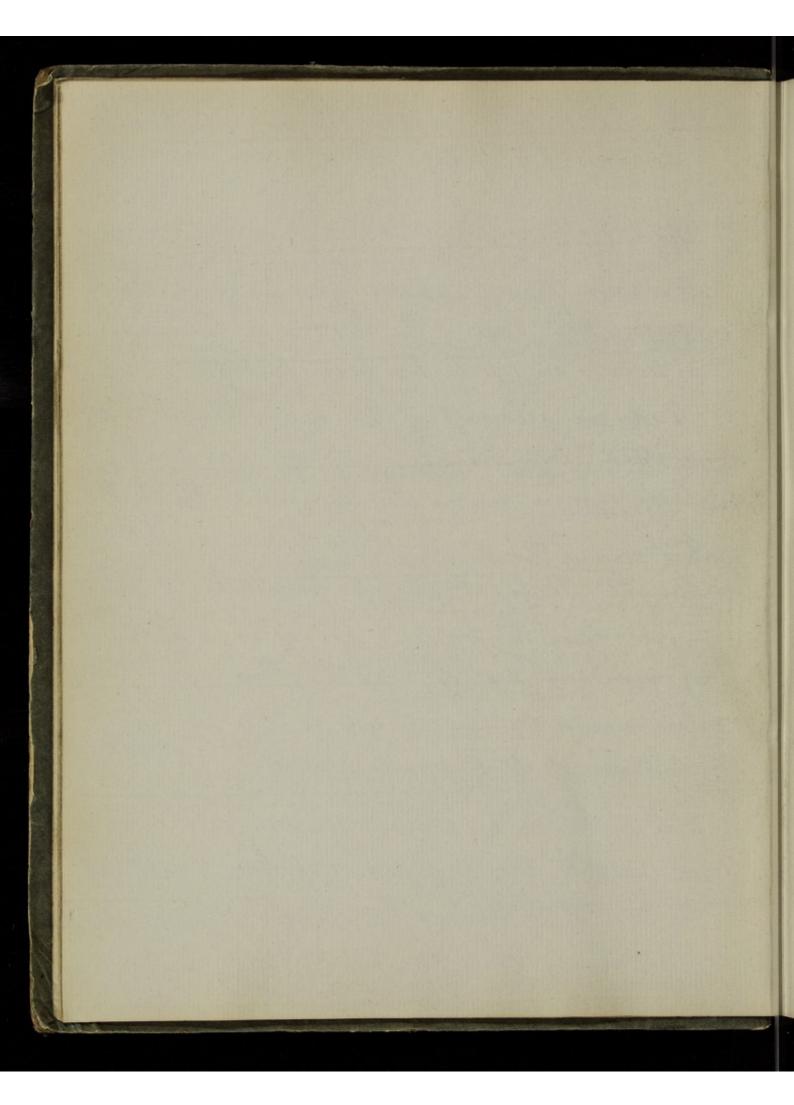
Containing Remarks on change of Climate, Considered as a Means of restoring the Health of Europeans, exhausted by Disease in the West Indies.

written in 1797 - transcribed - and presented to His Excellency Major General MaiHand The Governor of Grenada in April 1808 -

> R.A.M.C MUNIMENT ROOM

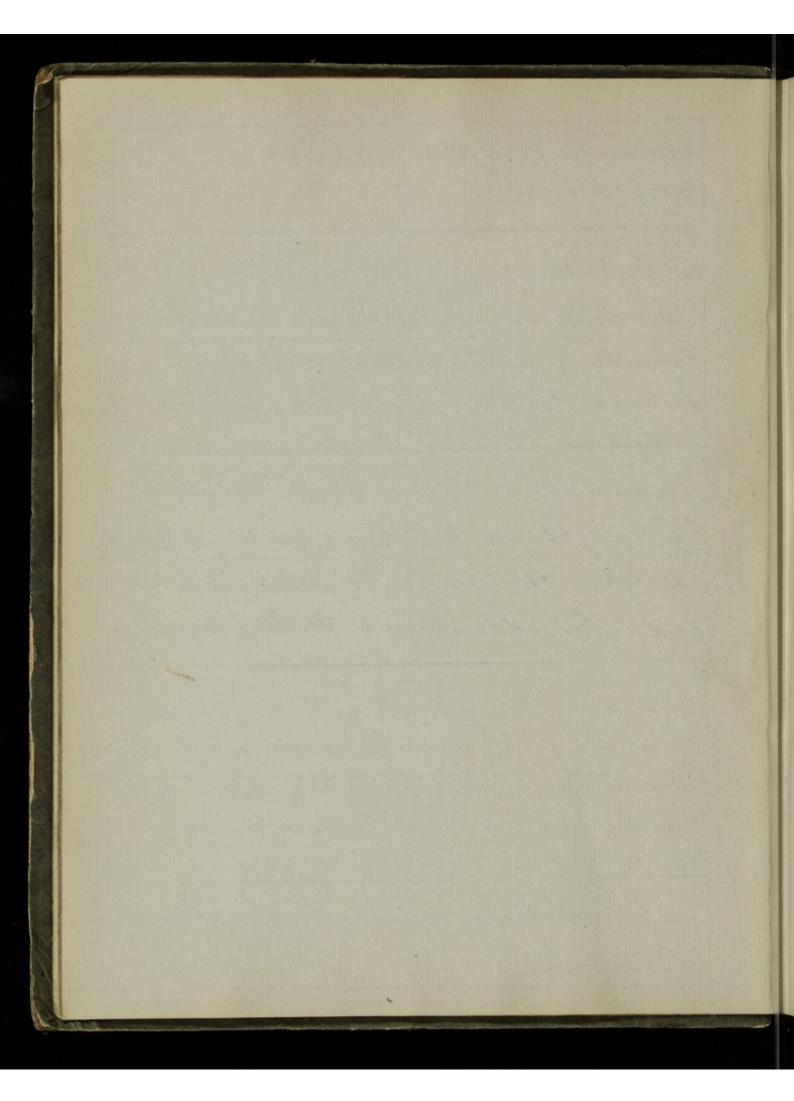
1. Note to His Excellerry Major General Markand Had not the probable intention of sending invalids from this Command to Halifax become The subject of professional Remark: I should not have presumed to present you with an altered copy of some Observations on this head - first committee to paper in 1797_ Should they afford a feeble testimony of the advantage of the proposition they are wont to establish: - I feel myself professionally bold to say that, subsequent exprenence would give additional and important proof - could the arcumitance of enlarging on the original communication be biought forward with sufficient utility to authorize the Freedown of further truspels on your Excellency's Luine I have the Honor to be Grenada for your Bedient Humbh Lewant Roder Duhimm 20 April 1800 -

To His Excellency Major General Maitland Governor of Grenada & Ge ye ye Sir It is more than probable were we carefully to revise that Page of the History of human affliction, in which has been faithfully regis= tered an account of the Devastation com: mitted by Sisease amongst our brave Countrymen under the climate of the torned Jone - that an useful lepon might be taught which it were to be sincerely hoped would tend to prevent hereafter a repetition of similar distress; as the Remedy of this Wil would be discovered in the Contern --plation of its original source. But whether by an Enquiry into past calamity we might the more successfully, I without the fear of incurring the charge of presumption recommend to public Consideration the

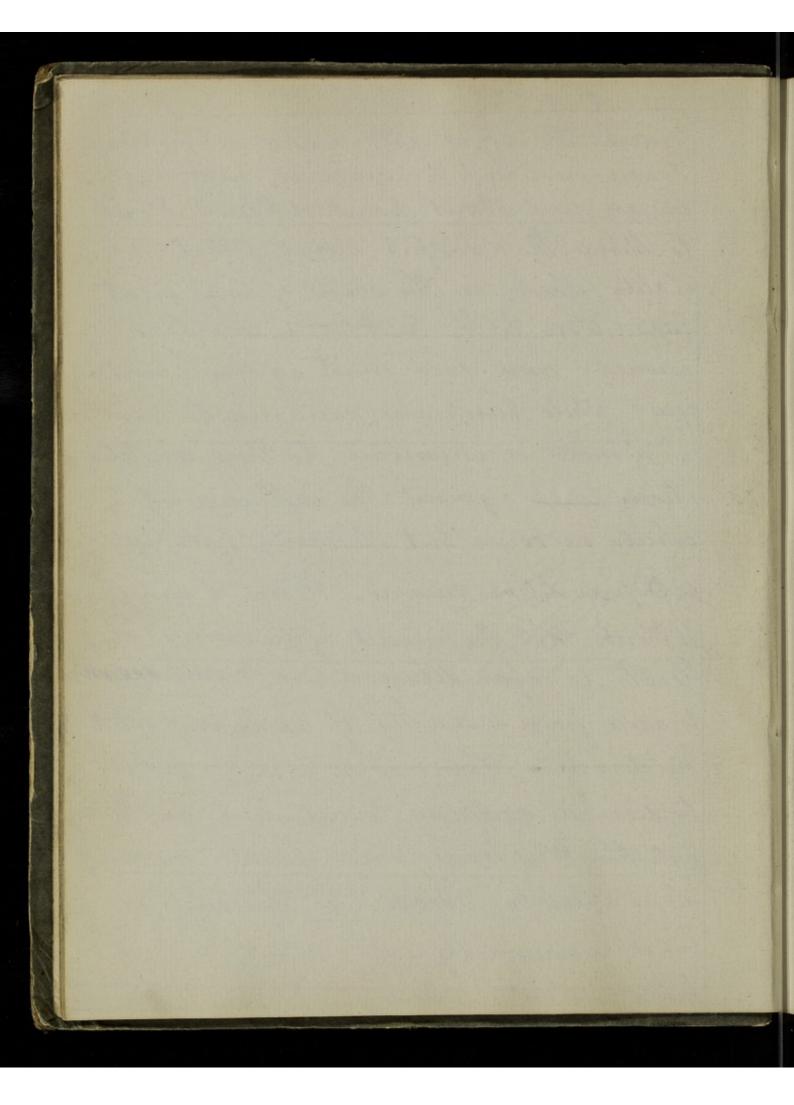


The means of guture alleviation to suffering humanity, is a Question I will not dane to enter whom here: but in the hope of induly gence for unconscious Error - & confiding in the Virtue of a sincere desire to contribute Though in an inferior degree and limitted capacity) to the welfare of those, in future destined to serve their King and country in tropical Regions: I will endeavour to recommend a Means which Eapenence has taught me to believe would, if closely adopted, conduce to the Cause of humanity and to the advantage of His Majesty's Service.

The general Plate of Health, within this Command, bearing a much more favorable aspect Than when there cursory remarks, (which I have now the peculiar Honor to lay before your-Excellency) were first put to paper in 1797— for some time raised a doubt in my hind, both as to the Recepity of indeed the propriety of making them an object of present



present attention: __ until, having re-con= - sidered the subject with mature deliberation, I am inclined to regard it, as formerly. in an important point of View. I call to Mind the dreadful extent of that mor-= tality, which in the event of any great Expedition to the West Indies, ever has ensued: and ever must again inevitably recur while Europeans continue to visit a climate so inimical to their constitue: - tions against the influence of which we seem but slenderly provided with preventive means. Hence I am led to think that, the present appearance of Health is so far delusive : as it only seems to arise from a scarcity of newly improvted europeans - Whenever it may, in future be deemed necessary to introduce an Army into the West Indies: every former scene of devastation by Disease Viti Consequences must unavoidably suffer repetition to its fullest extent: unless certain preventive



Powers, can be applied; or the fatal consequences from Disease When it has gone its course, be arrested, by the application of a proper remedy to regain former Health —

It is to this latter Consideration I purpose to give my present attention. — The means of Prevention may, with your Excellency's permission, occupy the Pages of some future Letter—

From his first arrival isthin the Tropics, the European becomes the subject of certain diseases, which very principally take their rise from the change his constitution undergoes, by a sudden and important transition— (within a few tocets probably) from a Degree of extermal Temperature below 30° of Farhenheits Thermometer to 88° in the Shade _ 125°-130°, in the Sun on the same Scale _ and this is permanent. or nearly so

how whether from accidental arcumstaines. The derangement of the System consequent to such rapid alteration from the one to the + This suggests the remarks that, in an enlightened & able discussion of the Subject (here)
but very imperfectly touched) the consideration
of the Effects produced by the operation of
Climate on the Mind would claim peculiar
attention. I have long been led to form an
opinion. That the influence of the mind under
the several Plages of bropical Bisease would, if
rightly investigated & sagaciously managed.

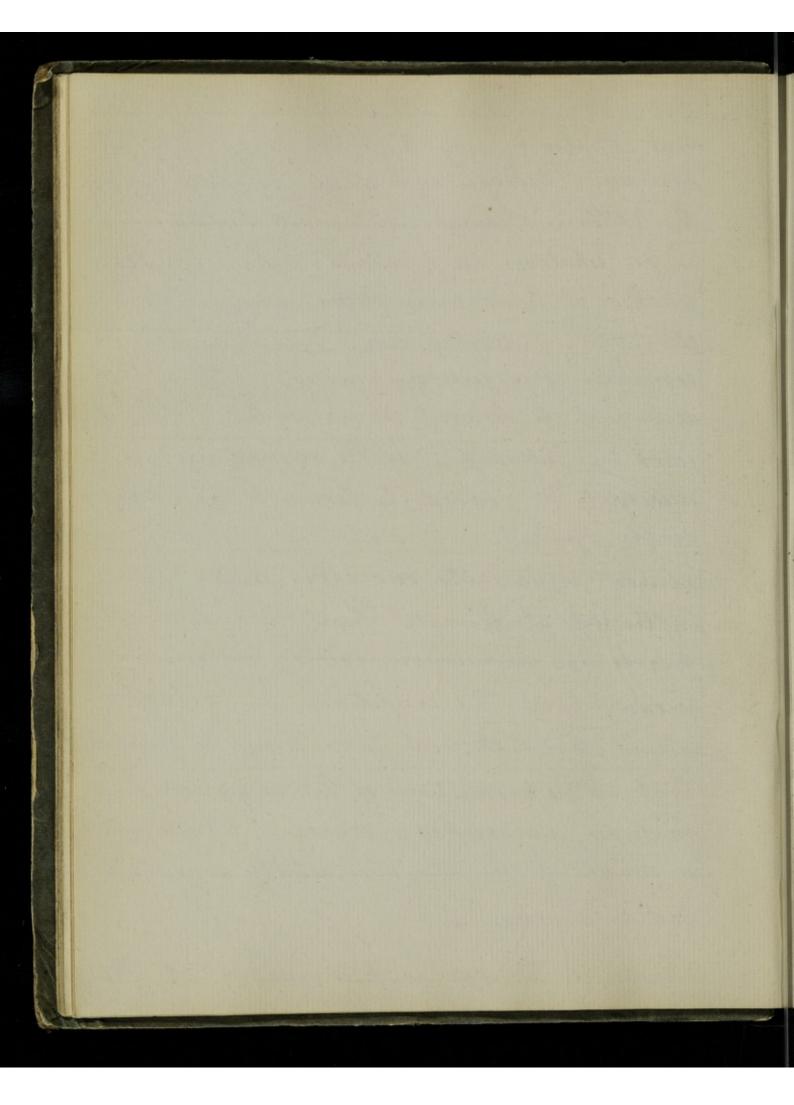
prove of great benefit to the well being of
the such Soldier -

other extreme of at morpherical heat furth other changes proves at one severe as in the event of ardent Fever & & or, on the contrary, gradually undermines The constitution by insidious approaches: with-- out appearing to produce any formal attach of acute disease; or, after a long residence presents the enervated & worn--out system to the influence of morbid howers, against whose operation native viquor had hitherto made successful opposition: In either case the result will be found much the same: for should he (The european stranger) survive, we find him soon losing every former trace of a once healthful Frame: While a sallow complexion, un-energetic Mind, and a state of indigestion, visceral obstruction, & general emaciation I. - manifest the consequence of his transplantation into a foreign V unfriendly Soil -

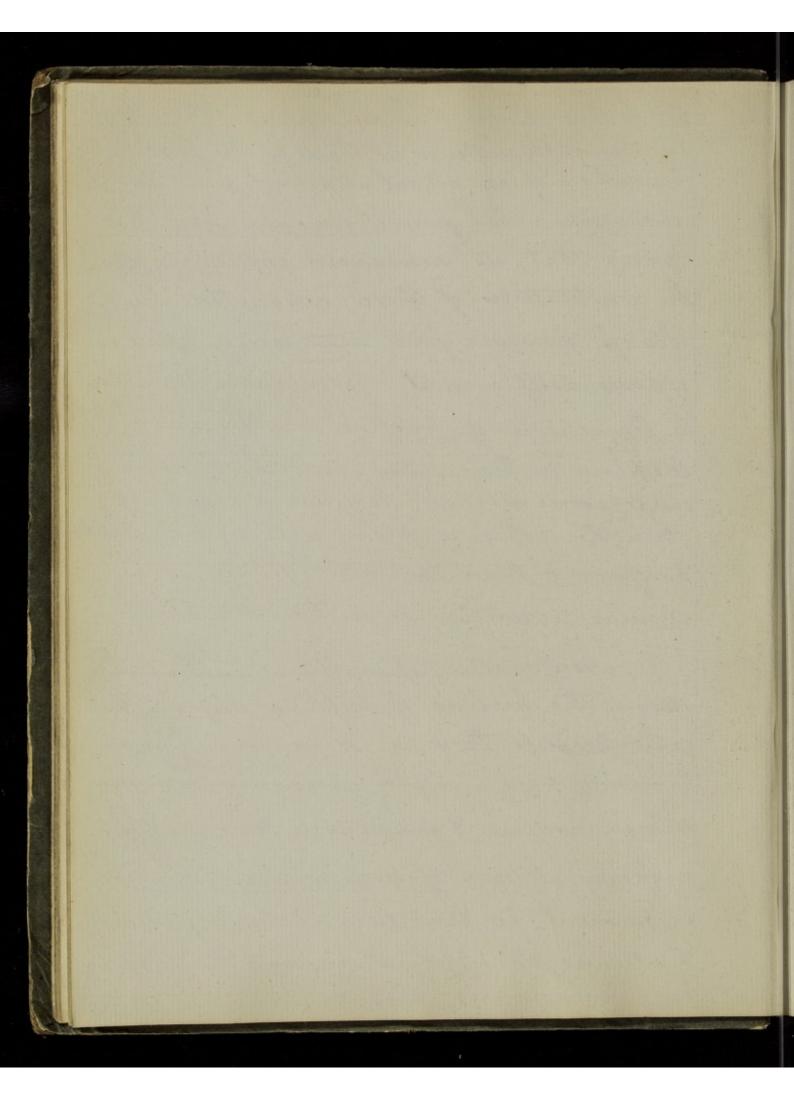
1. from change of climate 2. from Seasons or marshy rituations

3. as sometimes occurs in Phips -

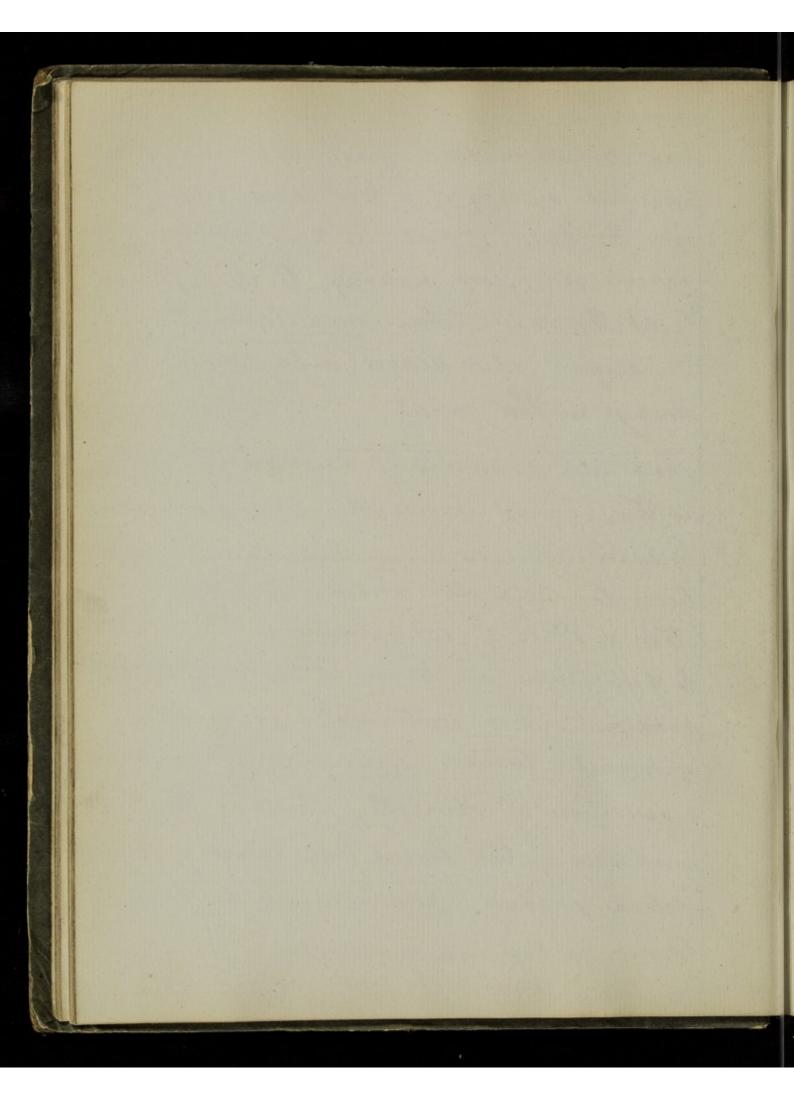
I am therefore induced to remark, in the next place that, whatever may have been originally the particular Desease with which we shall suppose The horthern stranger in the west Indies afflited - or, whatever its preculear exciting lauses. Whether it have been Fever endemin, epidemie, or contagious, Dysentery & a common consequence ensues. After the decline of its formal paroxysim: When the fever has subuded - or the symptoms of dysentery & ceased to townert the mise. nable patient: _ a state of Debility almost invariably succeeds: and The influence of climate Then, very evidently proves an insurmountable obstacle to recovery from this condition: __ notwith: - standing we should take leave to suppose that, in the production of the original malady, an exceptive degree of temperature or change of climate, abstractedly considered: had no concern -Thould it therefore be presumed that, the



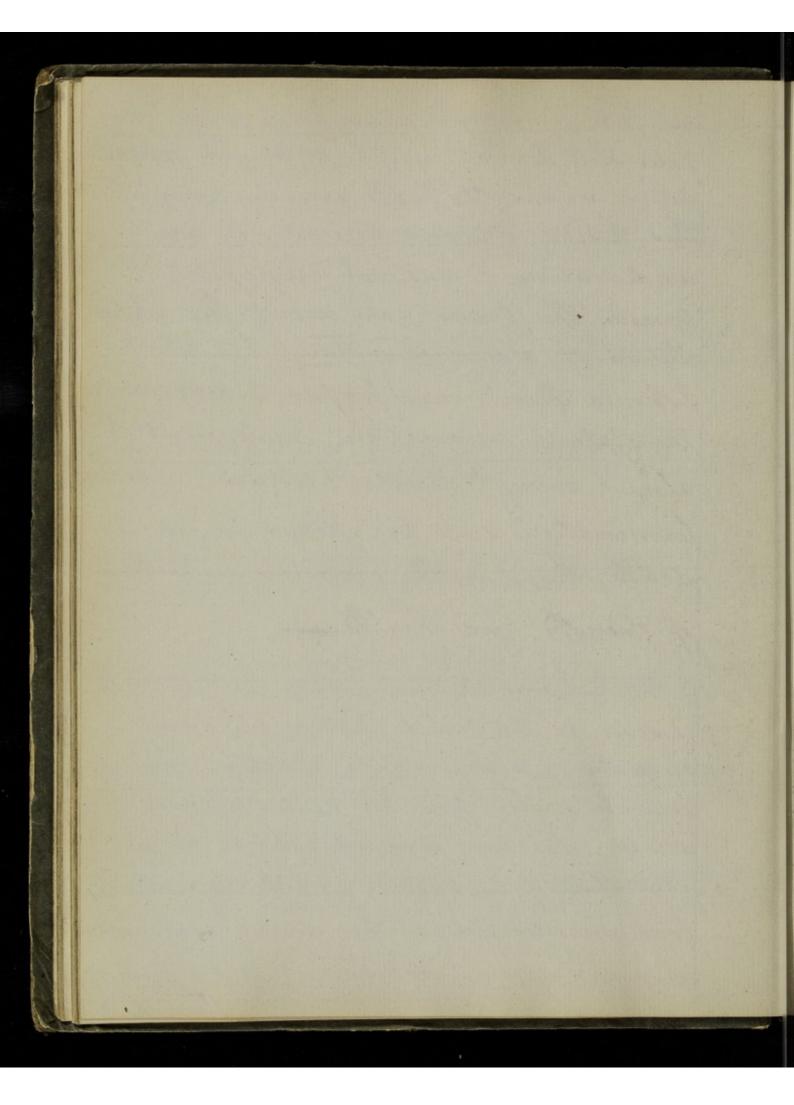
the heat of tropical Climater (continued & permanent, has frequently little or no share in the first I moduction of an actual attach of acute disease; - Experience has given unequivocal teste = mony that, its subsequent influence, on The constitutions of those eahausted by illness however first arguired; - often opposes itself a most formidable Barrier to the return of priotine health _ Europeans in their native Country, having undergone disease, re-gain a degree of Strength within a few days or weeks: which no space of time can accomplish, under similar arcumstances, in this Climate _ The insuperable difficulties which often attend the healing of trifling ulcers - the rapid progress they are sometimes known to make, from a slight abrasion of the Cuticle to large, invoterate, & gangrenous Soves; the in-efficacy, at times, of every medical Hungical instrument for their lure; however judicious I esteemed its application; and the surprize ing improvement they make whenever



recourse is, providentially had to change of air and Climate: afford equal testimony of the howerful agency of a West India climate over the lives of such as have not been accustomed, from nativity to its Influence; I, at the same time, manifest the wonderful advantages to be derived by change in this respect: The State of debility I have mentioned, as the almost invariable consequence of tropical Lisease: has, in my opinion, been too vaguely considered & denomina ted, a State of Convalescence. This I take to have been an Error, at times of singular moment. For instead of a gradual approach towards recovery by the daily arquisition of strength, which is the condition of the living body expressly inv. - plied, in my apprehension by that term; a case in direct opposition here presents itself; harnely, a depression

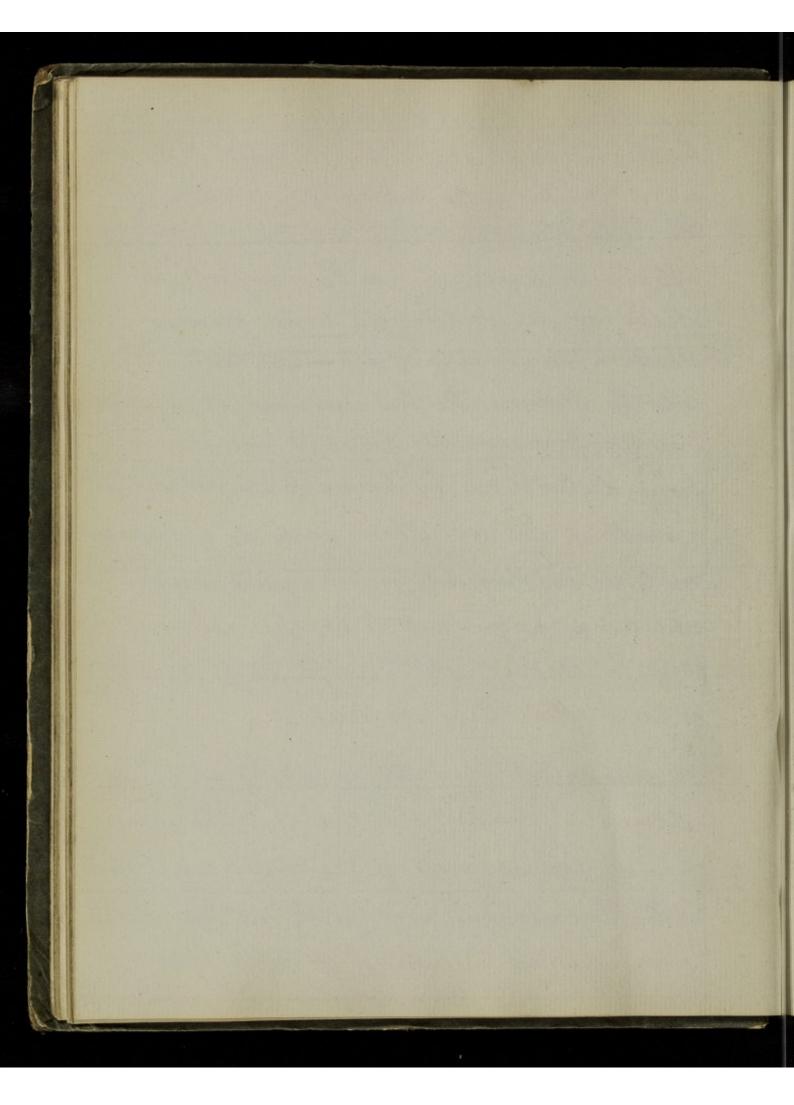


depression of Trength, which every moment falls still lower - until, at length, exhausted nature sinh, & Beath usually terminates this period of convalescence; if an undeviating I constant progression towards the Growe can merit the appel-= lation of a recovering State: but which, I should think more proper to denominate The state of emaciation consequent to almost every tropical Disease: whose termination will be oftener found in death, than in the gradual restoration of strength and health of the humbers who have fallen the Victims of Disease in this Climate, within my own observation: a considerable proportion have escaped safely from its acute &formal attach; The have lingered afterwards in that state of exhaustion, which has already been mentioned as the usual consequence of severe morbed condition_ at this period

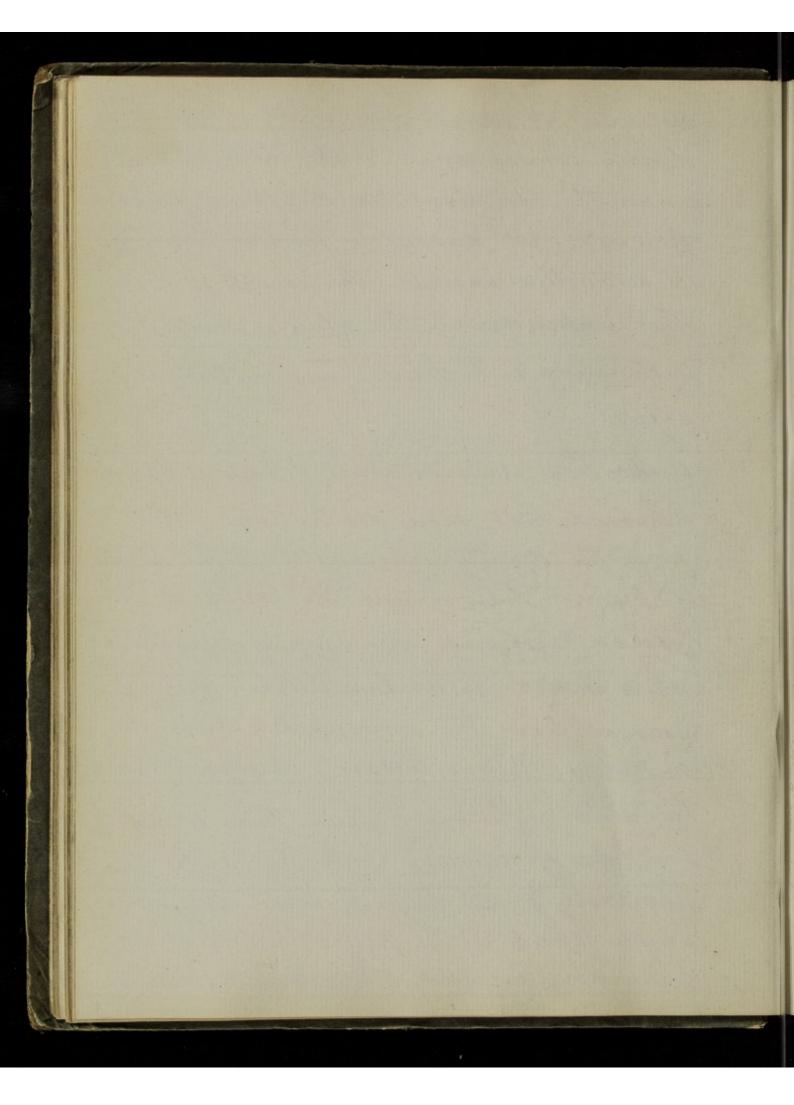


maintained _ nay indeed hourly augmented by the enervating action of Climate. Thus every further hour subtracts a portion of The little strength & Life remaining; until after a continuarie in this enfeetled state for an indefinite time, during Which a miserable proportion have such into the Grave; the few remains of a once crouded Convalescent Hospital are saved from destruction by being brought before a medical Board: When, such as on exam - ination are deerned proper Objects, being invalided and sent to Europe; seldow fail to recover on their passage home, or soon after their Arrival -On a consideration of the foregoing circum = - stances. I cannot but lament the detention of Convalescents of the above description,

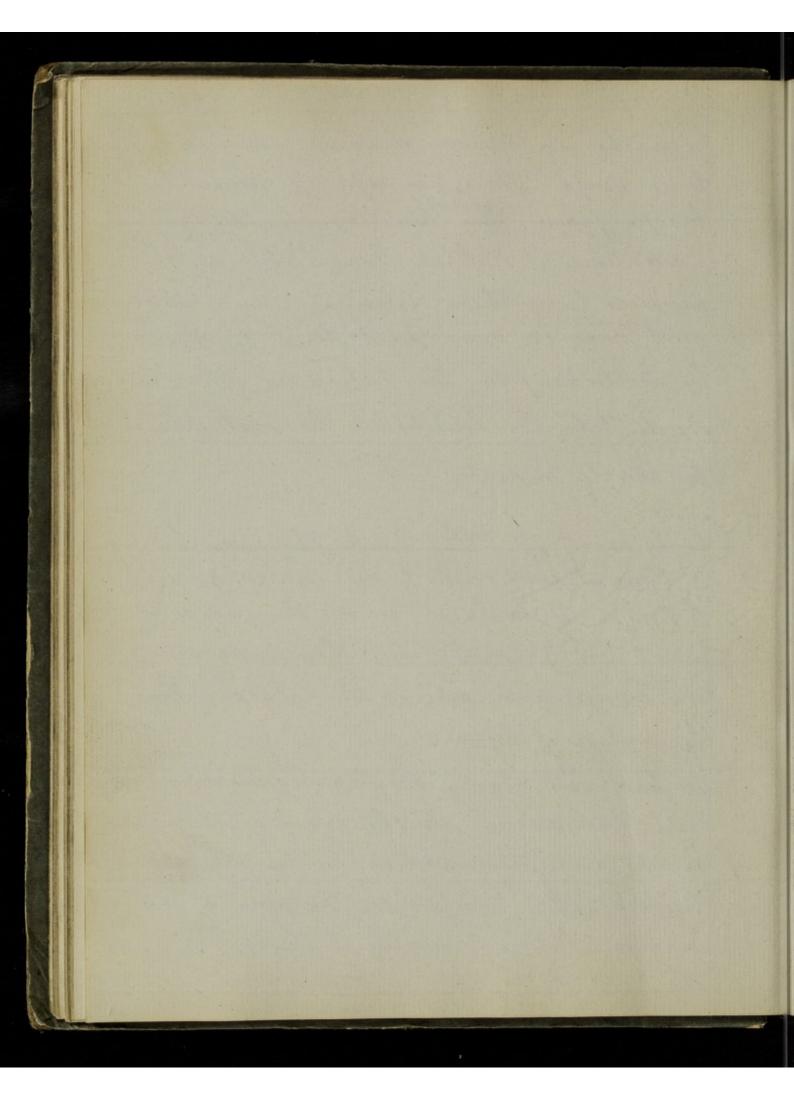
with the erroneous and fatal hotion of their recovery under the powerful influence of a tropical Pun; in a Country where marshes



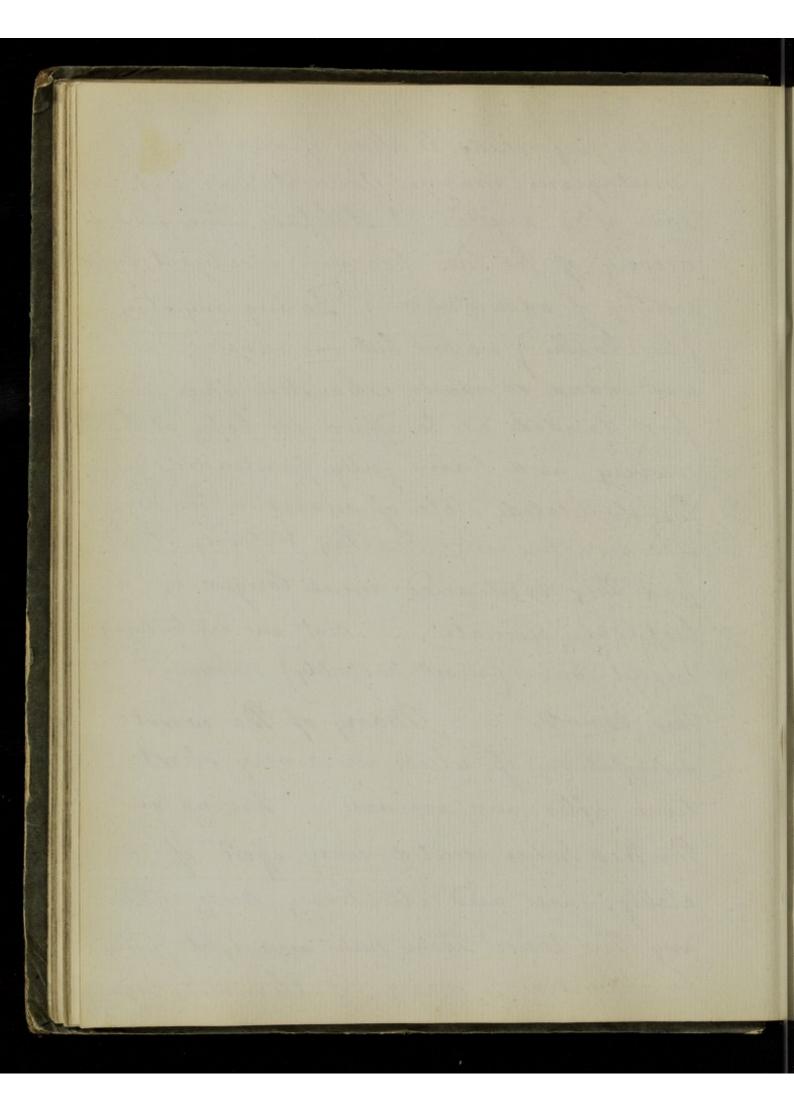
surround so many of the military positions of any consequence: and lastly, where under the best regulated discipline, intern-- perame will always be found to make its destructive invad - The parent of every other imprudence- the effects of which, when co- operating with climate, are in ten-fold degree -Under These circumstances, I have already remarked that, more deaths take place from the debility consequent to the attach of Disease, Than during the period of its formal paroxysin. This, in my opinion is much indeed to be lamented; as by removal from the immediate cause of mortality - here a tropical climate; funder The further influence of which there is not? any hope of recovery; both the Cause of Humanity & His Majestry Service would be valuable Defenders of their King & Country.



In confirmation of the Truth of the above remarks, an obvious instance occurred some time since: Then an expected return to europe from this Country, was delayed by a detention at Halifax hova Pcotia, with invalids from these Colonies - and which as it may in some part tend to elucidate by an Example, The preceding observations; I will take the liberty, in the next place to buefly narrate -Early in 1797. The black Charaites from It Vincent were sent to the island of Quattan, to leeward of Samaica, under the guard of, about 300 invalids: from Theme, we continued our Voyage and arrived at Haliface - the beginning of June. We had now nearly 100 lik requiring med = ical attendance. chiefly cases of extreme debility from previous fever or bowel complaint; together with a considerable humber of old inveterate ulcers; many of which were more Than of 18 Months continuance.

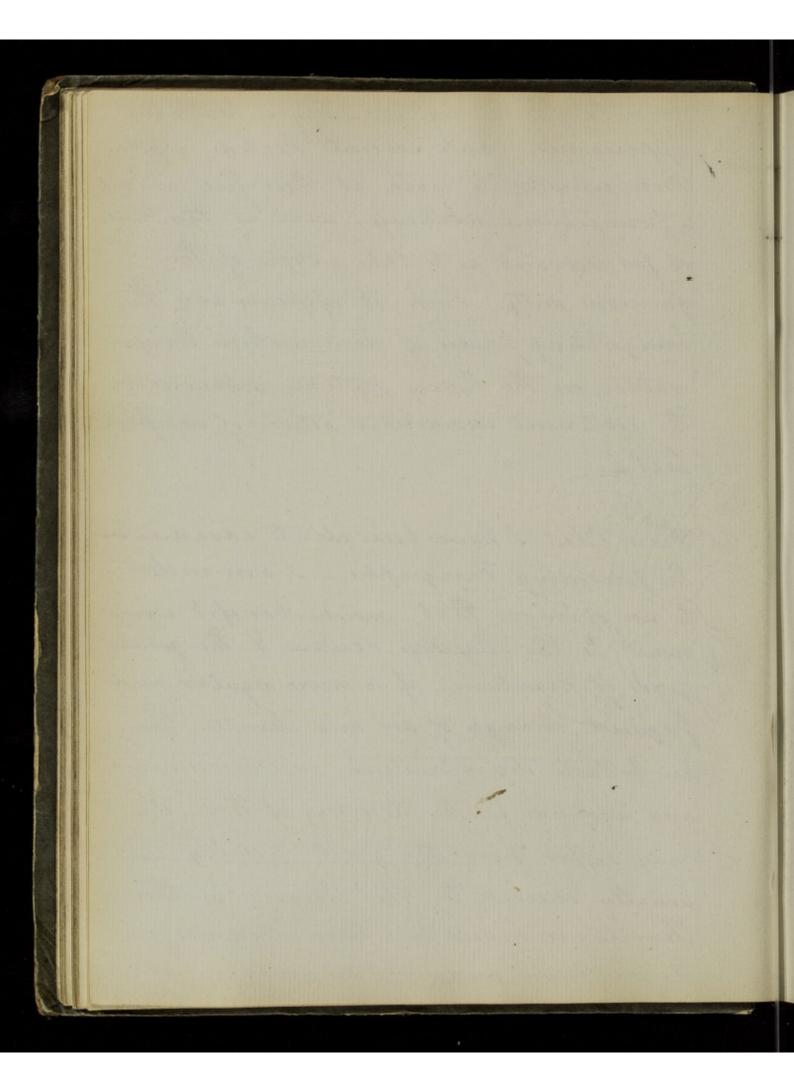


our Pafrage from the tropies had been too quickly performed to allow of much ad = - vantageous change while at Jea; but soon after arrival at Halifax, the general recovery of the Tich became a subject, well worthy of admiration. During my stay (two Mouths) we lost but one invalid : who was indeed so much exhausted when he first landed as to afford no hope of his recovery: and I am fully persuaded from the debilitated state of many on the Voyage who now became healthy &strong; that, had they continued much longer in a tropical climate; - not one in twenty would have (most probably) survived? this period. Many of the worst description of ulcers, in a very short time after our arrival - having in The West Indies resisted every effort of ability, care and attention, now, without any other Course than such as might justly be attributed to change of Chinate; began

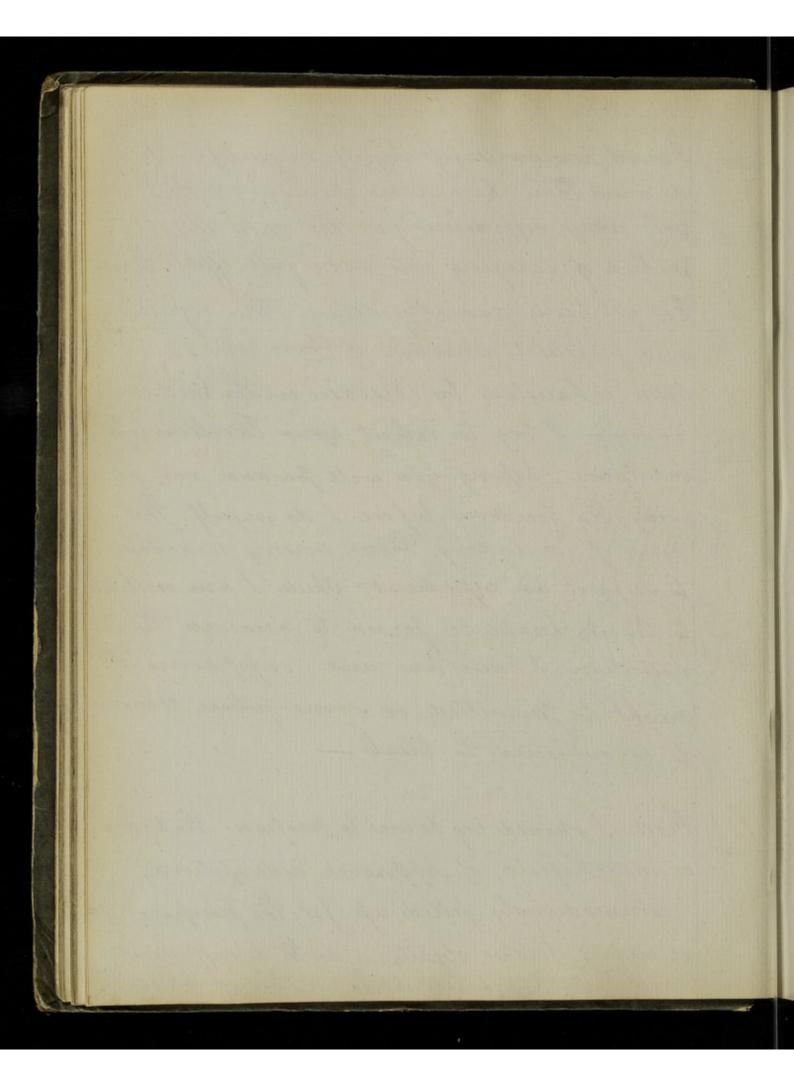


began to assume very generally a healthful appearance; and several healed: while men unable to walk at their first arrival from extreme weakness; were, at this time to far recovered as to take a share of the garrison duty. Such, it appears were the invigorating powers of diminished tempes rature on the living system, cahawted by the continued inordinate action of exceptive heat —

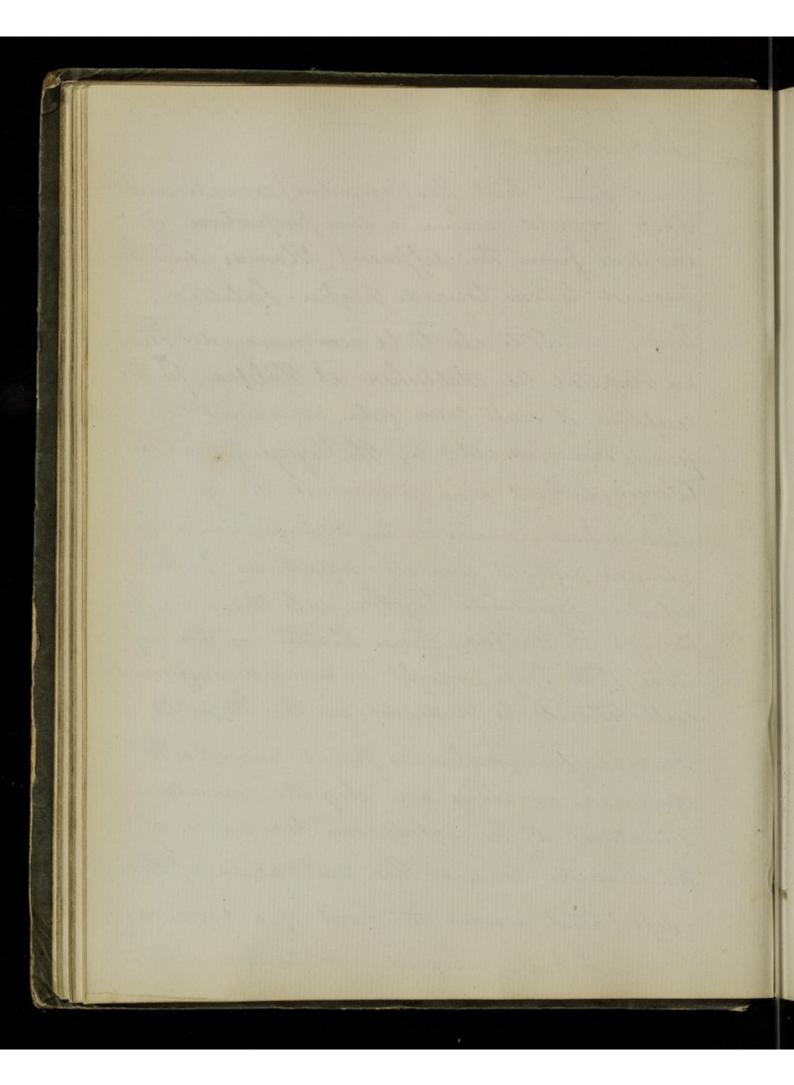
From what I have been able to advance in
The preceding Paragraphs - I am inclined
to an opinion that, much benefit would
result to His Majestry's service of the general
good of manhind: If a more regular and
frequent change of air and climate, than
has butterto been practised, were recommended
and adopted for the Recovery of those who
may suffer from the great Debility which
usually succeeds to the Biseases of this
Climate: or, indeed to a long residence in
the West Indies, under the most favored



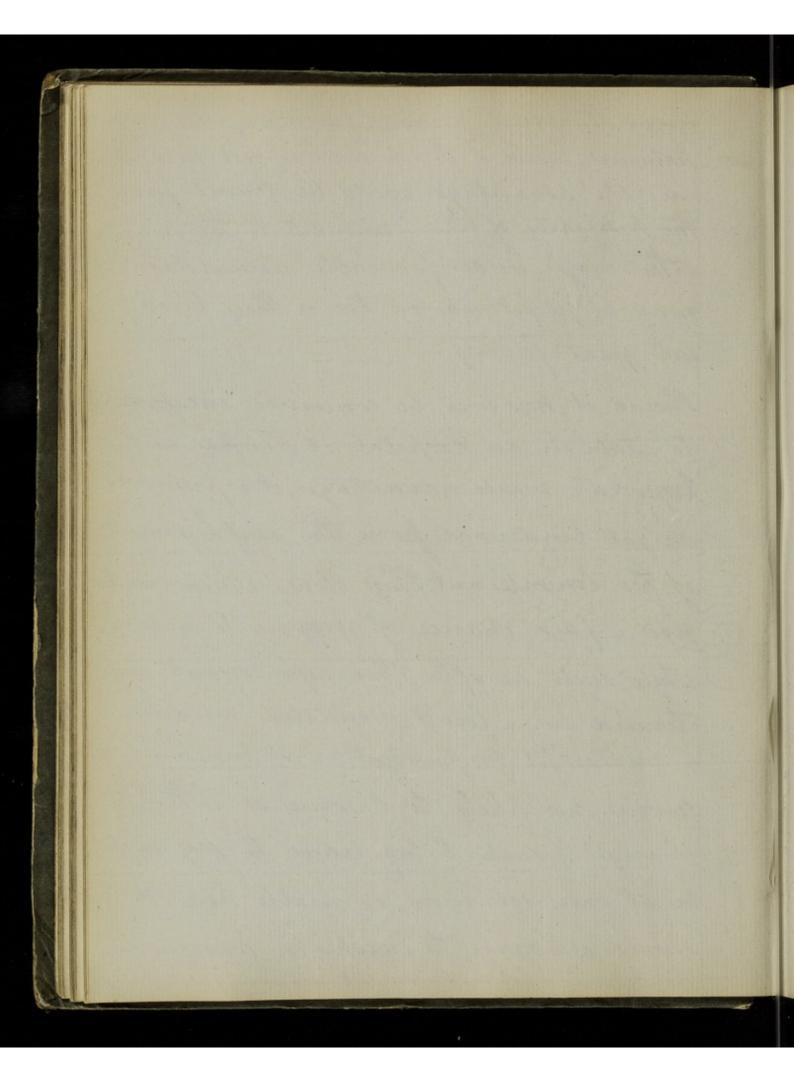
condition of Health -I must however confess myself unqualified to do more than hazard an opinion, (& that with every diffidence) on the most eligible enethed of carrying into more full effect than has yet been generally done, the regular and frequent removal of those who have been exhausted by Disease in the West Indies. as such, I beg to solicit your Excellency indulgence, hoping you will pardon me for using the freedow, before I do myself the Honor of concluding these cursory remarks: to suggest an expedient which I am inclined to think would be found to answer the intention I have in view: supposing it might be permitted, on some future occasion to be subjected to trial tirst. I should beg leave to propose that, one or more Vefsels, of approved descriptions; - commodiously fitted up for the purpose of nedical Staff attached _ be considered



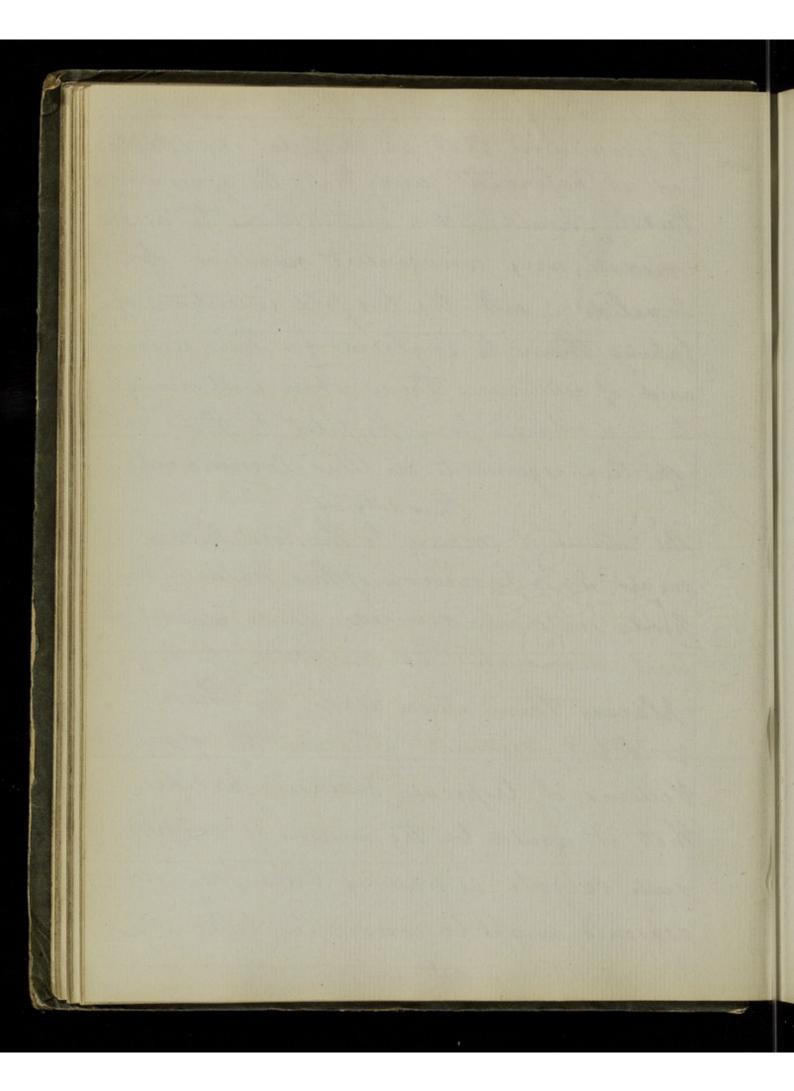
to form a part of the army hospital establishment. Lecondly _ That this (projected convalescent Ship, should receive a due proportion of invalide from the different Islands: and then proceed to lea towards higher Latitudes. Thirdly _ It is also to be recommended that, an Hospital be established at Halifax, for the reception of such Cases only , as might be found were mediable by the Voyage from the Colonies, without more permanent change. Such as had recovered on the Passage, would be returned, without ever disembarking to their respective regiments: together with those in the Hospital at Halifax, Those Health on the departure of the Phip, might be deerned sufficiently well restored, to be discharged the Hospital -Teveral circumstances point our North America as being an eligible convalescent situation. Of the salubious tendency of The climate towards the restoration of strength, - dissipated under the heat of a tropical Tun; I have already obtruded a pretty



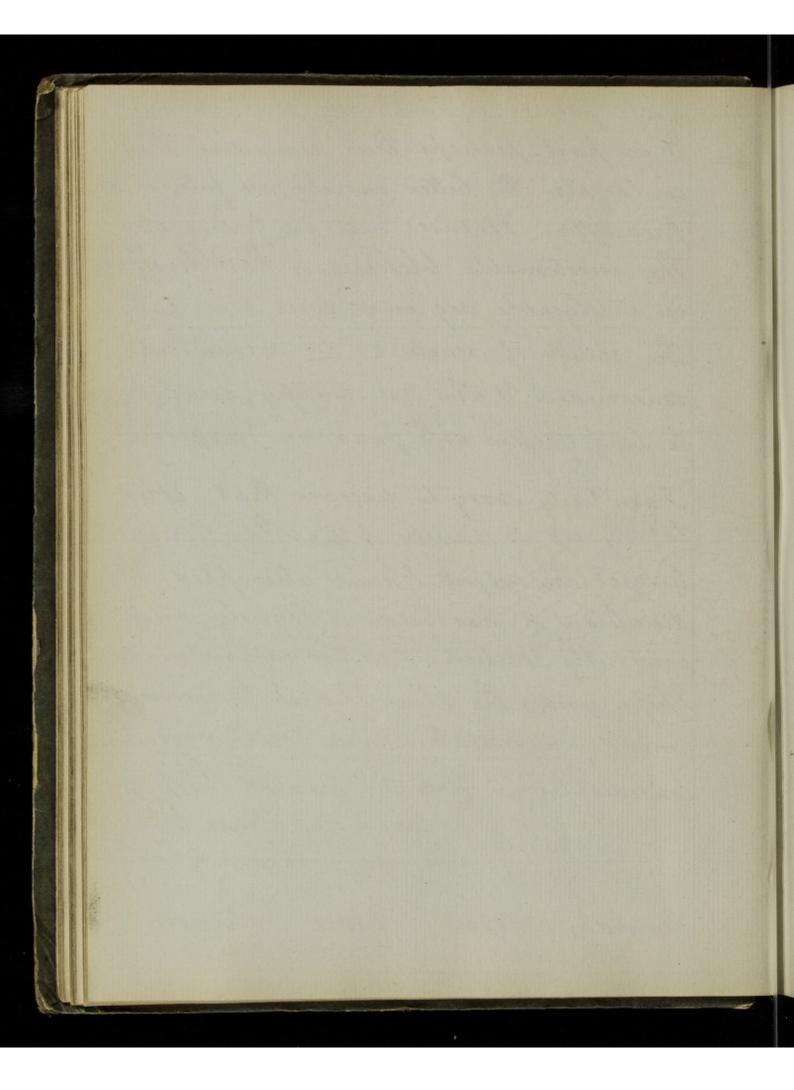
thong Testimony on your Excellency's time & patience; and I think another not mounidesable abvantage would be derived from The proximity of the Continent to the islands, as the Voyage, under favorable circumstames may be performed in two or three Week, with great facility -Thould it however be conceived inexpedient to establish an Hospital at Halifax as now proposed: much advantage, it is presumed might be derived from the employment of the convalescent Ship alone: which would give a fair chance of recovery to many. While such as after this experiment con--tenued in a low & debilitated condition - neither fit for present west India service, nor likely to become so without change; such, I beg leave to say, might be at one set down incurable here: & Should a Voyage to Europe in consequence be deemed necessary; I would, on this



this latter supposition beg further permission to recommend that, an Hospital be establish. ed at Falmouth: and that the government Packets should have instructions to accom--modate any convenient number of Invalids: with the two fold intention of taking them to England for their recovery; and of returning Them when well enough to be discharged from Mospital, to their respective regiments in this Command. Their duty in The return of many to the West Indies might, by a provision of this nature, be pretty certainly secured: Which would in hart diminish the necessity of re = - placing them when dead by those youthful recruits, who are the genuine Victims of tropical Bisease: besides that, it would be the means of supplying such subjects, as having been previously seasoned, might be considered better able to contend against an intemperate climate;



While from an arquaintame with its Evils I in part perhaps their remedies, they could also the better succeed in future in preventing Disease, and in preserving The inestimable blefsing of Realth : This in a tolerable degree is even here within The reach of such as are somewhat seasoned - I who we happy enough to be possessed with prudence Amoderation I am truly sorry to discover their, after taking up so much of your Excellencys leisure the subject I have attempted the discussion of has been so larnely and encorrectly touched. Further experience, may Thope, under the plan I wish to recom= mend, more worthy your Excellency; consideration. With the Greatest Respect I have the Honor to be Fir your bledient Tervant Grenada 20 Cepril Rodes Dichinson



Letter the second

Containing Remarks on the Means of preventing an attack of the inflam=
matory Endemie incidental to
Europeans on their arrival in
hot climates - popularly the
Yellow Fever.

MB. It is presumed to be the "Endemial Causes" of D. Moseley - the Justice bilious Fever of Hillary: The Typhus icteroide, of D. Wright & The "concentrated Endemie of D. Sachson.

2 hote to Mis Excellency Major General Maitland Horte he important subject of the preservation of Realth and prevention of Disease among the army in This Country Which occupied some part of the labors of the late Board of Kealth __ has since been ostenibly revived in the House of Commons with an assurance, on the part of Government that it is an object which shall not fail to receive attention. If your Excellency is of opinion that an Experience of nearly thirteen years may be presumed to authorize a person of the medical profession to contribute the result of his Observa: - tion: - I may aspire to hope that, as your Excellency once before permitted me tolay before you my Ideas whon another subject, equally, connected with the preservation of human life. - you will do me the Honor to accept the Manu-= script which accompanies this note: and Which I have written in the View of contributing my mite towards establishing a successful plan for preventing Disease on the Principle of an Enquiry into Pheir real origin & producing Causes nodes Duhinson Grenada 1808 -

To His Excellency Major General MaiHand Governor of Grenada Le Ve Fin

your Excellency howing condescended to uceive some cursory remarks, I had the Konor to present you with advising a means of repairing the injuries sustained by our soldiery in consequence of suffering by Disease in this climate; I trust I shall not presume, in now venturing to lay before you, such general observations as I have been induced to make in the course of nearly thirteen years Experience - on the surer ground of preventing a Disease, which cannot be deried to have occasioned a dreadful lofs of human Lite: and

I on the subject of this Letter, it has been moved in the H. of Commons 30 June 1807 - "That there be laid before the house a statement of the humber of Troops sent to the West Indies - from the 1. January 1797 to the 1. Vany 1807 _ distinguishing the Officers under Thom year " Though an accurate retrospect of the quantum of Evil incurred by sending Trook, to the West Indies might be supposed to operate as a powerful stemulus to future preventive exertions: - could it be imagined any such Spur were required. yet. this painful investigation into the sufferings of Humanity. even though instituted on fair candid, I most certain ground; demands a delicate & judicious management: being otherwise cal-- culated to do irreparable mischief, by raising emotions & sometimes false apprehensions in The Minds of those The from partial not to say unfounded Histories of Disease & mortality, without being able to form an adequate judgment of the lause; - hold a West India (perhaps unavoidable) Tour of

and which continues to be most sensibly experienced on the first arrival of every Regiment from the Parent Country - * In the Remarks I had the Honor to submit to your Excellencys consideration in my last Letter: - I expressed myself of opinion that Thatever Cause produced any severe tropical Disease __ or, Whatever Character it might assume in its commencement or progress: a common Effect would ensue; - remediable by a general means, namely. Change of Climate . -It seems to be otherwise in an Endeavour to establish a successful Kule of Prevention. One Effect; - a general depression of the powers of Life, with its peculiar concomitants is the most usual result of every tropical Disease afflicting the European; but, in their first production very different Towers operate: & it is only by any acquaintance with

Tour of duty in such dread - as of itself proves, not unfrequently more baneful to their Health and happiness than the real morbid influence of the climate they fear-

The wil is only to be overcome by pointing to the proper remedy: not by reprining at its occurrence. The View endeavoured to be held forth in this Letter is solely directed to advise a plan for preventing future calarnity. It looks to a chearful Verspective of that which may be attempted to ameliorate the condition of our Countrymen destined for West India Service: __ without easting a glance at the hitherto fatal consequences of troor or heglest; or, of such consequences as must ever partially atleast) result from the necessity of sending Troops at all to this Climate _ even under an adoption of the best schemes for preventing Mortality

with the producing lauses of Disease, that we can hope to establish any maxim for their prevention.

The preservation of health depends upon our avoiding the Causes which excite Disease: or by obvioting their effects if unavoidable. and by so regulating the condition of the (yet) healthy system as to correct Predisposition-

Many distempers - even of very similar external Character arise from different Causes. Its generat rule therefore can be laid down for their Inevention: and experience has abundantly testified that a prophylactic in one instance of complaint, may be an exciting morbid Cause in another: While the particular Habit of body to be corrected & that to be established anow, under certain circumstances, may in others lay the ground for an attach of Disease— Therefore, a general Rule of Prevention will not here apply—

+ In such cases, reducing the strength of the body by Bleeding and other Evacuations has done infinite mischief. I sheak from actual experience of the fait -

This receives elucidation by considering (for example) The preservative Means against the morbid action of marsh and confined human Effluview occurring as a Cause of Fever amongst those broken down in this Country — when contrasted with the plan which should be pursued towards quarding the european constitution on first coming to this climate - against the ravages of the inflammatory endernic or yellow. Fever-

Sconsider the inflammatory endemic or that Disease, in more express terms which is almost exclusively incidental in the west Indies to hersons arriving from higher Latitudes, - a Disease of climate strictly: to an attack of which the northern stranger is peculiarly liable in all situations — even under every possible circumstance of common housence and precaution —

But the remittent & intermitting Fevers of

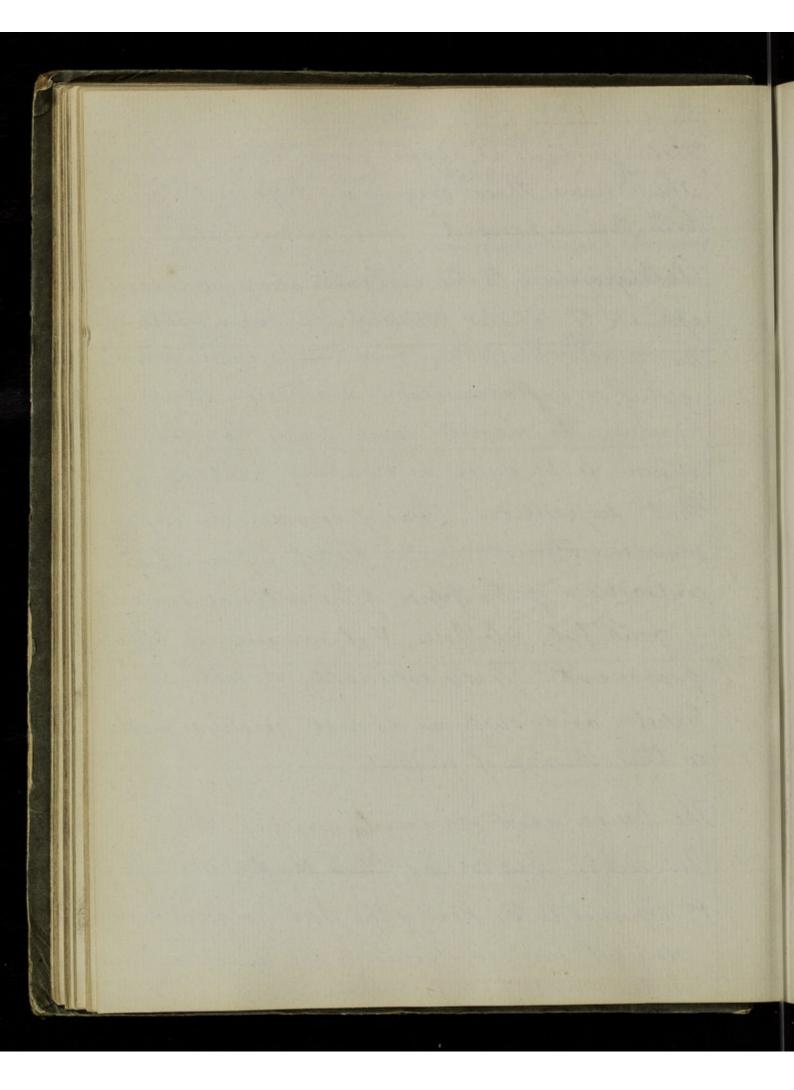
+ When the constitution has become they afremelated, There is titlle comparative rish of an attach of the in: flammatory endernie: _ certainly not much, unless from an extraordinary exposure to the exciting lauses, Temperament. Persons so inured by residence as to be thus no longer liable to the ardent or fever of Climate incidental (exclusively) to new corners, enjoy very good health in the West Indies: - at least - a complete free down from the "yellow Fever"and indeed from all fever, unless they become or, are placed in situations open to the influence of marsh mismata or infection; which under any dimate operate by inducing remittent & intermitting fevers, as also bowel Complaints -The continued operation of climate however, very certainly exhausts the european constitution, as I have elsewhere noticed. But in so far as Health may be considered to depend on freedom from Frever the Disease, in one or other shape - of all others productive of the most extensive ravages: whether as arising from the operation of tropical dimate on hew comen: or, as being derived from marsh Effluria to f- in so far, I beg leave to say the

of marshy situations; as well as the Epidemic, of particular seasons - together with The more rare occurrence of Fever of typhoul Character, are local and in great measure confined to such places and periods of season be as favor the generation of their Cause. They appear to me essentially different from the inflammatory endemin (yellow Fever) of Strangers: & in decided preference attach those who may have become inuced to the demate - who are weakly and worn out: & who have, from length of residence found in great measure a happy exemption (by gradual assimilation) from the ardent fever which so dreadfully preys on the unseasoned constitution -

Under a View of these different circumstances we must advert to different Rules of preserv = ing Health. In these Pages, I dare purpose no more than to consider the

the following military positions may be considered highly salubious. namely, Brimstone Kill- I. Kitts, Richmond Hill-Grenada - montis Hill antique, & Fort Charlotte It Vincent. I speak here also pom my own Experience: having been stationed in them all: and I consider them situations in which seasoned Troops may live long in the enjoyment of good Health

The prevention of the inflammatory Endemie distinguished as above from those Diseuses Which have their origin in different Causes, both predisponent and occasional. Oredisposition to the inflammatory enderned appears to consist principally, in a state of The System which has been named a phlo-- gistie or inflammatory Siatheris: hence we perceive The subjects most liable to its attach, to be such as usually partake of that disposition - Those of considerable, apparen muscular strength - Who propels a prowerful contraction of the fibres of the arterial system. - youthful, plethow & of sanguine tem = - perament. Those especially of costwe habit - and such as do not perspire freely on this change of climate The Causes, most obviously exciting the Disease in new Comers thus pre disposed are; 1st Exposure to the Heat of the Sun in great degree, of so powerful a stimulus ____ 2 dy



2 nog Violent muscular & perhaps mental 3 dy Intemperance in eating and drinking Indolence and inactivity increase predisposition and should there be also auxiliary causes not taken into this account - or others unknown to us in the production of the Disease: we can only consider them alike calculated to operate the same effect: we may, at least hope that the means of preeventing the morbid action of such as are manifest & sufficiently obvious, will be adapted to oppose the operation of any other concurrent noxious power not taken ento particular consideration or not at all times clearly distinguishable _ It may be proper also to observe here -That on the general scheme of preventing Bisease. There are many salutary means alike applicable to each particular & even opposite dals- I have known men take The inflammatory endernie under intoxica =

tion from the operation of a powerful

* With respect to drep; the lightest and coolest should be preferred — unter we are obliged, at once to expose ourselves to the inclemency of season. The night air or violent Exercises — in which case flanned should be recommended: and equally avoided, if the New comes can command his vituation, I degree of Exertion. For it is calculated to induce irritability and subsequent Languor and debility — perhaps a susceptibility to the operation of morbid powers—

stimulus during the period of its action as such; another Man takes low marsh Fever the day after a similar debauch - from the debility Which always succeeds so dreadful an exceps of stimulation. In each case mo = - deration would have been the Golden Rule of preserving Health - and so of many other Examples -Having premised some of the chief circumstance, which appear to regulate the Causes, both hre-disponent and occasional of the Disease we are wont to prevent; ___ I shall, in the next place beg leave to suggest the means best calculated in my opinion to so salutary a purpose: The principal of Thick are bloodletting, purging, spare diet, abstineme from wine & spirituous Liquors: with some others of less moment. On approaching tropical Latitudes, we should seldom delay taking a certain quantity of Blood - The measure of which,

+ This, and some other notes which follow, are introduced as they afford a strong collateral evidence of the propriety of the preventive means recommended in the Letter - . hote. "The officers of the army and havy who have lessure and can be prevailed whow on their arrival in the West Indies to undergo one or two courses of Mercury. take a few Essative medicines, after confining Them selves to a moderate use of Wine, I living chiefly on Vegetables for the first two months after their arrival may rely, almost to a certainty, on escaping the Fever " Clarke Sominique -" A Detachment of Dutch arrived at Port an Prince - all subjects of West India Fevers. The entire were blooded freely: and on the subsequent morning took , each a dose of Thysic - only two died in four months

together with the propriety of repeating the operation must be determined by the several circumstances of Ago; sea, Tem = perament & of individual, as also by the general condition of Health. These it is presumed will be taken into care ful amount by the attending medical officer.

When venesation has been employed, a purgative should be exhibited: and a preference is here given to the neutral purging Palts. The several circumstames alluded to above as necessary to ascertain the quantity of Bloods which may be fruidently and efficaciously withdrawn from the system: will equally determine the more or less frequent repetition of the purgative.— Should it be deemed ad=viseable not to repeat the dose of pury:

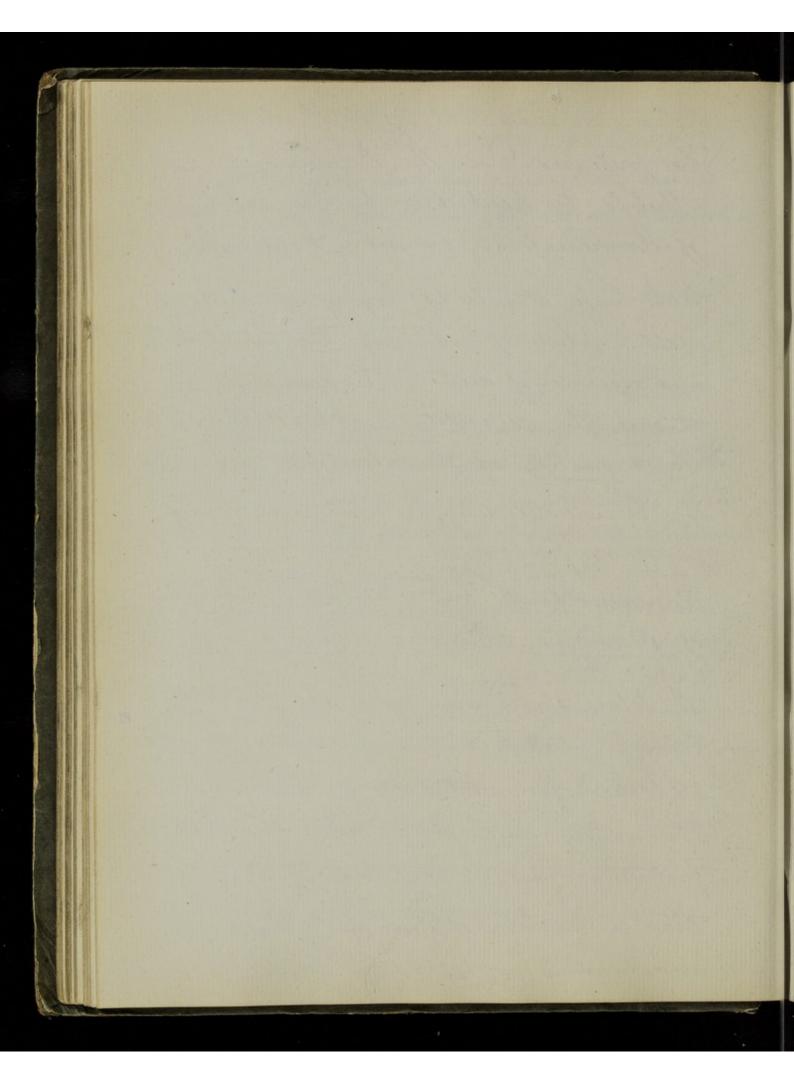
- ing salts, or of Calomel combined with

+ The Imperial Imean is a purgative Lemonade made by pouring in the proportion of a pint that, of boiling water wpow half an owner of the cream of Tartar. Let it be sweetened with Sugar V drawb When cool —

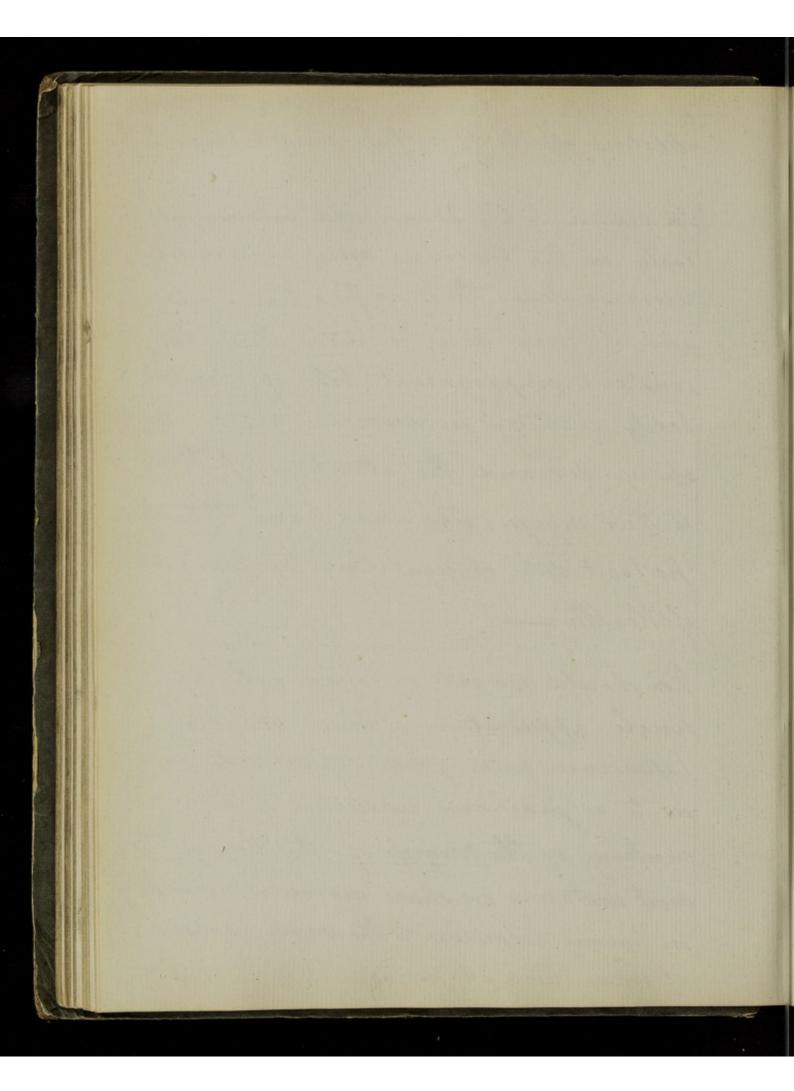
* The mention of Condement leads me to suggest the advantage that will, most probably account to the youthful subject of yellow Frever - by abstaining from its use while a tolerable share of appetite continues. It is early enough, in my opinion; when the enervating effects of climate have undermined the Constitution I disturbed the digestive faculties to have recourse to their aid. It is doubtless, an effect of the climate to impair the office of the digestive organs: - and, in such case the benevolent author of the world has bestowed a means of reparation. But then more frequently seek the opportunity of using Peppers, Thices, Sauces & Drams, because they like them, - Than as they judge themselves to require such apristance -

Talap in case that form of hurgative be preferred: - The Bowels should, never -- theless be nept free by the exhibition of Imperial as common Beverage. With these, it will be highly expedient to adopt a plan of reducing the usual scheme and regimen of diet. To diminish, if not at once the quantity - at least the stimu = clarat quality of the aliment made we of : by substituting in a certain degree, vegetable for animal Food: using at The same time but a small proportion of Condinent. A total abotinence from all fermented Liquors - unles contra indicated by some unlooked for contingency should be strenuously enjoined: - permitting at the furthest no greater Latitude of Indulgence

Than a mixture of Wine with Water. This moved may generally be adviseable on our

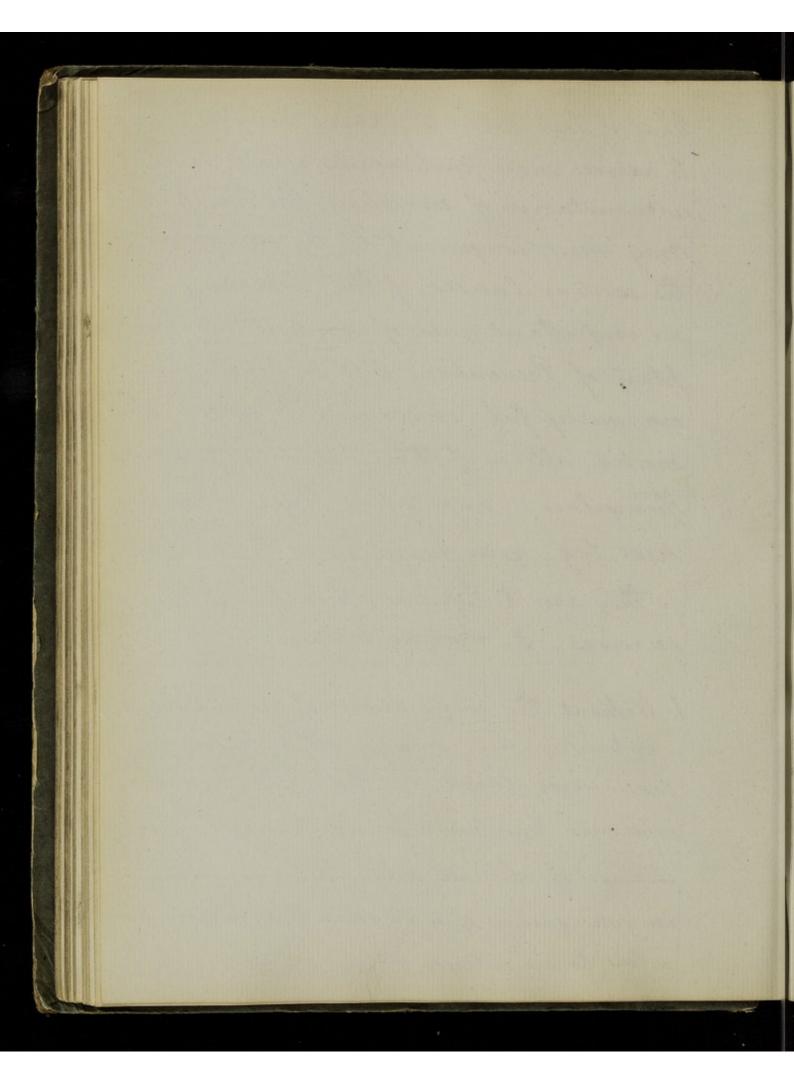


arrival in the Country - to lessen the debi-- litating effect of profuse perspiration -In addition to the above : cold bathing used early in the morning may be commonly ucommended - three or four times a week: and I may here remark, that the constant employment both of mental & bodily exertion in moderate degree: will always demand the attention of those to their charge; who may have the im= portant duty of regulating the preservation of Health hor should we rest satisfied with any single application of these means .-Experience and good sense will direct us to a judicious repetition of them Then necessary on the progress of the Voyage: Vin most instances we shall discover our safety in having recourse to the same measures of prevention at our arrival in the Country.



What I have hitherto taken the freedown to advise more particularly relates to the circumstance of correcting the Habit of Body most congenial to the operation of the eaciting Causes of the Disease. But an important rule of conduct in the plan of Prevention will be found in our successful endeavour to avoid the morbid action of those exciting powers Themselves and upon these I must next beg your permission to expatiate. They are 1. Exposure to heat _ 2. Violent exercises. 3. Interreperance.

1. Without the co-operation of violent exercise, - intemperance, or any other known concurring Cause, - the inflammatory endemic has been found to arise from change of climate only - that is to say - in consequence of a sudden transition from a low to an interese thermanent degree



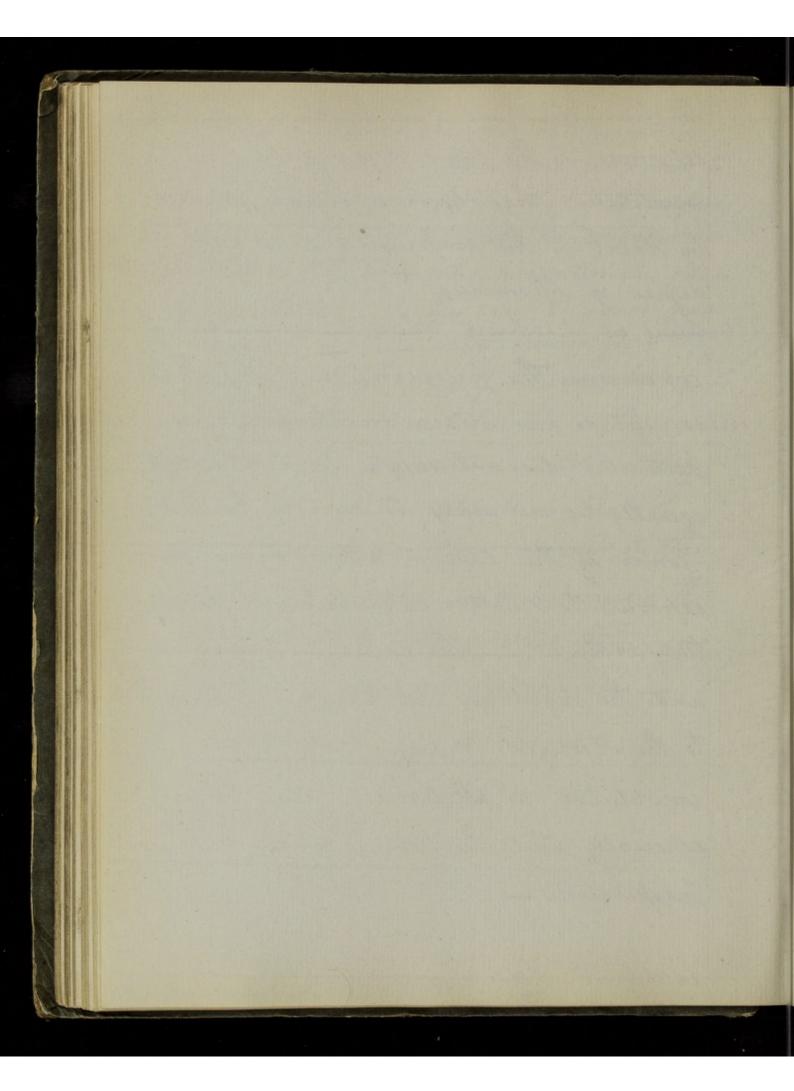
of external temperature. This being the case, - a most important rule of prevention should seem, to avoid exposure to the sun's direct rays - and such in truth it is - But when we consider the Buties of a military life. I likewise attend to the many circumstances which lead the unwary stranger to seek his (almost) sure destruction under the burning Rays of a tropical sun to whose powerful influence he is as yet un-accustomed: we shall feel dis-inclined to dwell much on the subject of avoiding heat as a necessary precaution: too well convinced of the futility of advice on this Head : even when The admonition might be welcomed & practised: While at the same time we are aware of its impractibility in many instance, on public Service.

It is nevertheless our duty to recommend

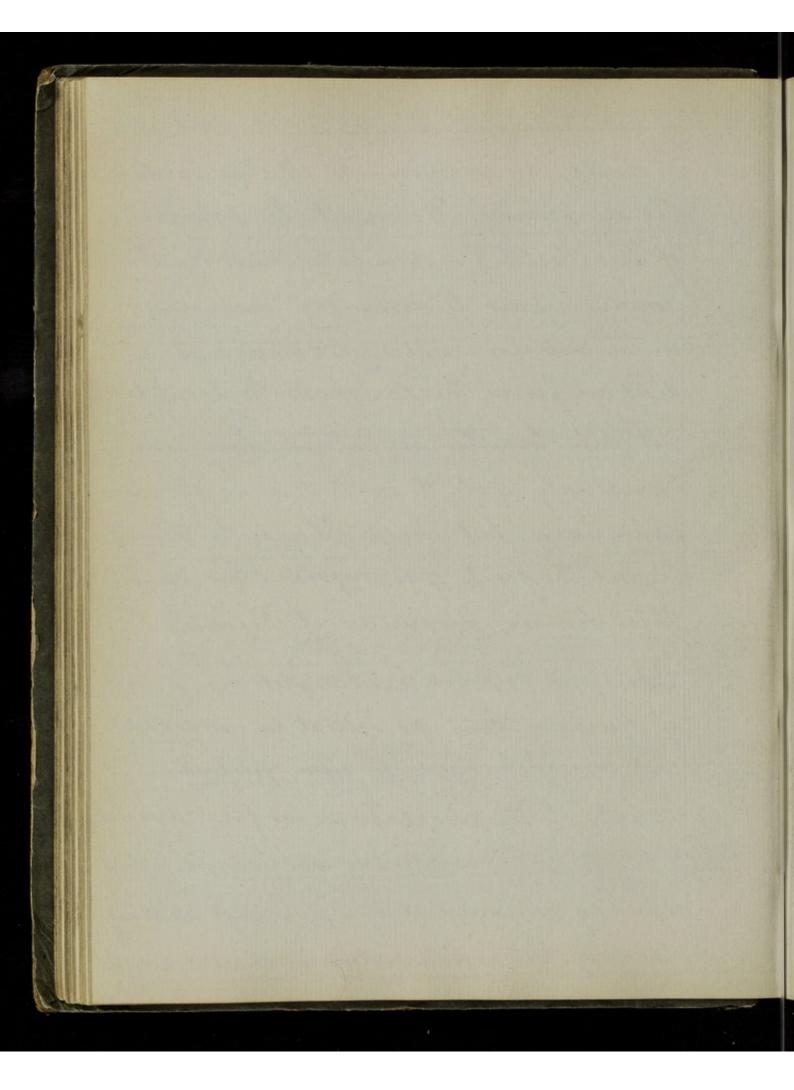
+ The stimulus of exceptive external Temperature When constantly applied to those unaccustomed to it. induces a contraction (apparently) of the orifices of the extreme Vefsels of the Thin, in consequence of which they do not pour out a proportionate quan: tity of perspiration - In this case, D. Curie has justly observed " disease must ensue from the direct stimulus of heat" and if, the necessary quantity of perspiration takes place the system is enfeebled by the Evacuation". Whom this Observation principally rests all our plan of preventing the inflammatory Endemie on the one hand: _ & of repairing & sustaining the tiving Energies on the other - when there are exhausted by the impression of climate -

the stranger to avoid as much as possible exposure to the suris rays: until his constitution has become inured gradually by Habit to the impression of so great a degree of Stimulus. Were we speaking more universally concerning the preservation of Health than as regards our endeavour to avoid a particular disease only; - it would equally be our duty to caution the new-- comer of the danger attendant upon exposure to sudden alternations of external temperature __ the inclemency of season, and the night air and damp. To hurtful to the strongest, I even to the best reasoned constitution at all times - still more especially while the body is under profuse perspiration -

Could the Toldier command his choice



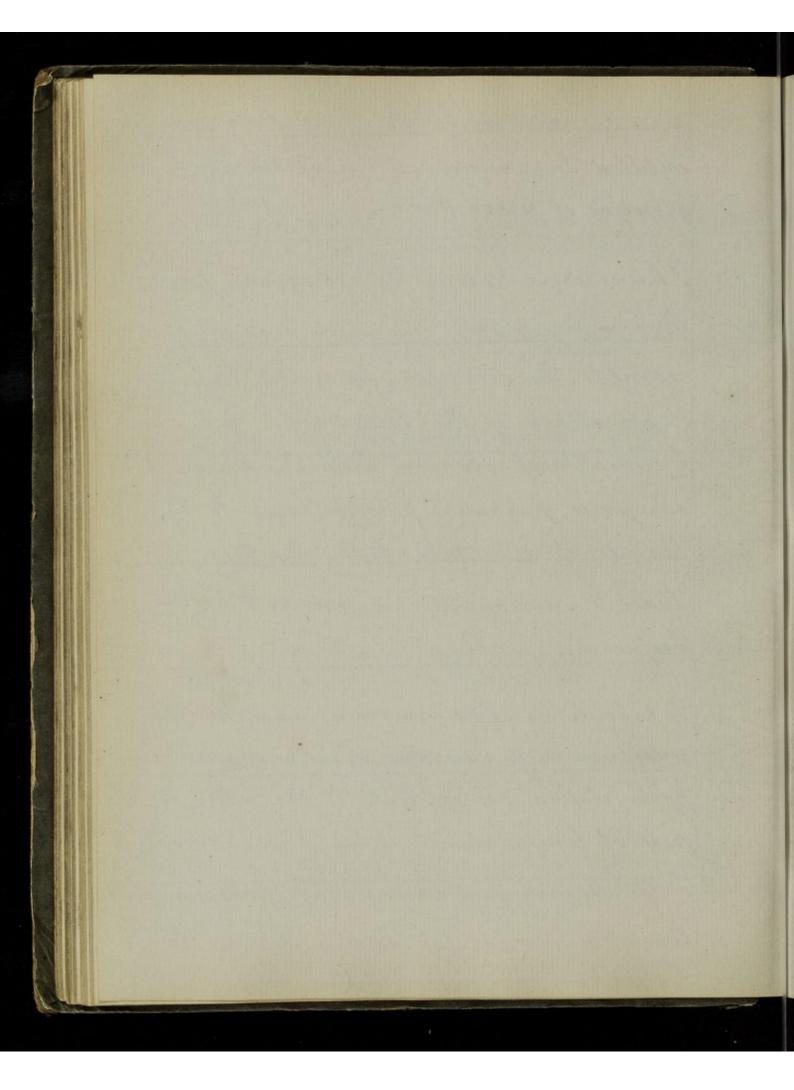
of situation on his arrival in the west Indies, he should, (in common with all other Europeans The are desirous to consult the preservation of their Health) so soon as he lands in the Country repair to some dry eminerne in the interior: There elevated & at a distance from the sea shore he would not only breathe are atmosphere com = paratively cool, & on that account alone salubrious; but would likewise be placed beyond the reach of manifold other causes Than climate, productive of Disease. Experience however has taught me to be of opinion that no situation or reason can be rafely said to offer perfect security to the european on his first arrival I pre-disposed as already mentioned. _ but regarding excessive heat as a principal exciting Cause of the inflammatory endernie; every



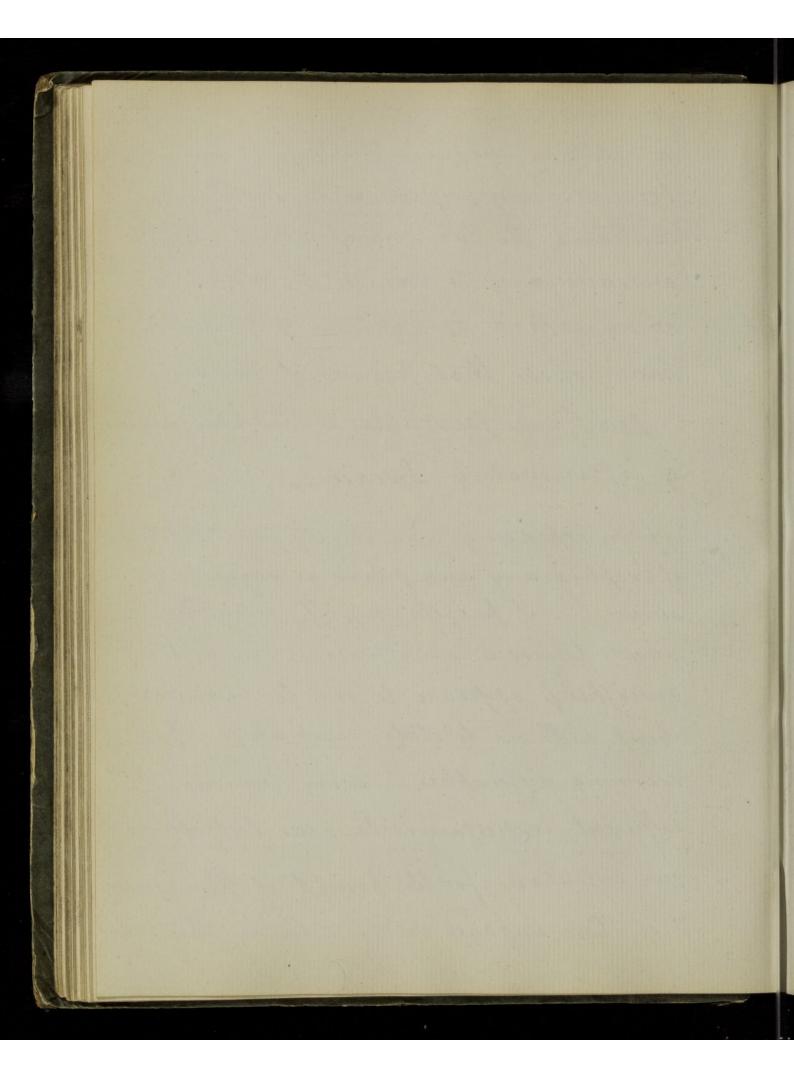
material rise above the level of the seer is entitled to much consideration as a good ground of prevention.

That no situation or season entirely exempts the stranger from the possibility of an attack of the Endemic - Get must I nevertheless observe that the degree of danger is, probably proportioned to the periods of departure from horthern Lati-tudes & subsequent arrival within the Tropics -

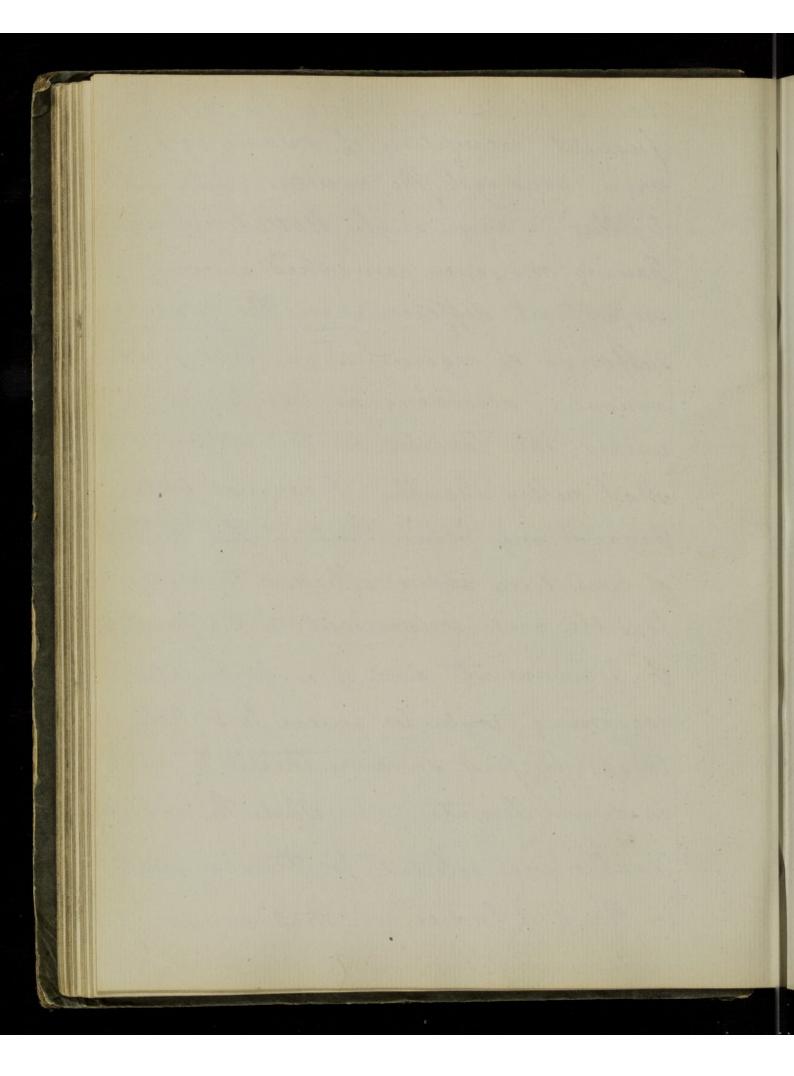
To provide in some measure against the consequences of a sudden change of climate, from almost one extreme to the other in the scale of temperature, it has been advised (& I think very judiciously) to season english troops by previously sending them to Gibraltar, or some other situation



Situation, which might equally present a salutary medium: While it has likewise been recommended still further to diminish the Evil we speak of, by endeavouring to recruit the West India army with a description of hen who have passed that period of their life, so peculiarly favorable to the invasion of inflammatory Disease_ Of the expediency and indeed pradibility of adopting any such plan as suggested above I profess myself altogether unable to resque an opinion: - 1 nevertheles appears to me to be incum: bent with us to state, regardless of seeming difficulties - every means of sufficient importance towards fulfilling our intentions for the benefit of the Tervie I of those engaged in it: and in this view I beg leave to remark that from having



having attentively noticed the more frequent exemption of middle aged men amongst the varieties which meet together in any single Battalion: and having moreover remarked a very important difference in the general suffering of regiments on their first arrival; according as they had reached this Country in the coolest or most sultry Mouths: I cannot but hazard my belief, that if the method of recruiting above alluded to were feasible and convenient to the purpose, of hovornment: and if a preparative seasoning could be given to british troops by first sending them to a medium climate ... While the cooler months were selected for their arrival in the West Indies . - That under such regulations much mortality

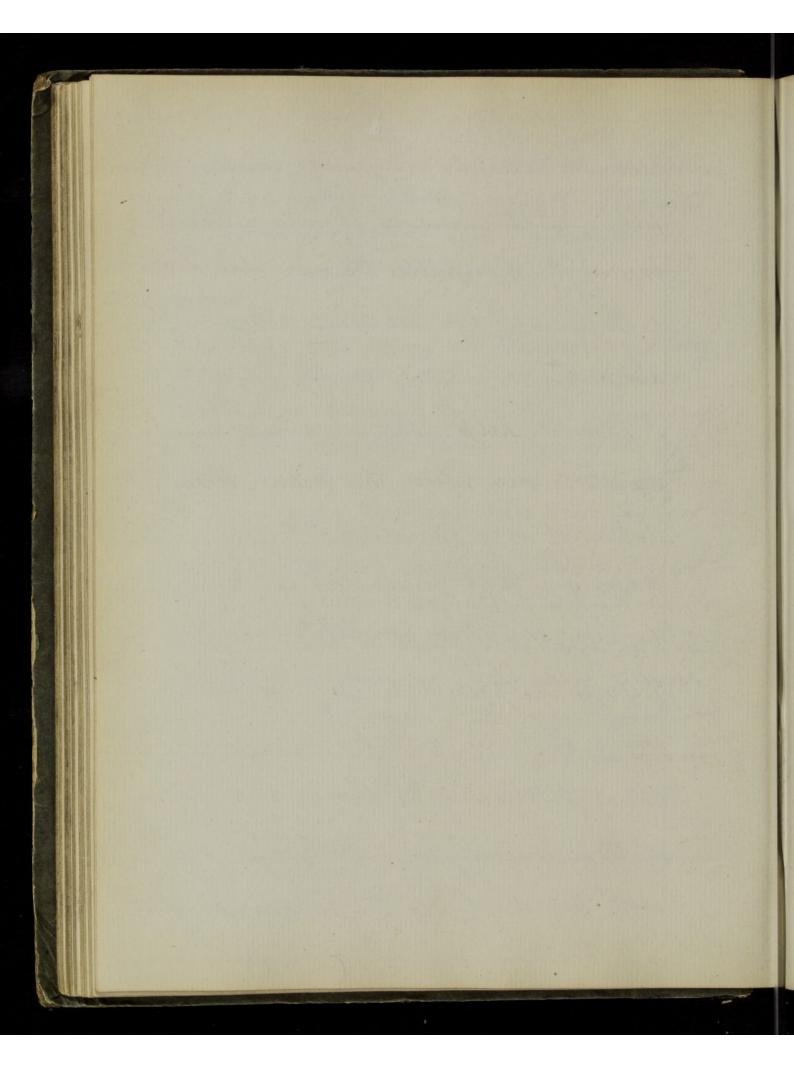


would be thereby prevented;—in so far at least as might be occasioned by the in-flammatory endernie incidental to northern strangers_

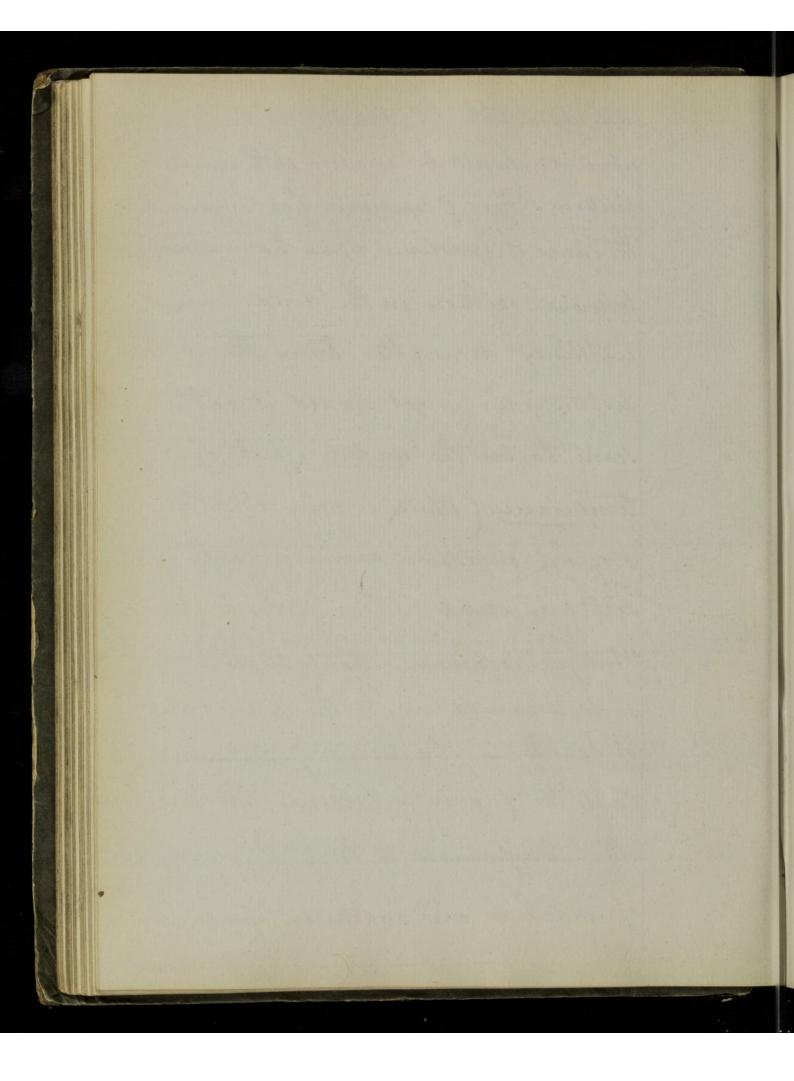
2. As severe exercise in torrid Climater can never be performed to any great extent without co-operating with excessive heat; so undue muscular exertion - it is pretty obvious, in my opinion, must prove inva-- really hurtful to the unseasoned quohear Constitution - by encreasing the heat and action of the whole circulatory system. What has been advised therefore on the subject of avoiding heat - applies in This place with equal propriety -But as it would be truly absurd to enjoin the soldier to remain at rest whose duties may

+ about the year 1780, at the time military operations were carrying on in India, the 72 Regt soon after their arrival: in one march left behind them 200 her-Many of these expired almost instantly Through mere oppression from Heat and Fatigue. The greatest humber of the rest died of Fevers in Consequence" " In June 1794; The army in Flanders had long and fatiguing marches between ortend I Ghent. The weather was unusually sultry. Leveral of The Toldiers then dropped down in a state of insensibility or Coma. Others were seized with apopletic symptoms of all were bled trelieved by it'-"In Indie in 1797 - An European Regiment just arrived, but very much addited to drunkenness: - after a nights debauch were taken out in the morning to be marched a few miles, to sober Their Penses. The fun rose - the men lagged many dropped. Tie were brought in dead. 100 were taken to the Hospital I several died with Frevers." Christie's remarks on the Effects of heat & Fatigue Ve

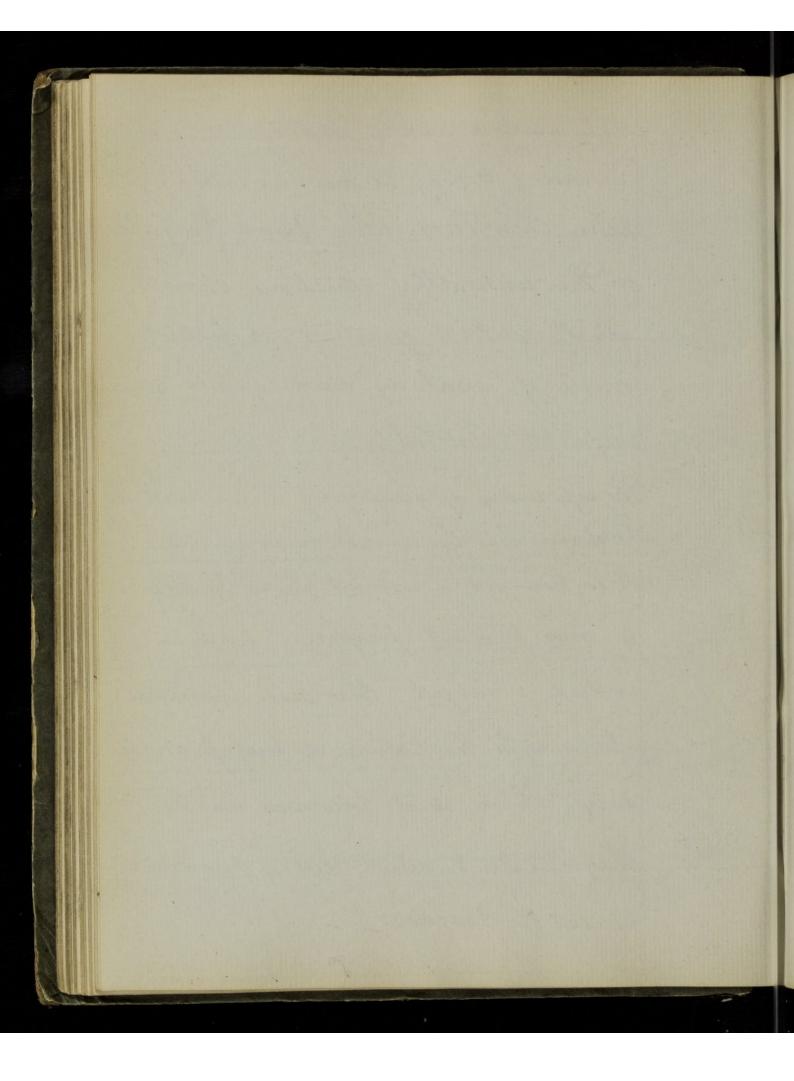
may be inseperable at times from laborious exercises: __ we may only caution thus far: - that whenever it can without injury to the public Service be dispensed with _ excessive exercises should be avoided + I cannot help observing here, what seems to me, whom this head, a mistaken notion of very premicious tendency. hamely - that muscular excition should be considered so absolutely necessary towards the preservation of Health in torvid Climates as to have induced the condemnation of the benevolent practice of Government in supplying Regiments with negroes to do the Paborious duty of Tioneers -



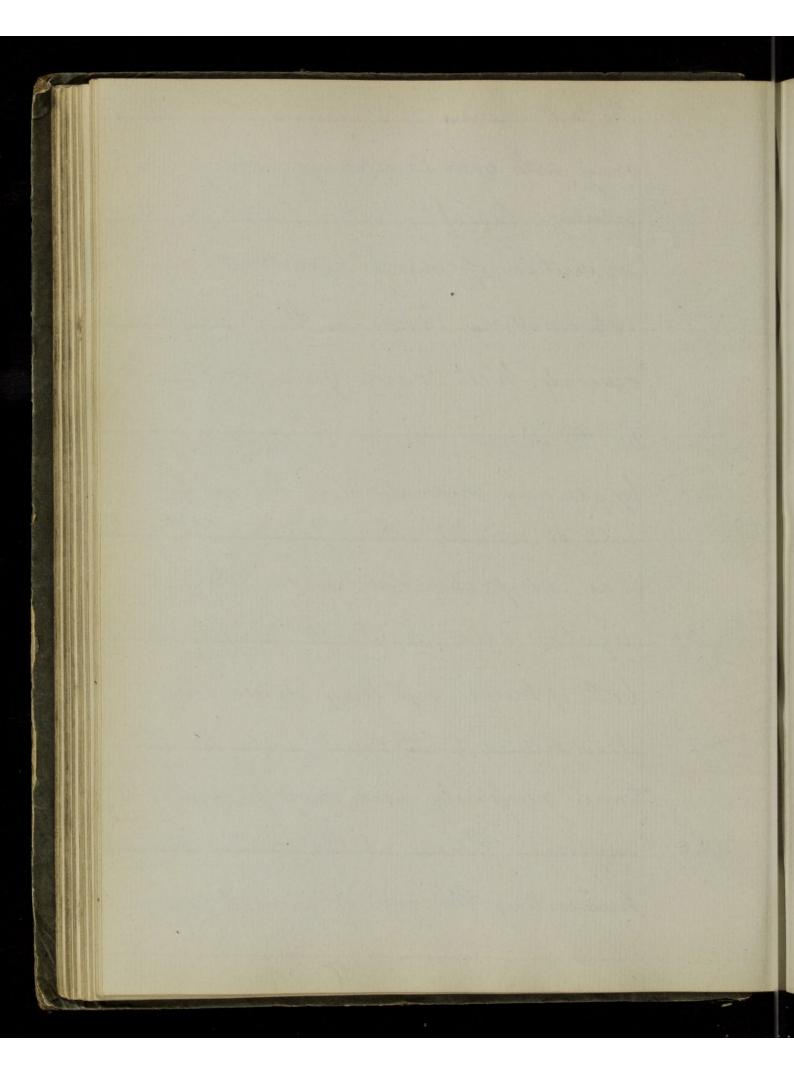
Opinion, with the recommendation grounded upon it, should be received with much caution. For, if experience has evinced that The Hours of indolence which have sometimes followed exertion in the Field, more certainly draw after them the Poldiers destruction: - get should it nather seem to be the united effect of temperance (which is more strutty observed on actual service) both in diet and exercise. Than excepive labor Hatique exclusively which tends, unour such circumstances to the preservation of health - The leisure of debauchery Which too frequently becomes the insepera - ble Companion of those ill fated hours of indolence and inactivity should be likewise - equally avoided with inordi -



= nate exercise; while another cause of Disease (it may be here remarked) often arises when Troops retire from the field. in the unhealthy situations where they are of necessity quartered - a fertile source of malady and much cow-- sequent mortality -The expediency of occupying these unhealty Ositions has been called in question. It is however a consideration foreign to my present purpose and is indeed a subject otherwise incompa-- tible with the nature of professional duty- Than as it becomes us to investigate & detect every producing Cause of Sisease.

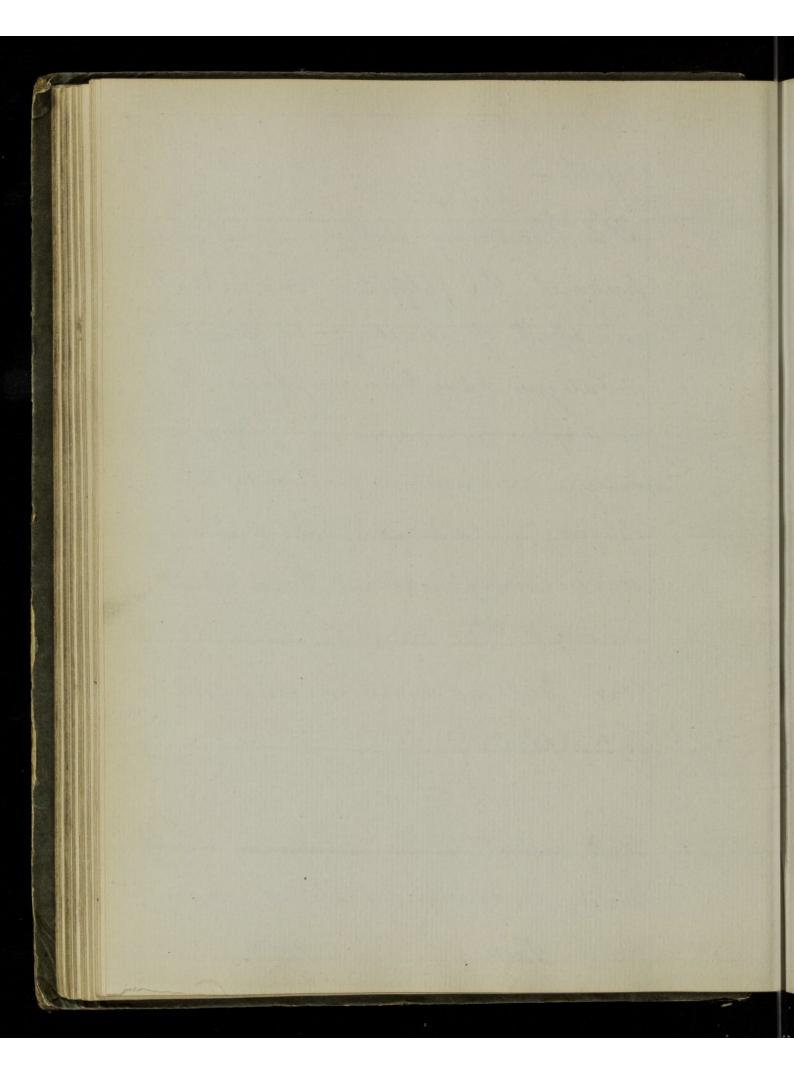


The best means of obviating their Effects may with your Eacellency's permission, occupy hereafter some pages on the prevention of march remittent and intermitting Fevers, as these occur in several West Indien Garrisons On the Subject of Exercise I shall conclude by advising moderation, as the golden rule of conduct when practicable -- as comprehended under The regular and constant employment both of mind and Body which duty Then directed to its object will at all times necessarily and most providentially impose - thereby, at the same time preventing the evil of greatest magni-- tude __ the worst fruit of Indolerce

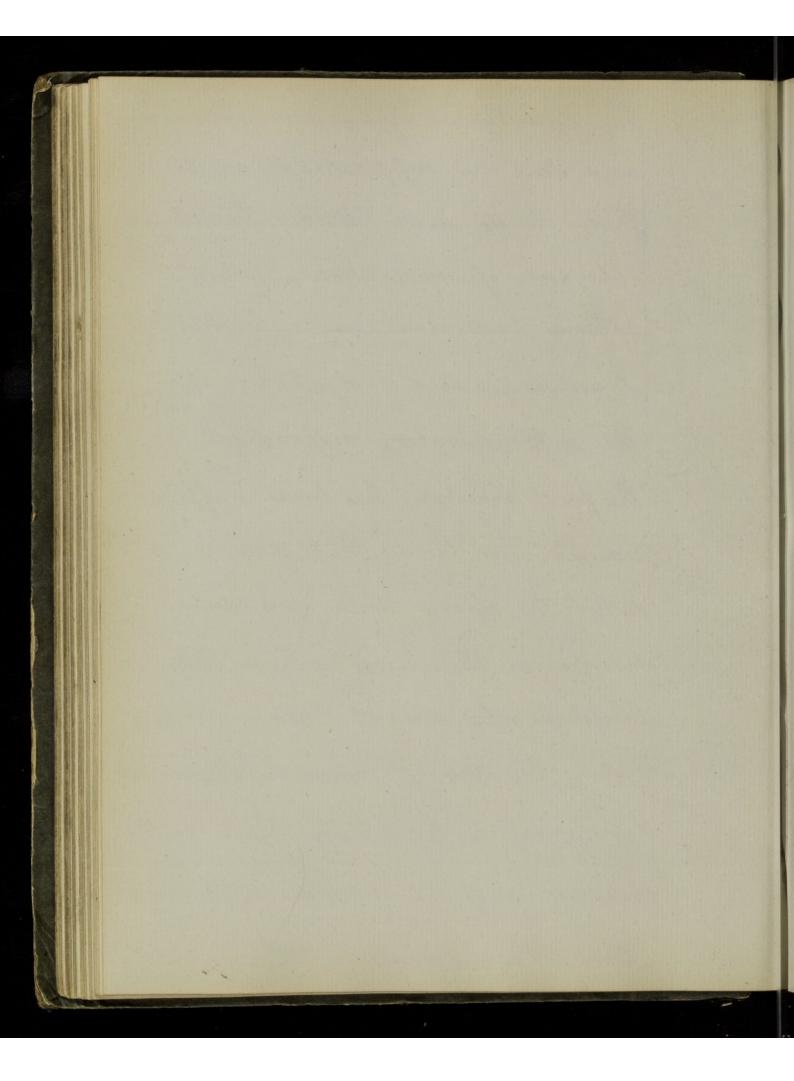


Intoxication with its concountant 3 the many obstacles which might prevent the fulfilling our intentions in respect of avoiding exceptive heat or Fatigue have here no place. Heat must often be indured - Labor and Fratique we must, as frequently be obliged to unaergo. The public service may require these which are amongst the common accidents of War, but no man is obliged to be intemperate

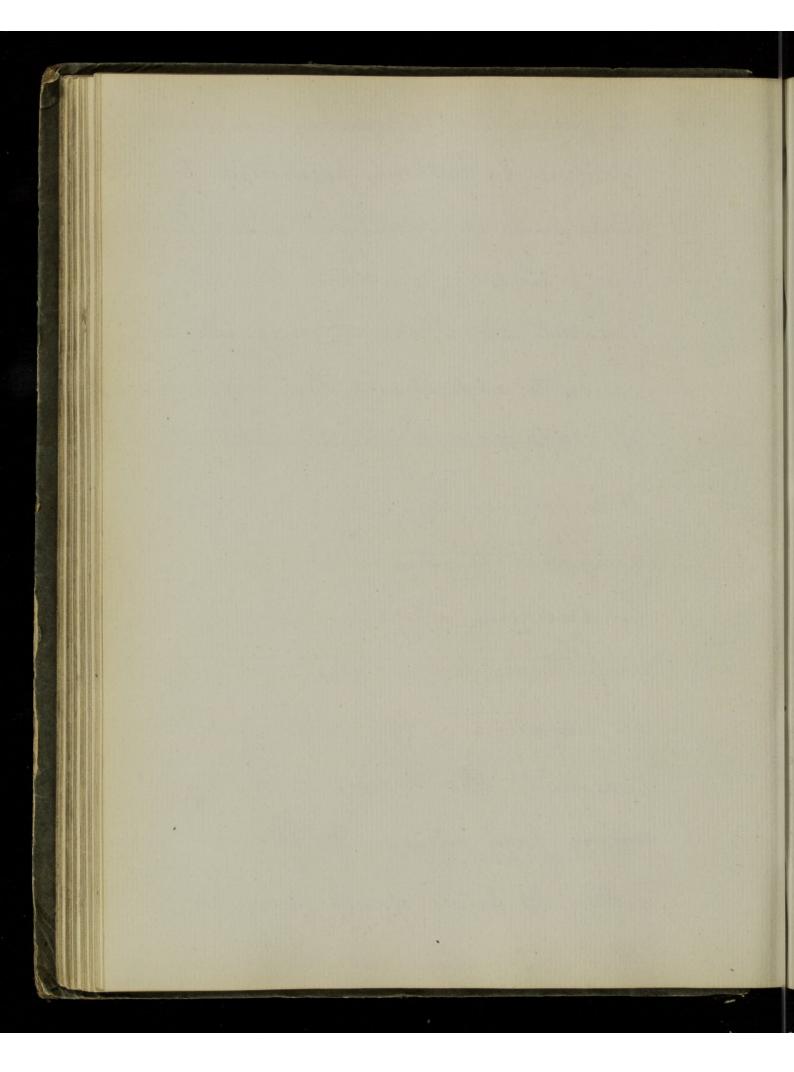
With respect to the common use of Wine, as drawn by almost every herson Whose finances will permit



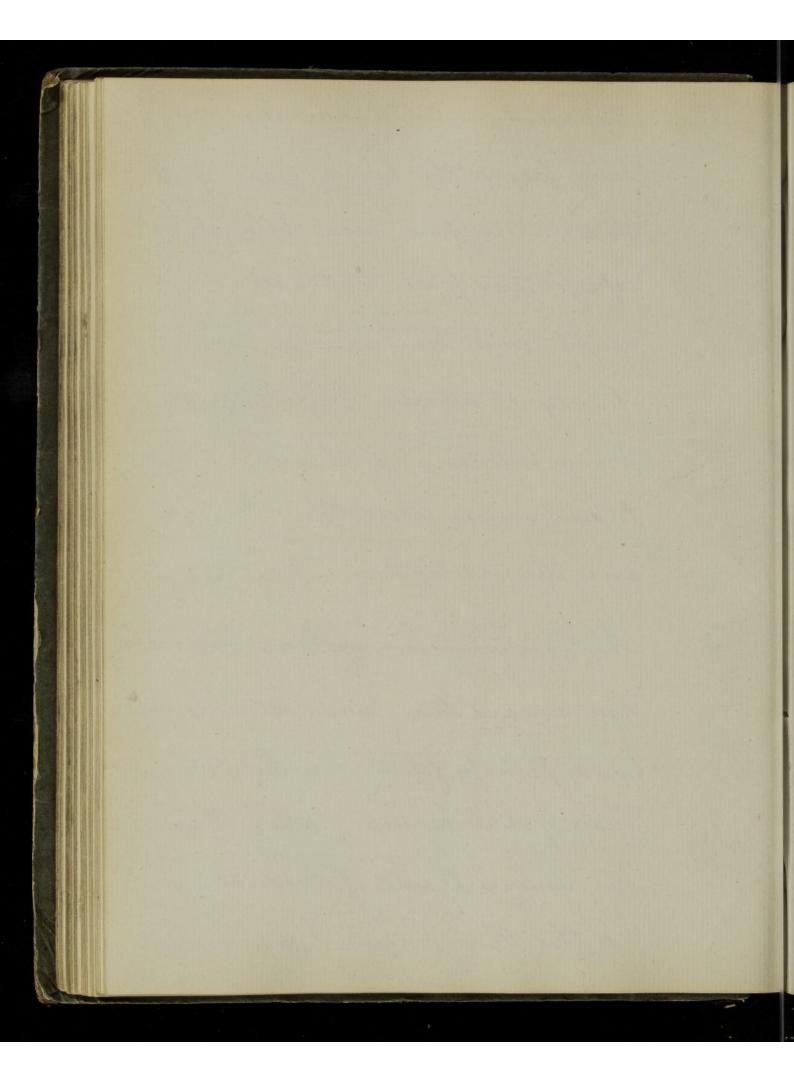
the indulgence and whose age and sex are supposed to entitle There to its use. Under the invaria : ble rule of moderation _ should nothing particular arise against it) I see no ground of objection after The inflammatory disposition on The first arrival has been sufficiently reduced. For besides that it conduces to dispel the gloom Shit sometimes overspreads the Minds of those who languish after distant Friend, & native Country: it counteraits also, in some measure the debility which is the consequence of an immoderate perspira-= tion. Nay I shall go the lengths



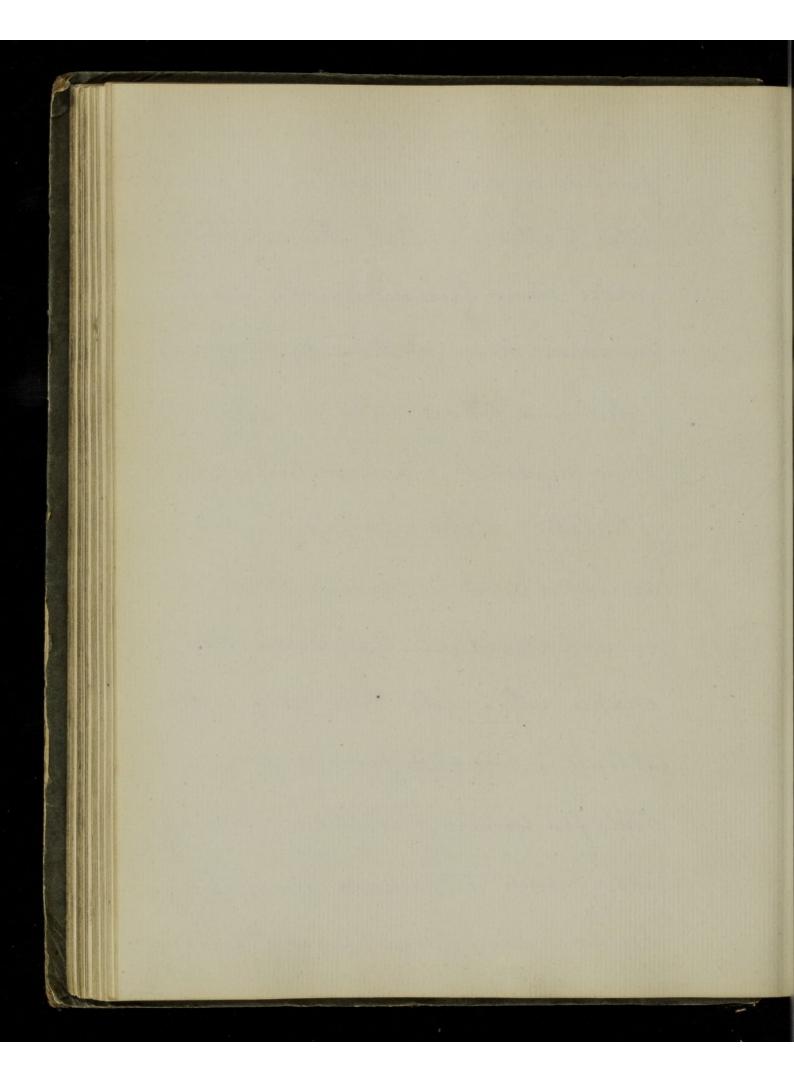
to advise that a moderate quantity of wine be not only permitted but enjoined in situations where bowel complaints of a certain Character prevail - & where we may have cause to apprehend the influence of contagious or marsh Exhalation It is however very idle to imagine, & dangerous to advance an opinion : that by drinking Spirite or wine, we shall Theme fortify ourselves against an invasion of the inflammatory Endemie - The Disease of New corners. arising from change of Climate. yet, within the limits of my observation This has become at times so



prevalent an opinion that, I have frequently heard some of its chosen Disciples very seriously express their fear that a sober hour might give the Disease an Opportunity of attach. When this example? proves infections, it is well calculated to destroy more men than the sword and Climate together without such aid. As however some of these Philosopher have now and Then lived extraordinary, (and perhaps fatal) exceptions to our Fears of drunkenness rather than to our universal rule of moderation: so this, their singular conservative



doctrine has seldom failed in gaining ground under the auspices of many able masters. But the inebriate school thus triumphantly reeling in admiration of their darling she-- cific and preventative _ seem to have neglected a arcumstance, in the calculation of their success - not un important: _ namely, that to every individual Drunkand who escapes with safety their fiery ordeal, at least a hundred fall its victims, While few loomen or Children; I may add French or Spaniards die of this Busease - who seldom if ever they drink



to excep- In a word, whatever hower we may allow wine to possess in restoring strength: or in securing the well-seasoned and reduced constitution against the baleful influence of march effluvier or of other Deseasy directly debilitating: I am well convinced, by experience, it can possess no such preservative quality against an attach of the Endemie - to The nature of which disease its opera= tion is congenial, & it should there: -fore for a time be carefully & sparing - by used by every stranger The arriver in this Climate from nothern Latitudes - more especially should be possess a

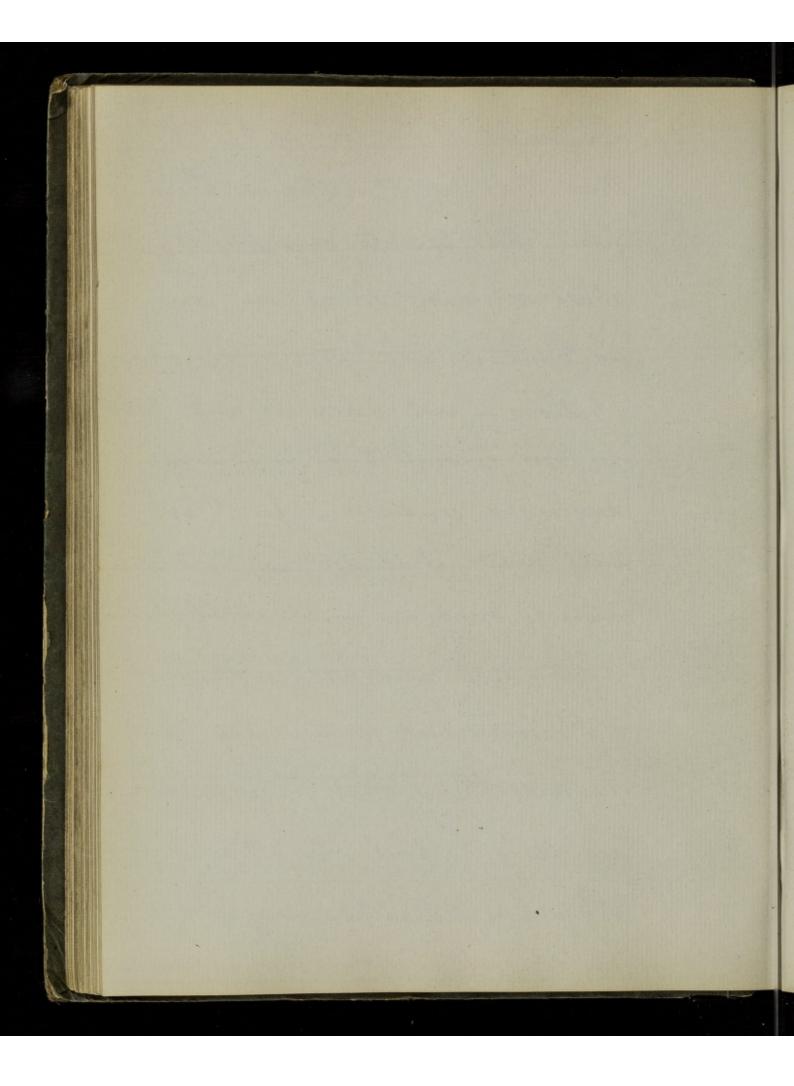
+ The following hote is transcribed from a Report I did myself the Honor to make in 1801 - to the Read of the medical Department in the West Indies" On Fever as it appeared in the 1! Batt. Royals at Saint Martin" - When I was Surgeon to that Regiment.

"Many men were attached with the first symptoms of the Fever, while rendered wholly insensible of their very existence, by a shocking state of intoxication. Which, every possible exertion of the best regulated Disapline could never effectually prevent. hor could the most sedulous Inquiries ever lead to a detection of those unwary men who in some instances conveyed hum into the wards of the Hospital. A practice not unfrequent amongst those who referring their present exemption from Disease to a preventive Virtue in the dreadful abuse of thong drink - gave are un limitted loose to the most destructive intemperance, which no dread or

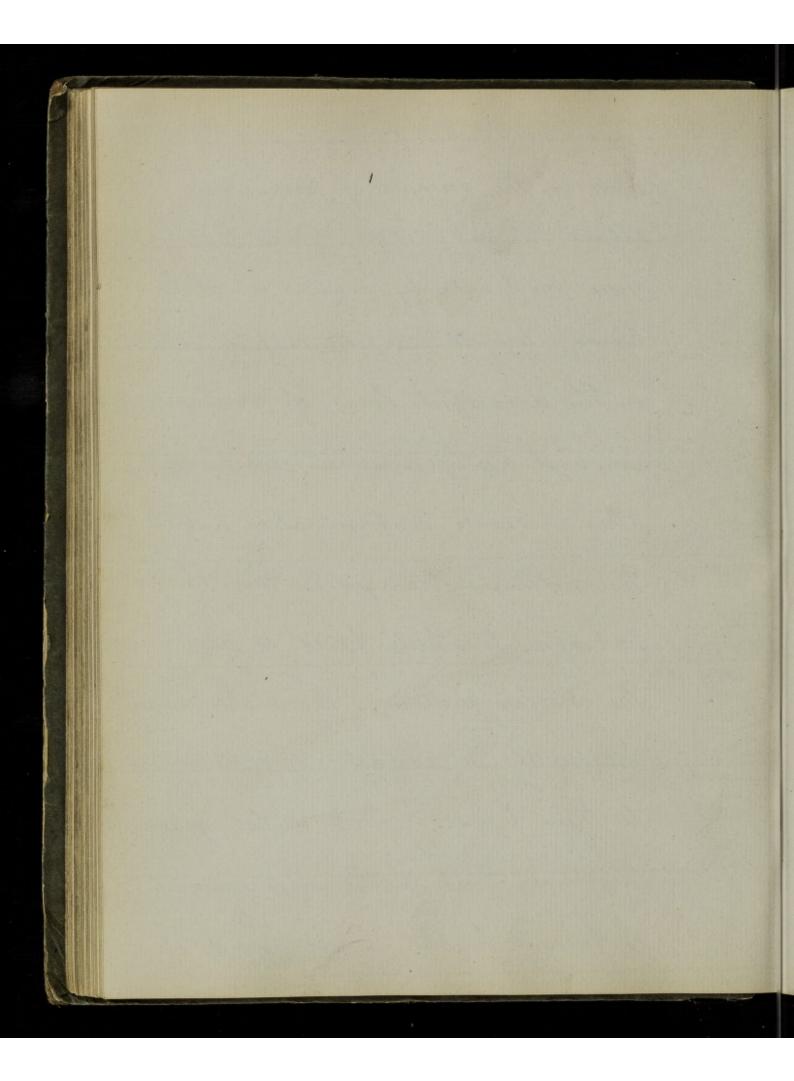
temperament and constitution favorable to the invasion of inflammatory Busease. The convideration of wine applies to all fermented Liquors - and to every expe= - nenced and candid practitioner in medicine - or other accurate Observer: it is but too well known what have been, at all times the dreadful consequences of existon the still more permicious, but too frequent custom of draw drinking, grog drinking, or any other porsonous means of debauchery & dissipation, Which may be had recourse to under

example of punishment was sufficient to chech"-

The pretent of preserving health by Those who cannot withdraw Themselves from their favorite enjoyment: I shall remain sitent in an unlimitted and entire dis-appros. - bation - not unmixed with pity" for their conduct & too probable dangerous condition - for I am well aware "it is not easy to engage men to break in whow established habits; or to renounce the pursuit of Pleasure: and particularly to persuade them that those practises are truly hurtful, which they have often repeated with seeming impunity-



I have only touched whow, and that but currority the means of preventing an attach of one Disease, which has been more particularly regarded with terror, by its preponderating influence in the dreadful Icale of mortality amongst newly arrived emopeans. Other Diseases unfortunately await the northern stranger in this Climate, but none to which he is so peculiarly The chosen victim. These also may frequently be avoided by attending to their Causes. But it too generally happens, that in the enjoyment of present health _ we regard it a



a Possession is permanently secure: That few pains are taken to preserve it from impending danger. Hence how often do we become almost, as it were un: = necessarily afflicted with maladies in this country, which we know from? worful experience to be ir-remediable in our Rands - neither our art or utmost care being equal to stay Their Jatal course - although prudene might have prevented their first invasion had her salutary lounsels been timely consulted. In endeavouring to trace the History of the inflammatory Endemie in

* It may not, it is presumed be impertinent
my mentioning that during nearly thirteen
years Tour of West India duty; — I hewe
been stationed in the several Colonies of
Barbados, It Vincent, Baliseau, Martinieo,
Trinidad Dominies, Antique, I' Bartho:

- Comew - I' Martin, I'Bitts, Antique again
Barbadoes a second time - then Demerara,

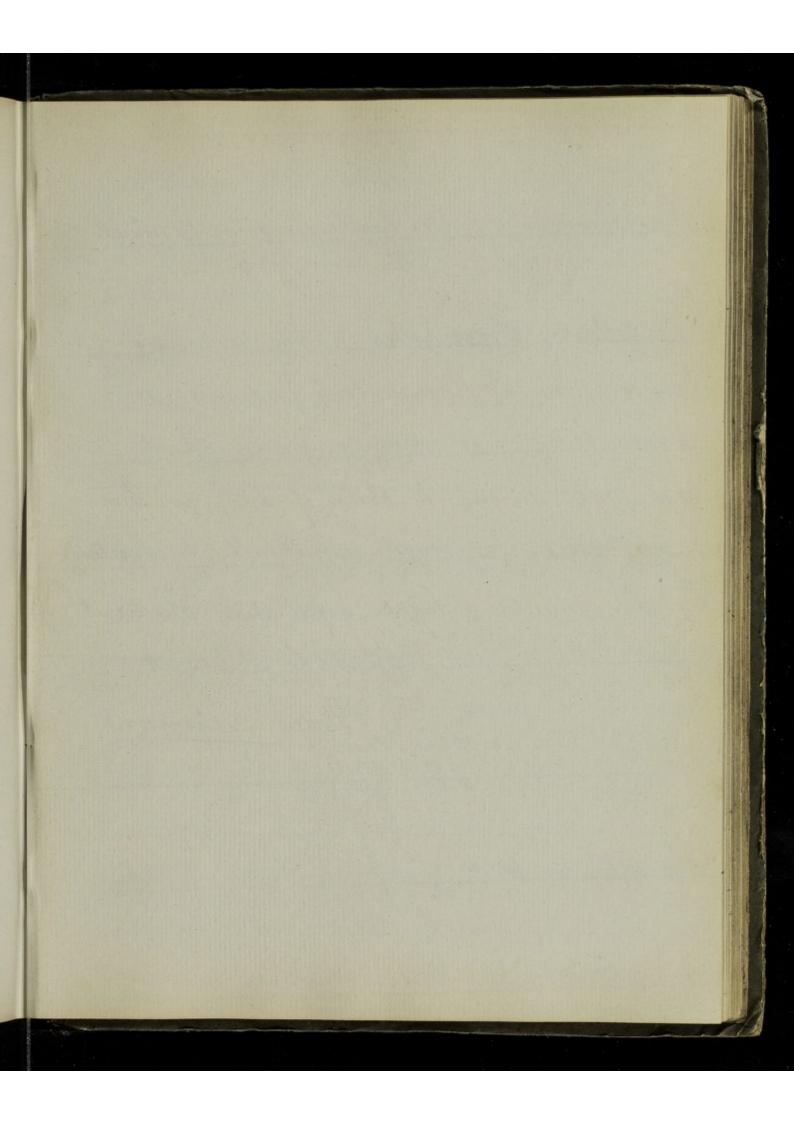
- Berbice - and lastly Grenada -

a pretty extensive field of Experience I have seldom failed in discovering its origin to be very intimately connected with an un-necessary expo-- sure to the hurtful exciting Cause: or to be more or less under The dominion of some glaving & extravagant act of imprudence - After all - we must not presume that by any scheme however plausible and well supported it may appear :- to prevent entirely the visitation of sichnes, and mortality, the inevitable condition of manhine - who however by their own actions often court destruction. " "men who change

+ I am aware it would occasion surprize in some & severe reprehension from others - that in any tolerably rational scheme of preventing the. "Yellow Fever" - the employment of Mercury has scarcely been noticed. Indeed, the fashionable Character it has obtained, entitle it to Consideration. Therefore, I beg leave to submit my opinion of the, at one preventive & curative specific - by trans scribing the following hote from my Report mentioned before - on Frever as it appeared in the 1: Batt. Royals -Mercury did not appear to possess a preventive hower - as men under Ptyalism excited to a gentle extent for the cure of Sapphilis, took the Disease very readily - hor did it, on a fair trial, appear to be specific in the cure have been indeed led to attribute subsequent Debility with morbid affections of the digestive organs to its too liberal use - encouraged by quat expectaricy - Many of my patients recovered from severe attachs without its apris = - lance: & that with a comparatively less tedious period of lonvalescence. hever thelep,

"Their native for a distant climate may be considered as affected in a manner somewhat analogous to plants removed into a foreign soil: Where the at most care and attention are required to keep Them in health, and to inune there to their new situation; since, Thus transplanted, some change must happen in the Constitutions of both hotwithstariong there remarks fall so short of explaining the Subject They have been wont to treat: yet are they drawn out to a tedious length I did not at first apprehend: & which I trust your Excellency will do me the Favor to I have the Honor tobe hardon! Your most obliged & Grenado april 1000 Nodes Suhinson

"I consider Calornel a valuable Jungative in certain arounstances of this Disease. as it can be administered in smaller compass Than almost any other medicine of that Class. & often with superior efficacy: But when abused under the influence of croneous Theories, or ill founded expectations; — it is hainful to recollect the mischief that has been done by it "— heport on Tever te—



.3.

Thomas Heate Esque Surgeon General

The following Premathy on the producing Causes of the Inflammatory Endemic on 'Yellow Fever' as observed since the Year 1796 during a Tour of duty in the West Indie, are most respectfully presented by his much obliged and most Obedient Phintle Servant Roder Dishinson

1. September 1000

11 Cecil Street Straws

inflammatory Endernic incidental to

Europeans on their arrival in the West Indies.

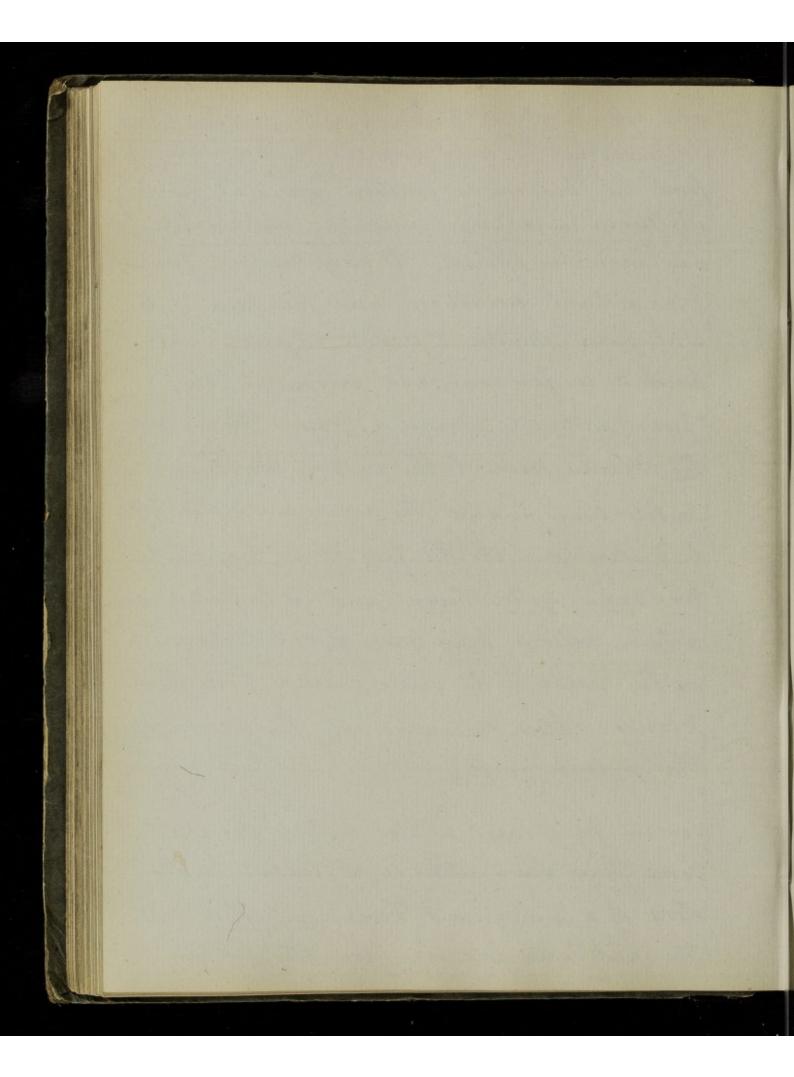
- transcribed from an intended "Essay on the
"Diseases of the Army in the Leeward Islands
- as observed since the commencement of

the year 1796"

The first appearance of this Disease may receive its date from the earliest Visit paid by the inhabitants of temperate regions to the torrid Jone: But, as it is foreign to the nature of this design to enter into minute historical detail; we shall only observe, that, when the devastation produced by so areadful a looninge took the attention of medical enquiry; an attempt to investigate its efsential hature & discover its original source, was the natural

* Vide Hillary Page 144 Vieg 9. Sait

and immediate result. In reviewing the early opinions on this head, we find the Disease in question considered not only infectious and uncommonly malignant : but was moreover affirmed to have been of foreign Har distant derivation and the Idea of its contagious nature & remote original was pursued in fanciful and erroncous belief. "from Palestine to Marseilles, I from there over The atlantic Ocean to the western World"-In later times indeed the american states have been alarmed with the fear of an imported West India yellow Fever: and in England even certain notions have been also entertained on the risque of its being carned from these Islands, Ithus introduced into the Bosom of The parent fountry. Teveral practioners as also authors who after some time gave little or no credit to The Hory of a malignant Fever, imported into The West India Colonies from the other



hemisphere: were nevertheles, indued to regard the Disease as preculiarly malignant and pestilen teal - and its origin was referred by the authors of this opinion to the latent reeds of a febrile contagion - an imaginary phantom, The creation of their own Brain! But without better proof than unqualified afection, or more convincing testimony Than mere conjecture, idle fears, or incondusive analogies: These terrifice notions (of imported & pertilential fevers) could not be supposed long to maintain their ground against the more certain test of medical Truth _ The cautions result of accurate Observation derived from a diligent and extensive Experience. When Therefore, it was demonstrated by the arrival of Europeans at different periods, in different parts of the West Indies: that a peculiar Disease was indigenous to hot climate, I only incidental to Strangers on Their first coming to the Country: While Exemption

+ Vide Blane on Discares of learner Page 80- 165 2408-

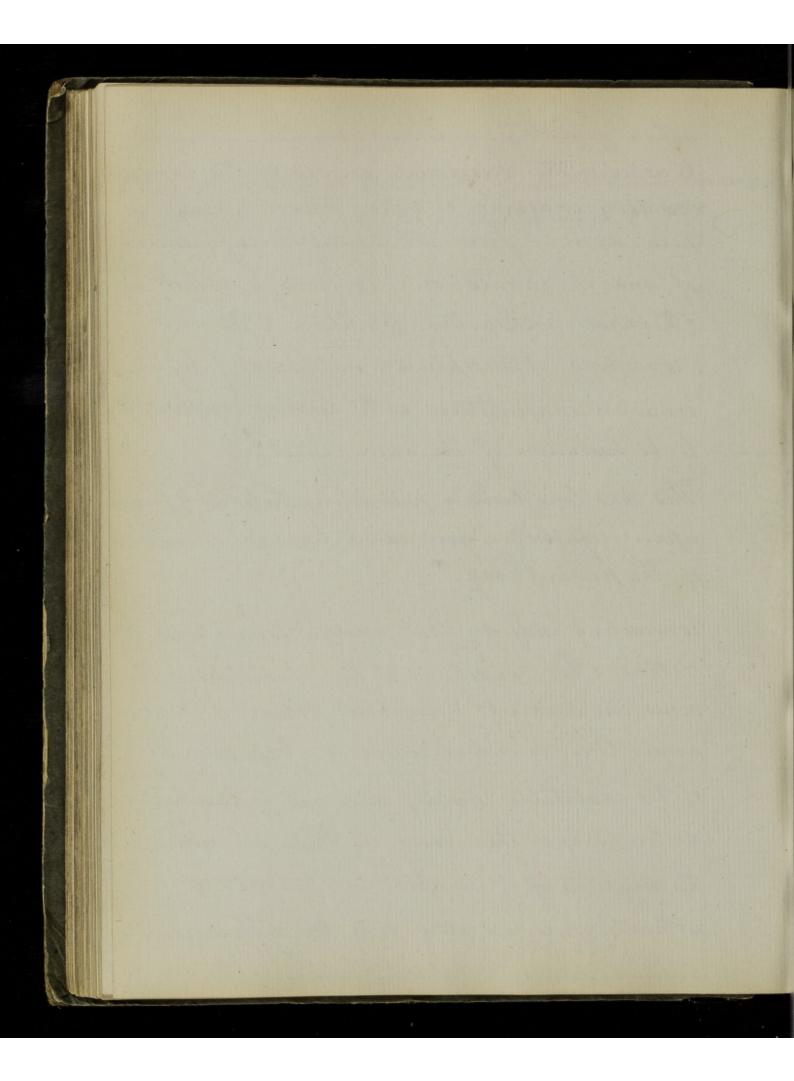
+ It weight however denominates the disease "Typhus interoides" and observes that it appeared to be the jail fever exalted to a great degree of malignity —

was the happy lot of those born in or inured to the high temperature of the torrid zone. - When moreover it became fretty well ascertained that intense degrees of heat, rather tend to dissipate than give action to The Principle of typhus Contagion -_ still more expecially, when it was her = ceived that a constant and intimate connection with those laboring under the Desease in all its stages & degrees of ma = lignity, had never afforded to the most careful Observer The slighest proof of its infections disposition. The opinion as well of contagious as of imported yellow Fever, lost much of its former authority and weight .+ Then was introduced under the auspices of many celebrated harner another Idea on the same subject ._ which, although perfectly correct within certain limits we shall hereafter en= deavour to define: appears to the author equally erroneous with the almost obsolete

+ Vide the writings on this subject of Lind - Clarke Dominique Munter Jamaico - M: Lean Saint Domingo . Fi & F

* See Fr Tachson's "butlines of the History & cure of fever - endemin & contagious" - P. 104 4

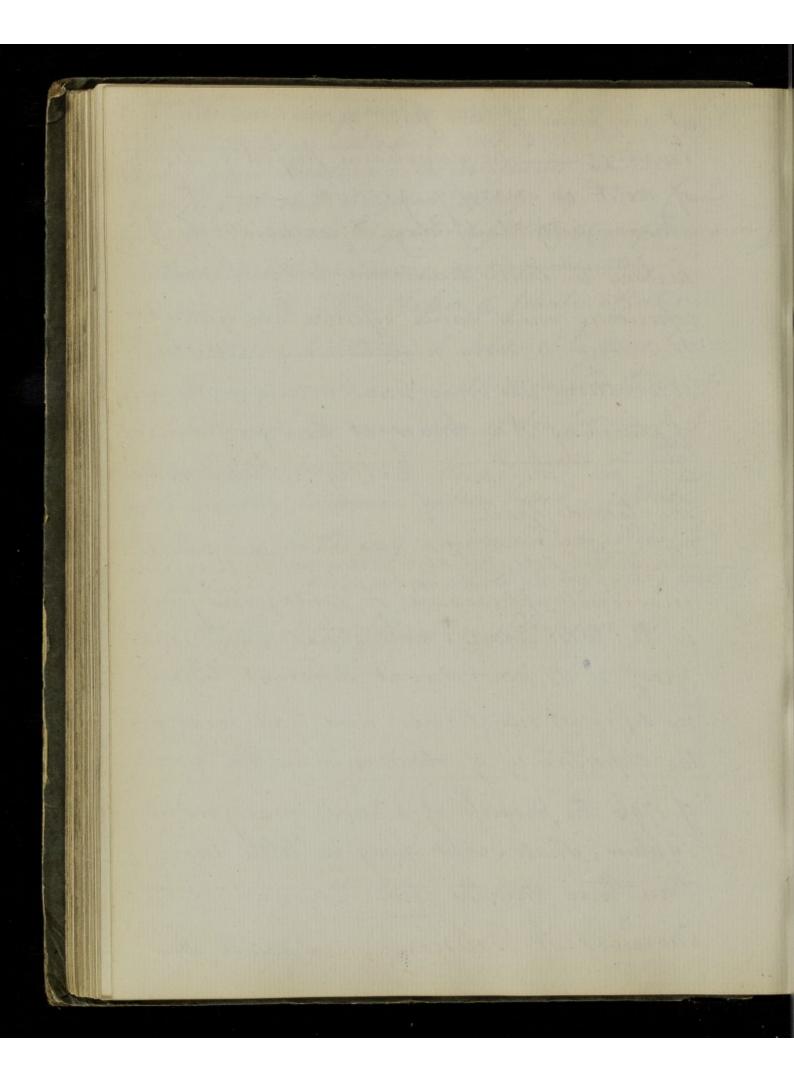
notion of contagion, when brought forward to explain the occasional causes of the inflamme - matory endemic or yellow Fever" which is here derived from the baneful influence of march exhalation: or from a mout or otherwise unhealthy condition of the vur -= rounding Atmosphere; supposed by some in conjunction with lunar influence, to be productive of the same effect. This has long been a prevailing hotion: I forms upon ingenious ground a learned opinion of the present Day. Considering indeed that march exhalation & certain other conditions of the atmosphere do occur an evident & fruitful source of Fever under this, as indeed in every other dimate of the habitable world; and are particularly destructive of the army in these islands: the mention of it cannot be permitted without some enguery into the difference Which appears to subsest between the



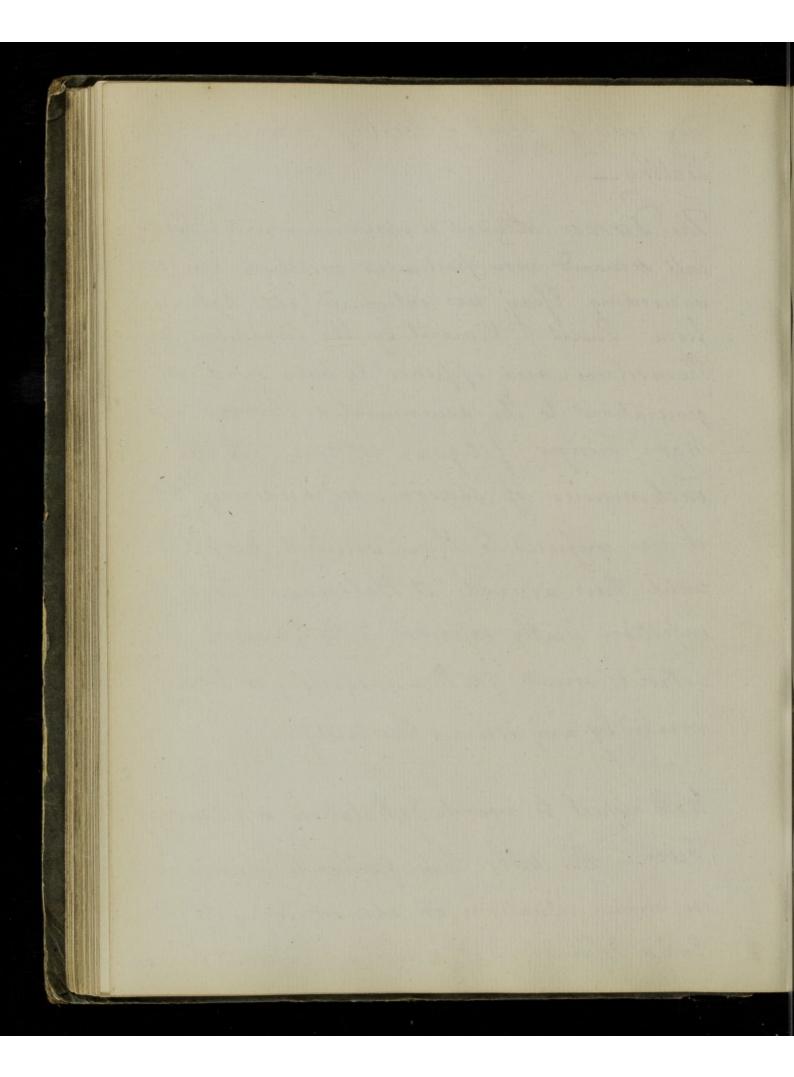
remittents of such situations and seasons as have been just alluded to; and the endermal inflammatory affection - the subject of these It is therefore with every deference to superior Judgment. That the author ventures to submit an opinion ___ founded, he is inclined to Think on accurate observation. That the inflammatory endernie or "yellow Fever", differs from fever strictly so called in several respects which ment distinction. - that it is neither of foreign origin, no The off spring of contagion - nor march exhalation. - and its undoubted freva - lene in seasons and situations, & under circumstances demonstrably unconnected with, and altogether free from the influence of those noxious powers will tend, he presumes to afford some confirmation of the just ness of this remark. - for that the Disease has committed its wonted ravages on the constitutions of strangers, at

+ It Chisoline has given us an auount of a "malignent pertilential fever, introduced into Grenada, by the Hanky from Boullarn: The treatment however, formerly. I believe suggested by S. Hunter of Samaice) should not have been so indiscriminately extended to the other Classes of febrile affection. The mercurial practice - I believe to have been productive of much harm, when carried to eacef. (as I have seen) in some cases of low fever: I if depended whom exclusively for the cure of the inflammatory Indemie "yellow Fewer" - Which I. Chiroline, by the way, considered unallied to the particular disease on which he expressly wrote) - I fear, the test of Experience will hove its insufficiency.

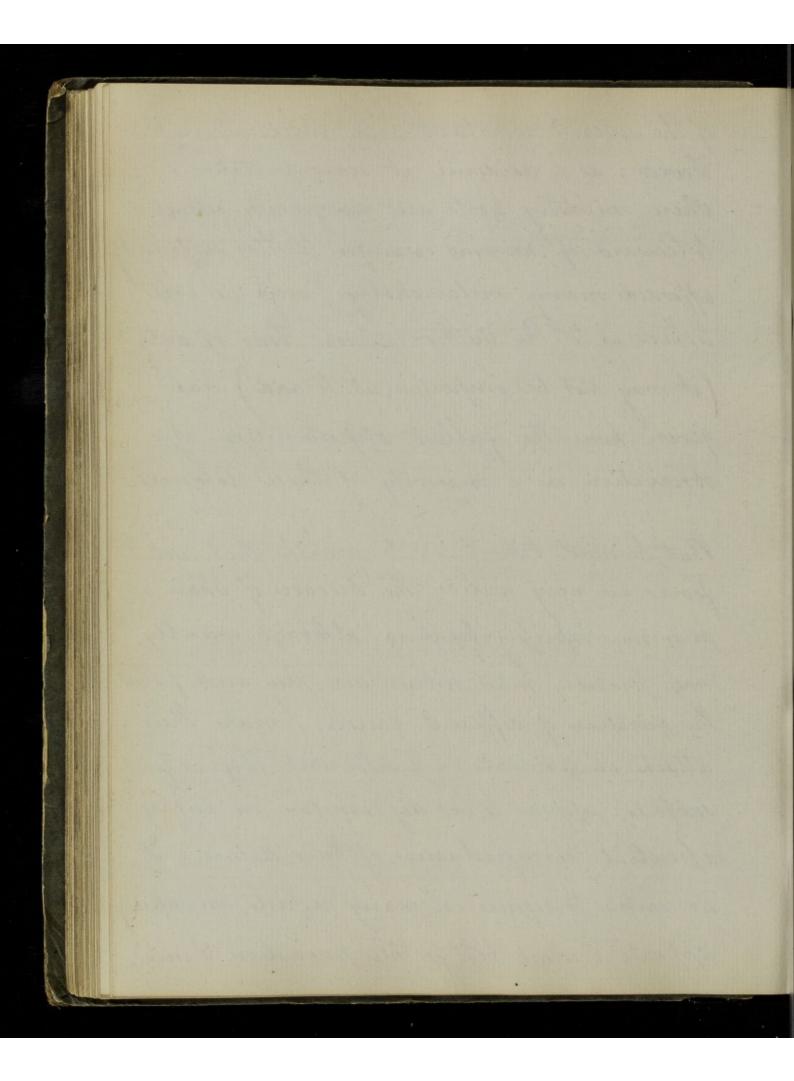
at any period of their first arrival in the Country; __ in situations perfectly clear of moist or swampy ground ___ at reasons particularly dry & (comparatively) healthy to those accustomed to the climate; experience must have afforded abundant testimony to every practitioner of attentive observation, who may have been in the habit of attending New-comers, at their first arrival even on the most healthy Positions under The torrid Zone_ The author does not here presume to deny the occasional appearance of contagious fever in the West Indies: having had sufficient proof of its existence at different times in different situations: and had, moreover The opportunity of observing in the tummer of 1796 the progress of a most malignant Typhus, which swept away in lettle more than three months two Thousand of the Charaibes at Baliscan _ a small, dry



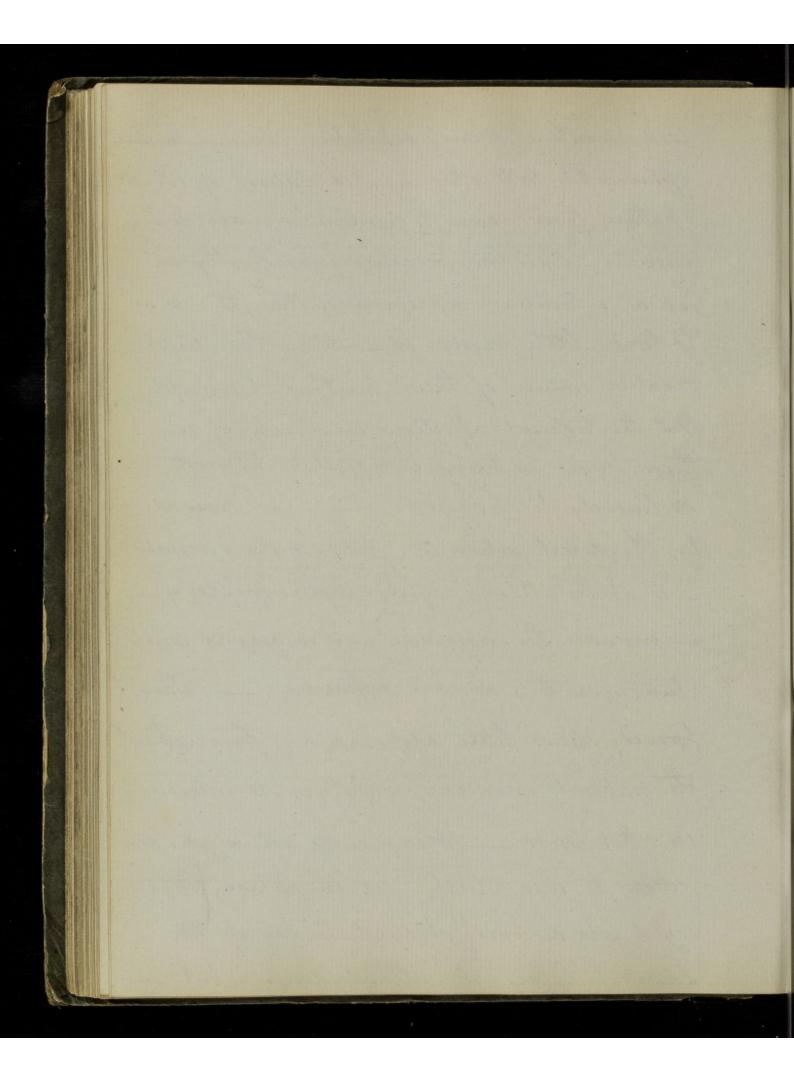
dry rock in point of locality remarkably he althy -The Disease alluded to above : _ and white will demand more particular mention in a succeeding Efray, was introduced into Baliseau from Paint Vinient by the Charaites Themselves: and appears to have owed its generation to the accumulated Horrors of War: hunger, fatigue, exposure to the inclemencies of season, despondency Les it was confined to these wretched people until their arrival at Baliseau : When the injection partly extended to the Garrison, but without much far ther progress - or bung marked by any serious mortality With respect to march Exhalation as a cause of Frever - The author has farther to observe. That in many situations on almost every West India Island, - it occurs an evident source



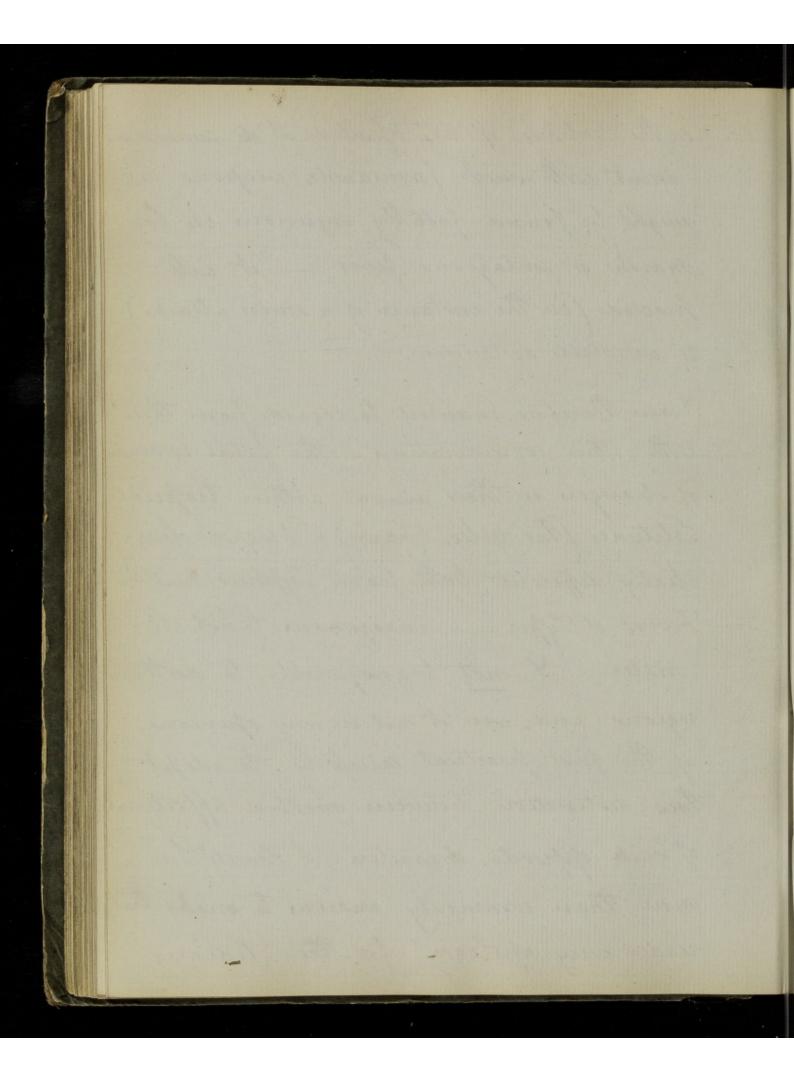
of the severest remittent and intermitting Fevers: as a residence at several stations Where military posts are necessarily situated to teeward of noisome swamps: has too sufficiently afforded many melancholly proofs as well toothers as to the author: whose Tour of duty (it may not be impertinent to add) has given him the fullest opportunities of observation in a majority of these Colonies. But he must take leave to remark that, such Jevers are very unlike The Disease of which he is now expressly treating: although equally, nay, probably more destructive. They arise from The operation of different Causes: make their attach, in general on a different Class of subjects: appear to be difficultar in every essential circumstance of their hature: as such - to require in many respects an entirely opposite Conduct both for their prevention I ame.



lold, moisture, march exhalation, vitiated human effluvior & with other refrected causes of idio = - pathie fever : seem to produce unaer every dimate - Then they occasion fever strutty so called, a peculiar depression of thength: 10 as to leave little room for doubting the directly sedative nature of their hurtful frinciple. But the tropical affection we speak of in these pages as being incidental, almost exclusively, to strangers: is caused by the direct action of powerful stimuli; - is at the attack highly inflammatory-- invades The sanguine and vigorous courte. = tution with a decided preference : _ when formed, shows little appearance throughout its natural course of salutary re-action: en other words: __ it evines no active disposition to aure itself; is in no wise, that I could ever discover obedient to any of the Laws of Crises or critical days: but on

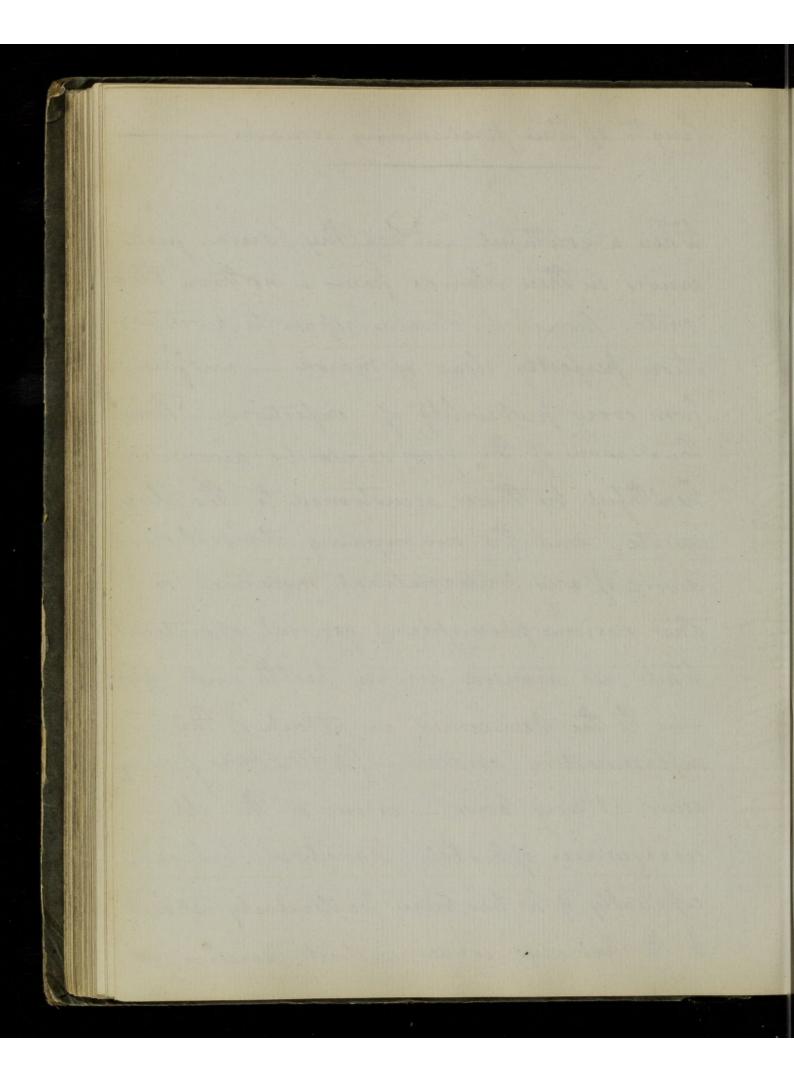


on the contrary, if not assailed at its commence = ment with such formidable weapons as might be found fatally injunous in low marsh or contagious fever: _ it will proceed (in the instance of a severe attach) to inevitable destruction -I am therefore induced to regard, from these with other consideration - The fatal Endemin of stranger on their arrival within tropical Tatitudes (The yellow Fever) a Disease essen: tially different, both from Typhus and the Fevers of Type: __ indigenous to hot clis mater - & not transferrible to northern regions: and, were it not in my opinion of the first practical necessity to adopt This distinction between morbiel affections of such opposite characters: I should be more than commonly anxious to make the reader every apology for the tedious

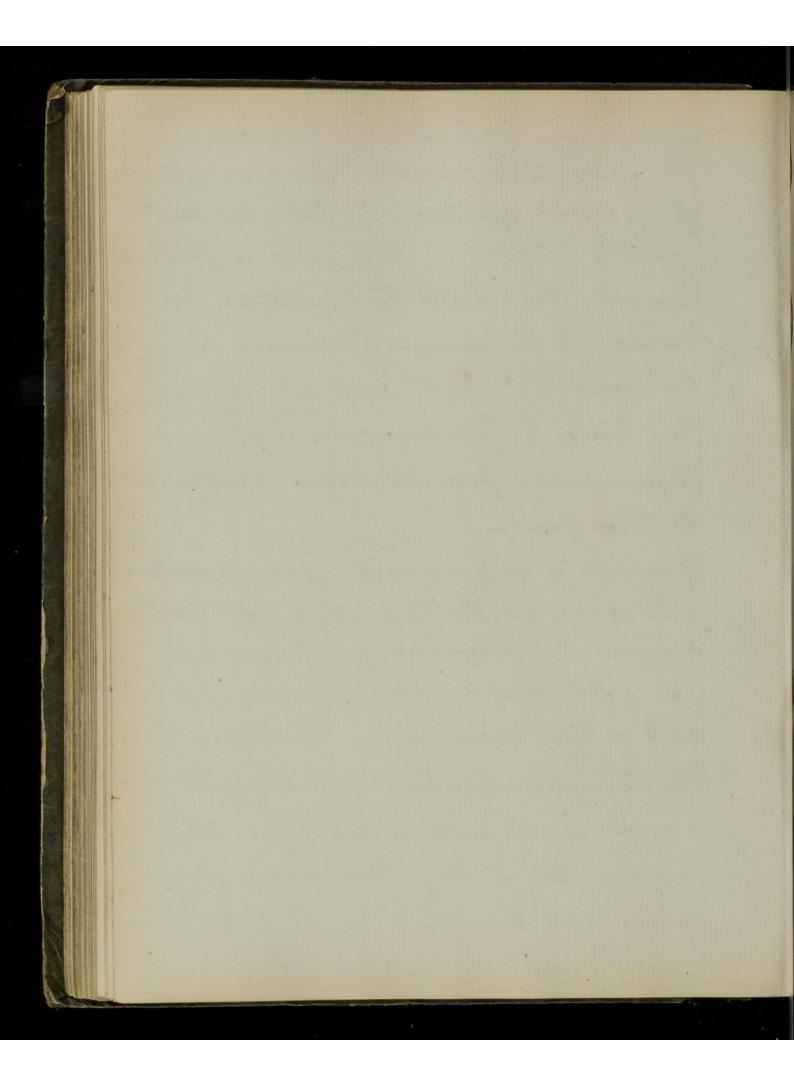


length of these preliminary remarks

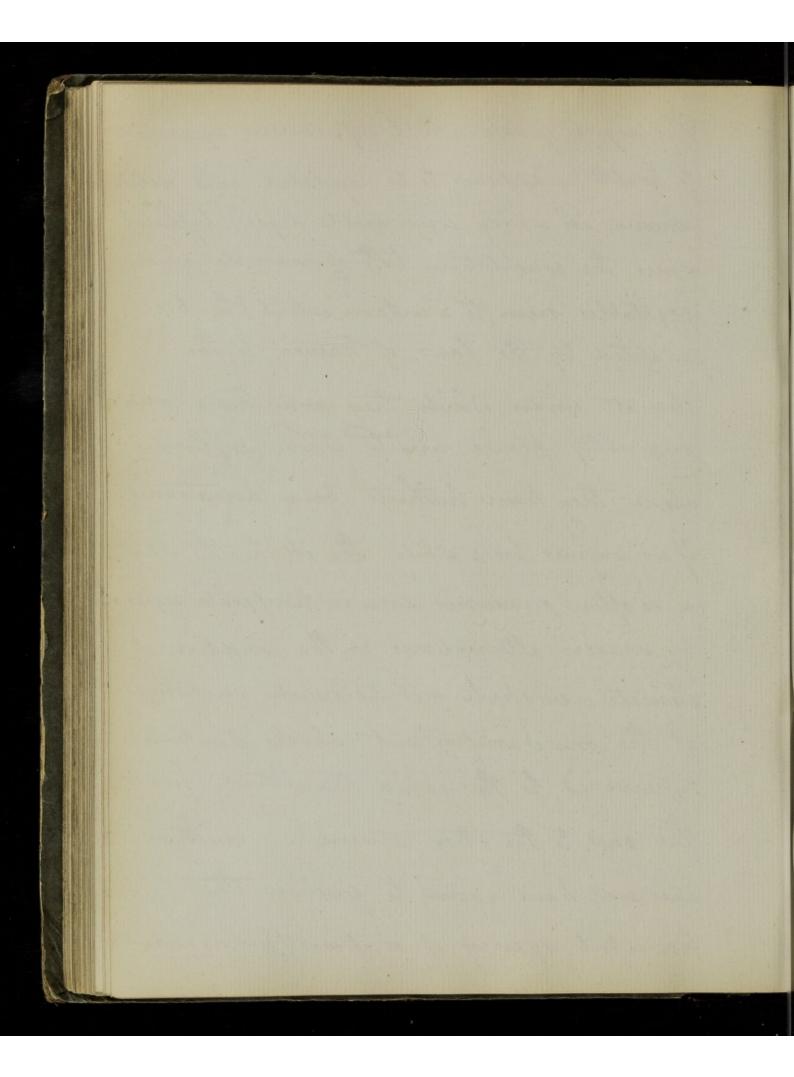
When a youthful and healthy person first arrives in these islands from a northern Clie -mate; Though he should repair to a setuce : tion herfeitly clear of march - and free from every probability of infection. - Though The season of the year should be accounted healthful by those accustomed to the di= =mate: and the surrounding atmosphere devoid of any preternatural moisture or other noxious principle of general operation. While all around are in health and vigue, inflammatory endemic [y clow her" | may occur, at any hour _ as one of the ill consequences of his late transition, but more especially if he has been particularly exposed to the Sun's rays under violent Exercises, on



intemperarue _ his habit of body being, at The same time probably, in a condition of peculiar aptitude to take on inflam. : matory Disease. And we may farther remark, that until the constitution becomes inured to the change of directe : every new corner to it, must necessarily continue Thus liable to these consequences of such transmigration from his native country into the torred zone -The arrival of winy regiment affords example of the above; but the Forces which left horth america at a cold season for the west Indies, gave a still more dreadful testimony of its buth on their arrival within the Tropics -This Observation has been well illustrated by a recent learned writer on this subject, who compares the effects of these sudden transsitions with those which succeed to the immers sion of a frost bitten Lind in hot water -



The degree of external temperature agreeable to health; appears to be regulated and deter-: mined in a very considerable degree by habit: since the constitutions both of animals and regetables seem to a certain extent I to be adapted by the laws of hature to the climate under which they may have been originally placed and to whose influence alone they have hotherto been accustomed. If we consider for a while the ill health which is so often occasioned, even in temperate regions by sudden alternations in The condition of climate: we shall not be much surfriged at the more important shocks which supervene to the rapid transition from. the one to the other extreme. neither can we have room to question the powerful agency of excepive thermanent



heat: When, from time to time we have had so many opportunities of observing in others and moreover of experiencing in ourselves The effects of so general, direct, I violent a stimulus, which, on application to the get unassimilated constitution of the stranger wer in as moderate a degree as may be supposed; rarely fails in exciting some degree of inflammatory tumutt: as every new corner who exposes himself to its influence will bear evidence beyond dispute - nor need we remind practitioners The deny the power of extreme heat (as experienced by Strangers in tropical Latitudes) in producing The yellow Fever, of the too frequent occurrence of idiopathic phrenzy & the affection to aptly termed loup de Soliel, Which sometimes instantaneously follow an exposure of the head

"The heat of the law is very often fatal with us, as well as in other lounties - I have seen Labourers, returning from the Plough, fall arown and die""I have seen similar effects in the electorate of Manover""In France a child was seen to lose its memory, during the summer heats"

"Titringh says that at Curafraw, Europeans on their arrival are commonly attached with ardent Fewer" Zimmermann on Experience in Physic — see Note at the end of the Manuscript transition from the London frients lately -

to the Suns rays.

- 1. Exposure to the intense thormanent heat
 of the Climate While unaccustomed to its
 influence—
- 2. Intemperance of every hind.
- 3. Violent Exercises,

Thise affecting in a greater or life degree, Constitutions prome to inflammatory Disease: — sometimes aided in Their seperate or united Force by auxiliaries not altogether so perceptible or obvious in their operation: are regarded by the buthor fully adequate to the production of the inflammatory Enaemic yellow Fewer) under every degree: in confirmation of which, abundant testimony might be

+ A moderate increase of external temperature induces their heir herspiration and in those who readily part with their heat or The perspire freely no other effect will superviewe: except in some instances a deque of Lassitude. When however the external heat is farther raised & heft up, as in the instance of those who expose themselves to the Suns in the West Indies (to a degree of heat generally approaching to 130-) this inordinate stimulus produces painful sensation: __ appears to excite the Capillaries into unuoual action: - inducing at length a construction of the Vefsels on the surface. - The perspiratory discharge is in consequence suppreped: While the heat in the system being now retained; soon induces an increased action of the vascular system. Hence appears to arise the symptoms of the first stage of the Disease. When however the living principle becomes exhausted by continued over exertion, relaxation seems to succeed The previous violent construction. But this relaxation does not appear to be the salutary Cuterion of The solution of febrile action, or critical in any shape: but is merely a symptom of the debility which follows over exertion: And its farther consequence is not a healthful perspiration with salutary

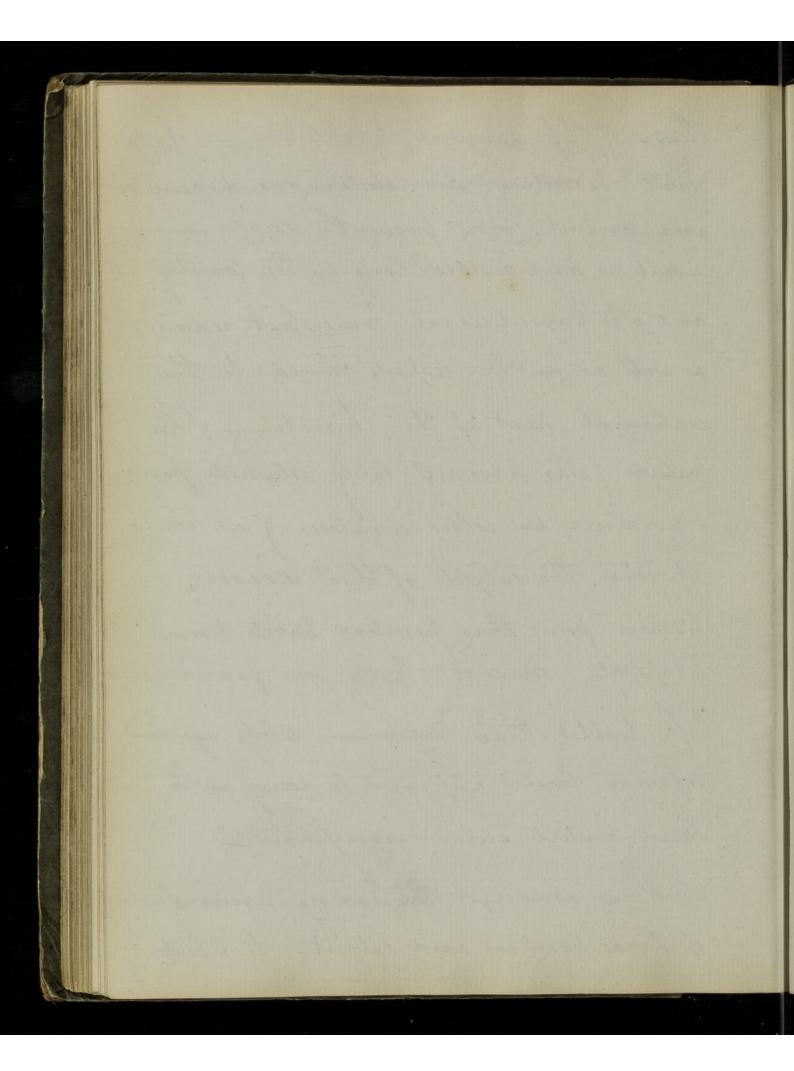
brought forward here, were it within the limit, of these currory observations to adduce particular examples of its having occurred in many instances within the authors hnowledge the immediate and evident consequence of such exposure as mentioned above; under circumstances in which, neither infection, nor march exhalation, nor any feculiar condition of the atmosphere, otherwise than from heat, could in the least be suspected —

An inflammatory Diathesis occurs a principal pre-disponent Cause of this Disease: of which we have additional testimony in the contemplation of its favorite Subjects.

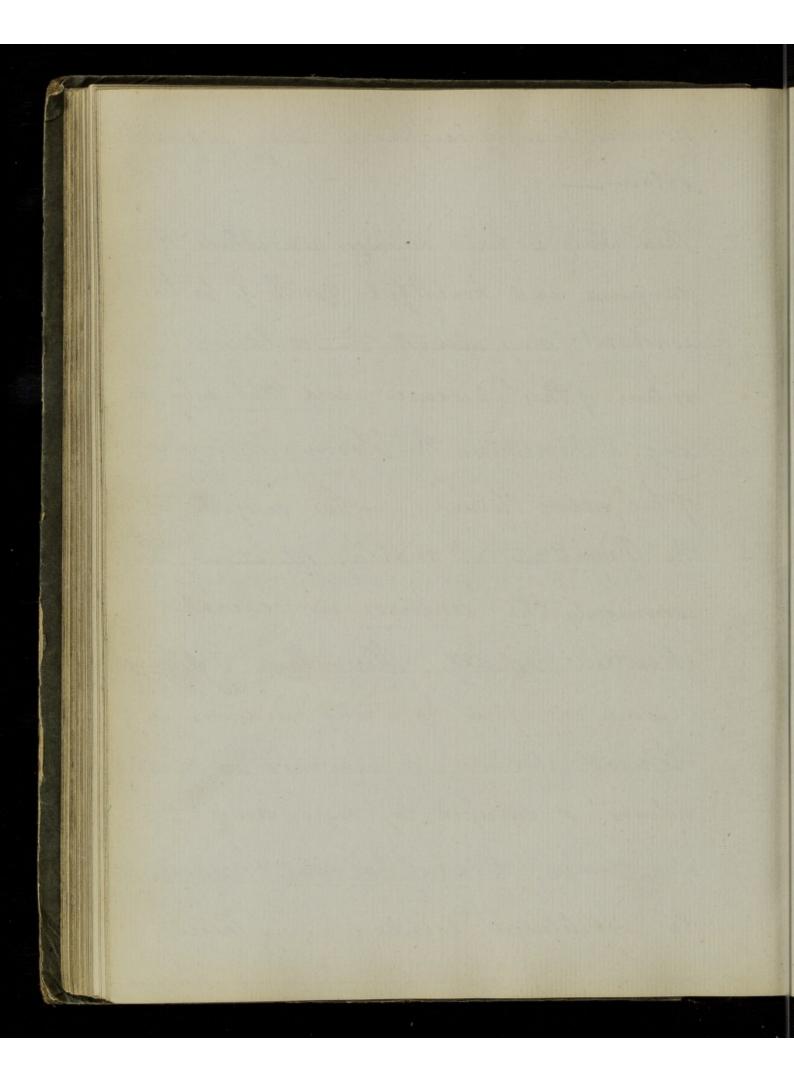
These have ever been found amongst the full, plethovic, youthful & robust; —

note Continued dammy sweat preceding mortification & Death -

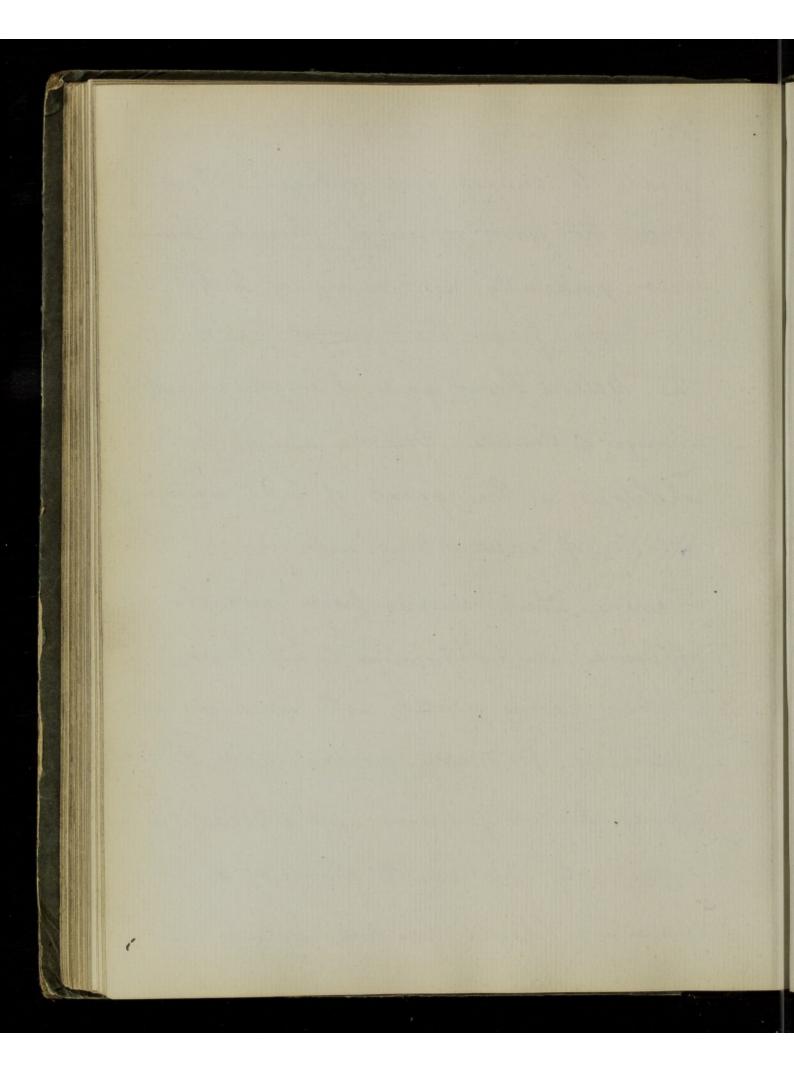
Those of les sanguine Constitution ___ of spare habit - sedentary and absternious disposition and conduct, more frequently escape -- such as have resided long in the Country and who have become somewhat reduced by, as well as , in other respects inured to the continual heat of the climate - The natives (The have not lately returned from a residence in colder countries) are rarely. if ever the subjects of this disease; Women, from their peculiar habits &mne temperate conduct, have been found much less liable than men: __ while age and infancy have appeared to carry with There a still surer exemption _ Tuch are amongst the leading circumstances of predisposition and subject: to which



however many exceptions may frequently Thus, while we have always remarked the sanguine and healthful youth to be the constant, nay almost the exclusive victim of this Disease and that only, so long as he retains the bloom and viguer of his native clime : - The subjects of The Remittents of marshy situations, are commonly the converse in several effectial respects. Hence those who have become enervated by a long residence in tropical climates; or weathered by mans nition, or depreped by despondency to also women, Children, habitical &, consequent - by debilitated Drinkers . __ There are principal in that Class of Subjects



Show we have perceived to be the most liable to march and contagious Fiever Then the first effects of chimate have been gradually done away by Habit who, escaping from the mortal Terrors of The yellow Fever, and at length inuned to change of demale: become almost living sheletons in the grasp of long continued attachs of intermitting and remittent Fevers: Which, arising from march effluvier are not peculiar to hot Regions. These having resisted with unconquerable destinacy, for many months every other remedy however judicious and esteemed; very surprizingly give way to change of air or Climate. Should however recourse not



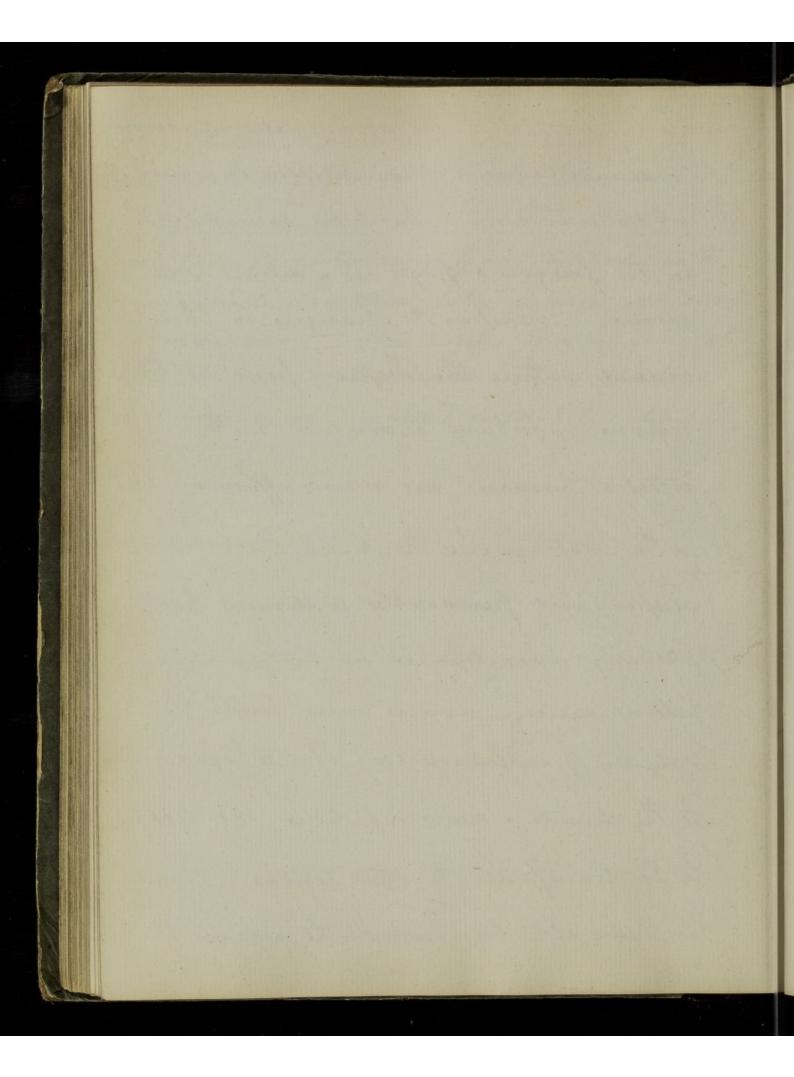
not be had to this sovereign means of Cure: be can scarcely form any calculation of The time they may continue their insi : - duous and exhausting encroachment on the constitution: While, on the other hand, the progress of the inflammatory endemic of strangers in the West Indies (" the yellow Fever") is, as it were a rapid combustion, whose fatal course is frequently finished within a few hours, unless it be extinguished in its Birth -The Effects of march exhalation are severely experienced both by the nature inhabitants and Strangers: and the residence which inunes the latter to change of Climate &

+ have glanced, in some pages of this Manuscript, at a Report Shiel I made in 1801. to the Head of the medical Department in the West Indies - on a fever which attached the Royals during the dry trultry months of July & august soon after their arrival - in this report I find it is noticed. that " Buring the whole period of this submels - the native inhabitants - The Creoles from other islands also Regroes - the Men who composed the detachment of the black regiment: and such europeans as were inuned to the Climate, - preserved their wonted health - but hew comes to the Country, not belonging amongst whom there were but few instances of exemption. At the conclusion of this Report I find it remarked that "no sooner had this (inflummatory) I wease quetter us at Head Quarters in October: Than the heavy rains which set in during the latter end of hovember were accompanies by many I severe attacks of remottert Fever in a hart of the Island which had hetherto meanly escaped The first fiery ordeal - probably from its much

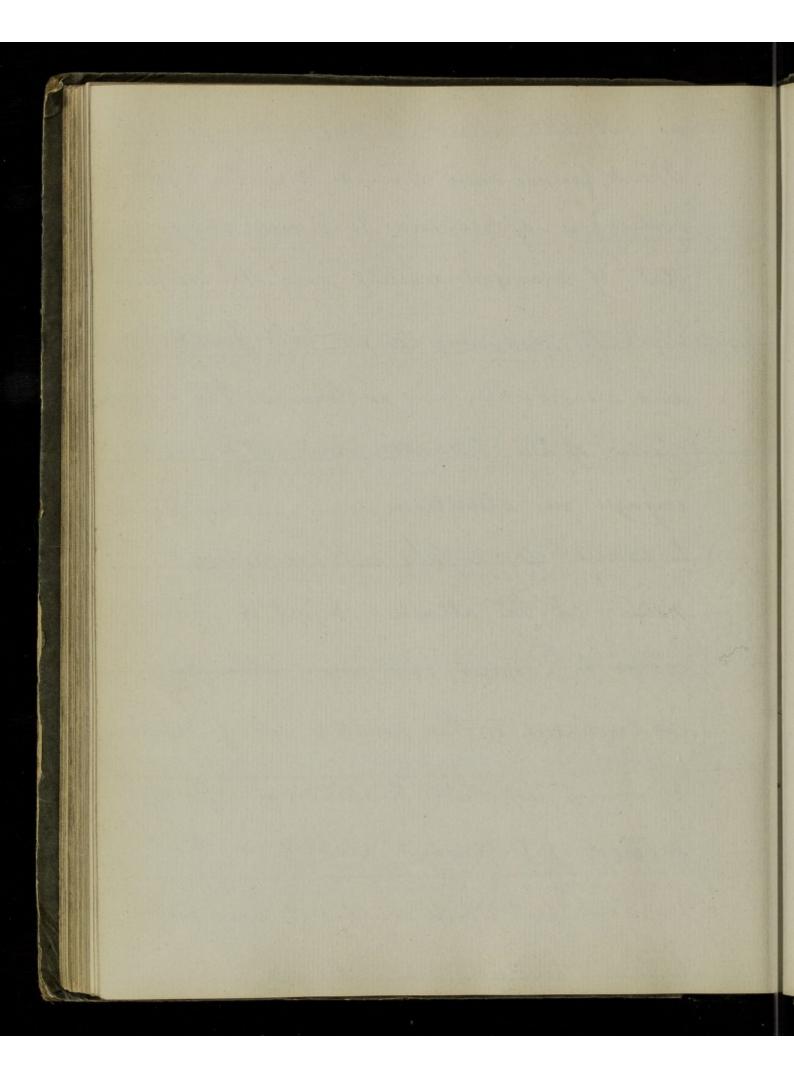
and theme secures them, in great measure from an attack of the inflammatory endernie affords them (as before remarked) no protection from the Fevers caused by vitiated human or march Mhivia - And while the ardent or yellow Fever, may possibly attach a New comer in any situation, under this intern: -perate region: The marsh Fewer is not only confined to certain Islands; but is restricted in these to particular spots of Ground ____ generally showing them = - selves only at seasons which favor the production of their exciting Cause - into Whose essential nature or mode of operation, it is not, at present my intention to enquire.

"Tooler situation to windward - But which in its turn now began to suffer by the exhalations derived from a neighbouring march - In these attachs, the tonic plan (aided by change of air tituation) with very moderate wacuations fully answered our most sanguine hopes" While in the Summer foor at Acad Quarters, our sheet andor was venoseition and free purging - employed early in the attach"-

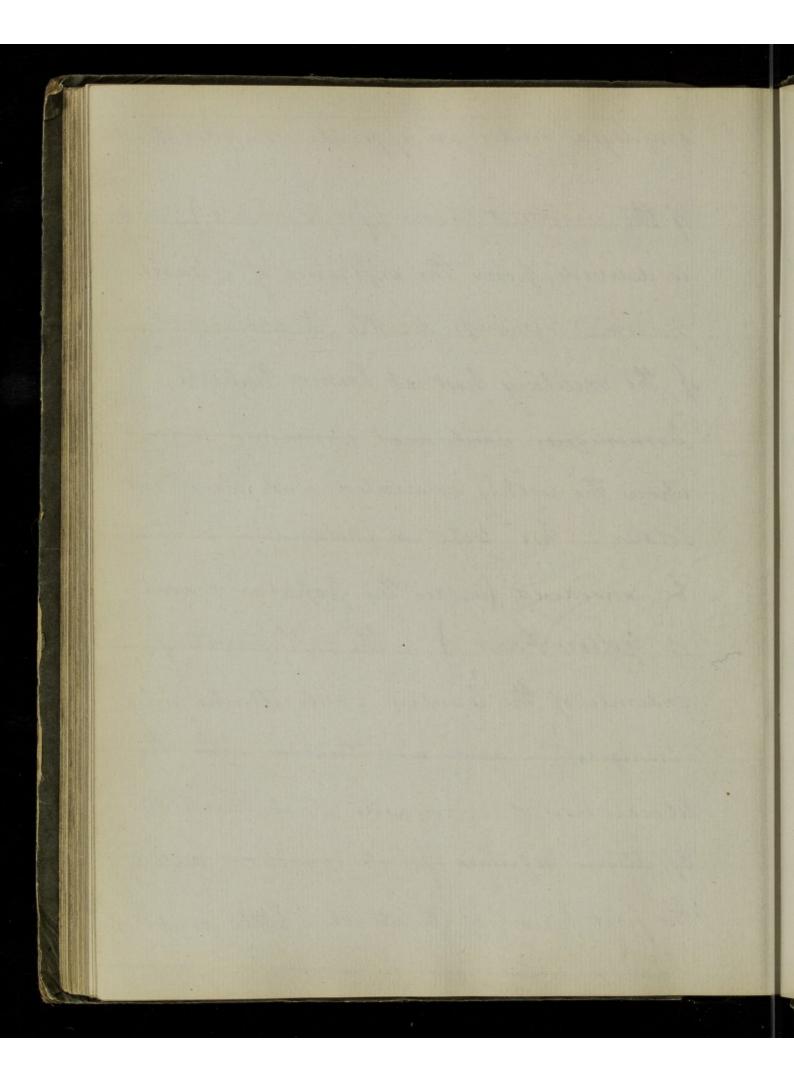
To re-capitulate - The inflammatory Endernice "endernial Causus" - " concentrated Endernie" or "yellow Fever" has been considered in the fore going pages, as a disease, sui generis: - peculiar to strangers on their arrival within the Tropies from northern regions - As being occasioned neither by vitiated human nor march effluria. but on the contrary by the direct operation of exceptive and permantly continued heat. probably accompanied by fatigue and intemperance; - and as being liable to subjects of inflammatory Habits - in digenous to the climate, - never infectious, - nor liable to be transferred to other regions. Hence we have also been induced to regard it



as but little allied to idiopathic fever. Thuch, (as we have observed it in the West Indies) we apprehend to consist in a state of manifest debility from the acception. While the producing Causes, both fre-disponent and occasional; - as likewise the symp: toms of the Durease which at present engages our attention: ___ equally tend to evence its highly inflammatory nature at the attach: A fact we have reason to presume still more strongly substantiated in the pointed success experiences by many respectable practitioner - from a method of treatment adopted on this opinion: but which could not have failed to prove injurious, had the same been

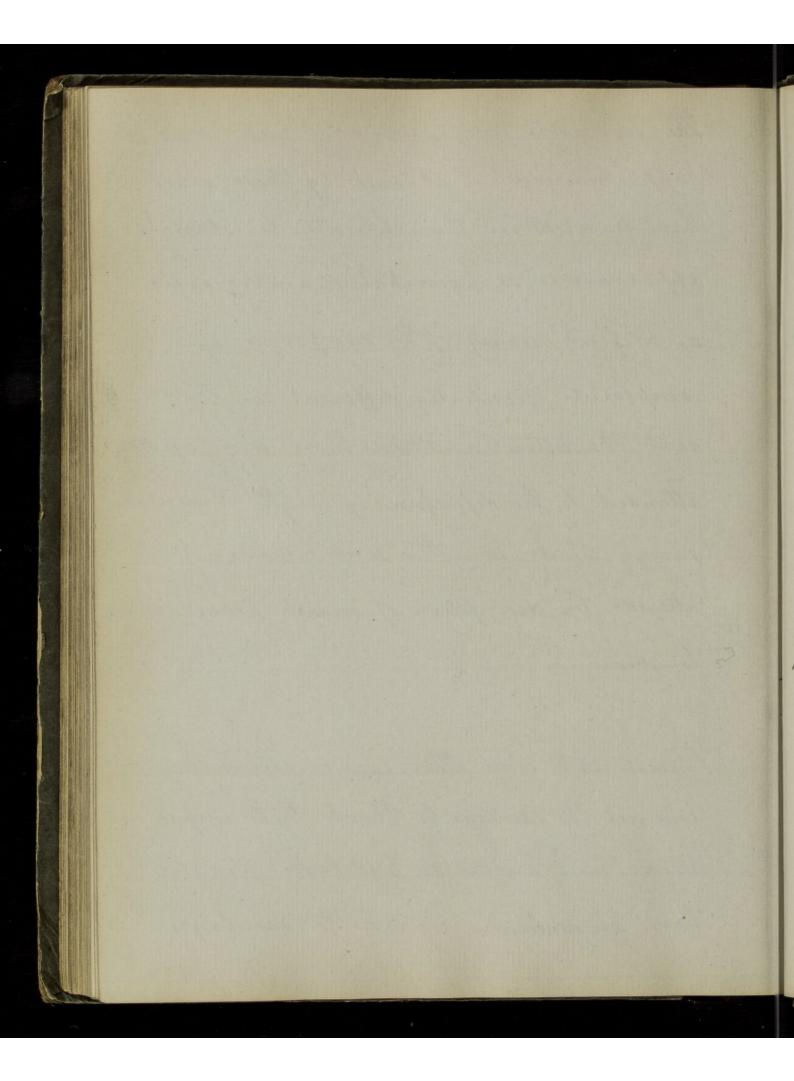


employed under an opposite consideration. If the remittent Fever (for Example) which is derived from the influence of a most horsome swamps directly to windward of the military post at Prince Ruperti Dominique: Shich most commonly seizes whow the weakly, enewated and worn out Toldier - his wife or Child; - were to be considered funder the popular name of "yellow Fever") as the inflammatory endemie of the Country which attachs only strangers and were treated with the liberal use of evacuants which this latter affection requires for its reduction during the first period of its attach : little doubt, I can presume, will be entertained of the



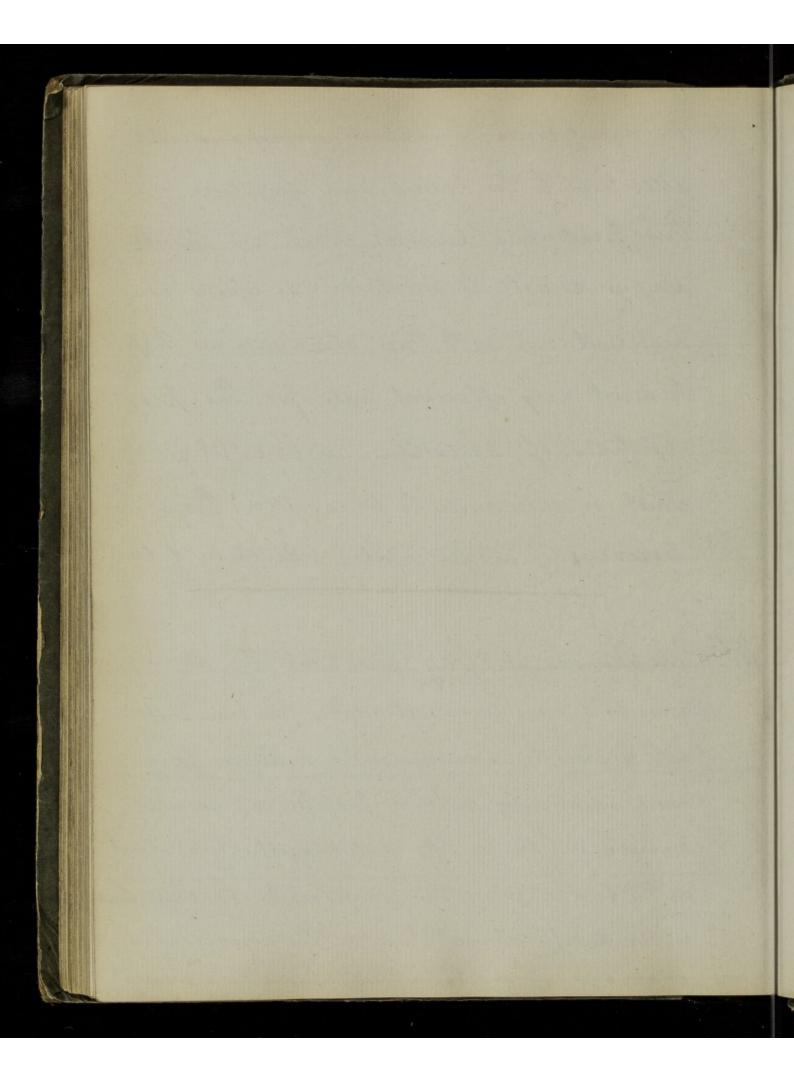
The injurious consequence of such mis = apprehension - at least by those who have learned in this climate to estimate appearances so remarkably ambiguous as we find many of the symptoms of complaints, essentially different in their real Characters: and The have consequently attended to the depression of thength & mental energy which, from the commencement attends the description of march Fever alluded to above -

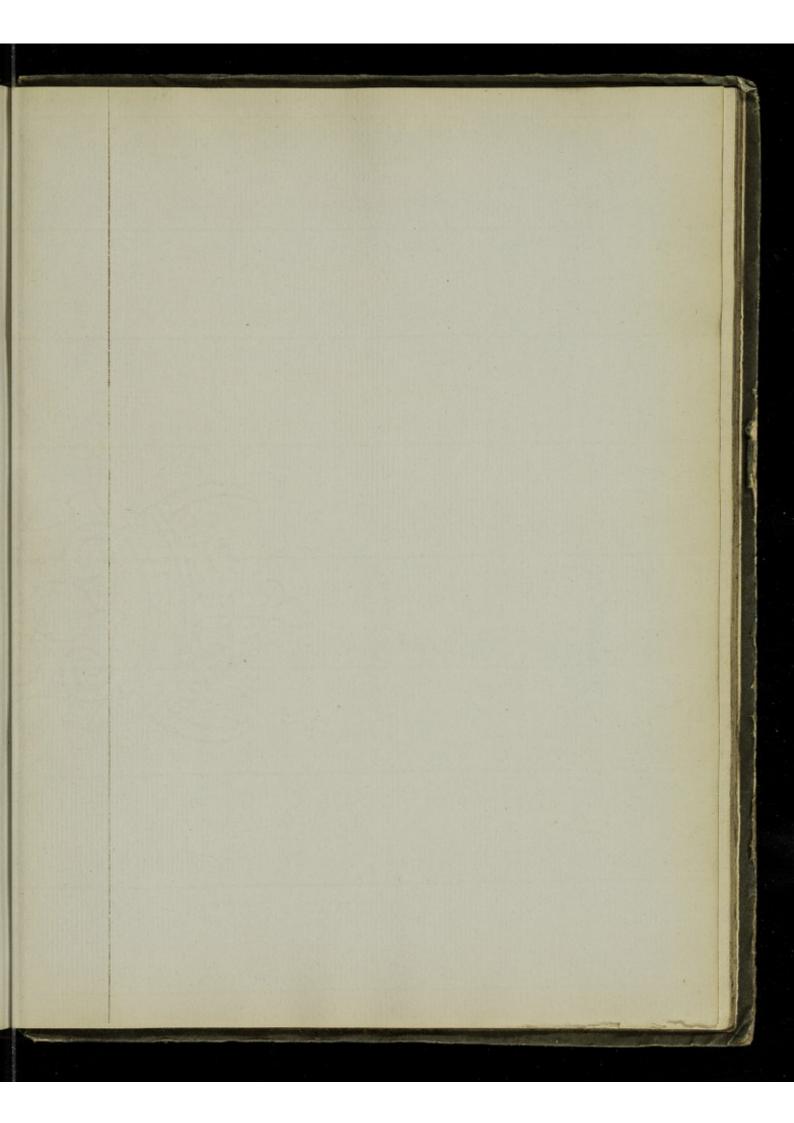
These, with some other considerations have induced the author to think that, important errors have airen in West India practice, from an exclusive regard to analogy

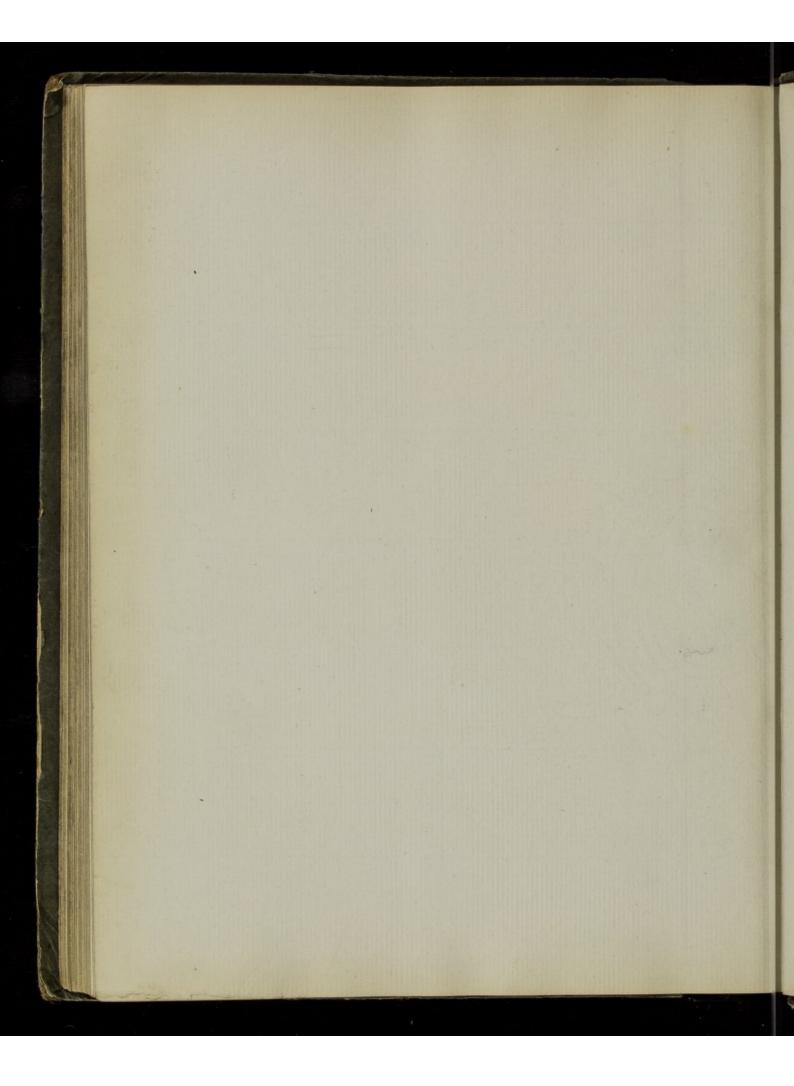


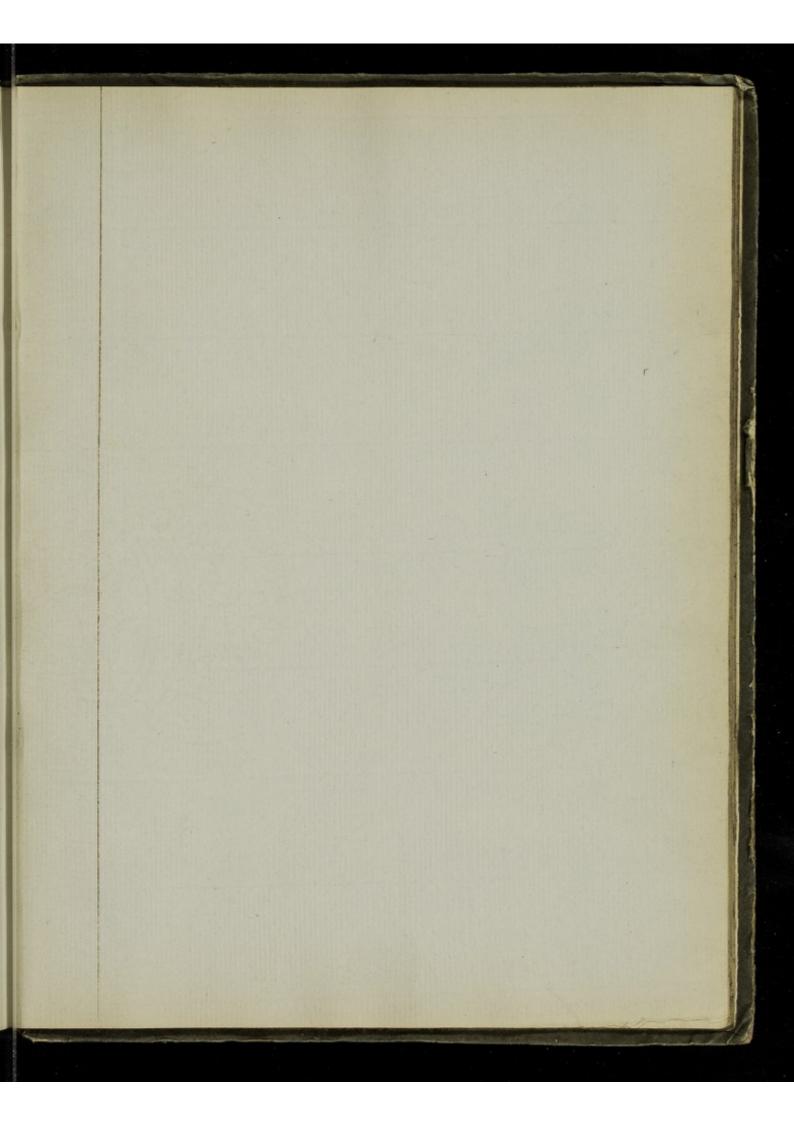
in symptoms without correspondent attention to the hature and operation of Their producing lauser: Thich we should always do well to ascertain : as upon an arquaintance with there, alone can we hope to direct any efficient rule for the pre-: vention of Disease _ a knowledge in which is even more to be covetted, than the discovery of a successful indication of lure.

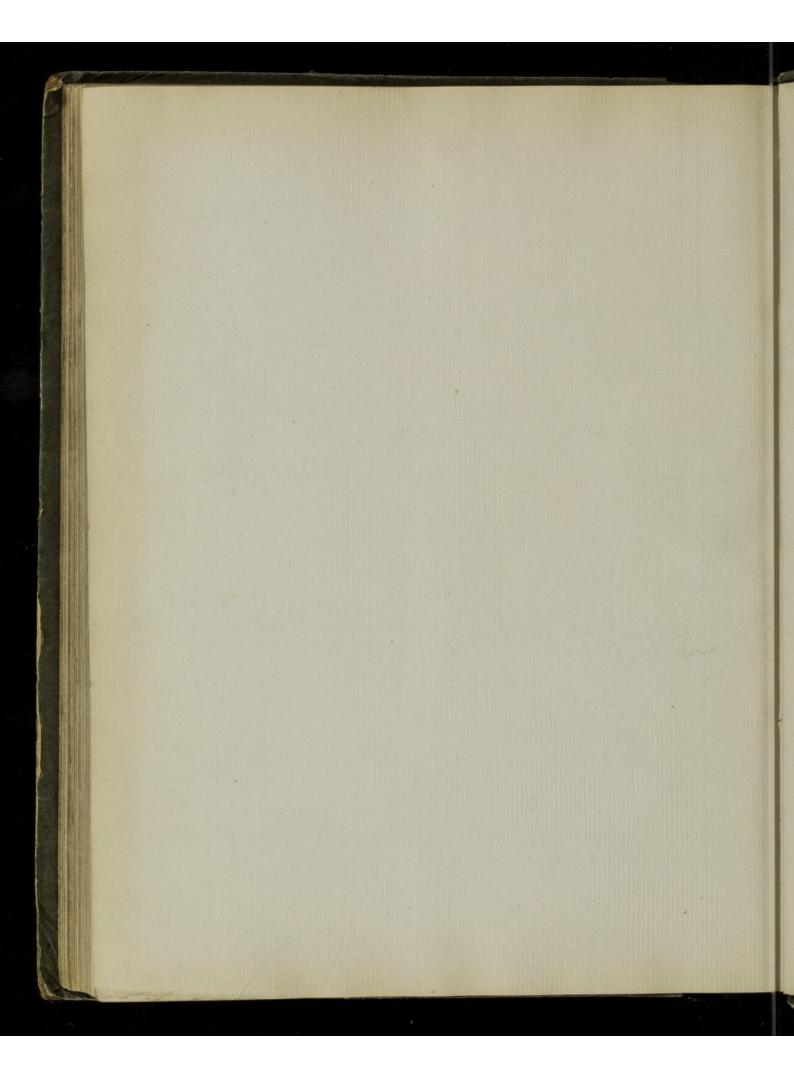
MB The Manuscript Essay from which the above "remarks"- have been extracted, has been written with a view to recommend a practice long since adopted by certain profesional men of eminence. This is the antiphogistic treatment in the first stage of the complaint, in opposition to the directly stimulating - the universally evacuant - or the Pately fashionable mercural

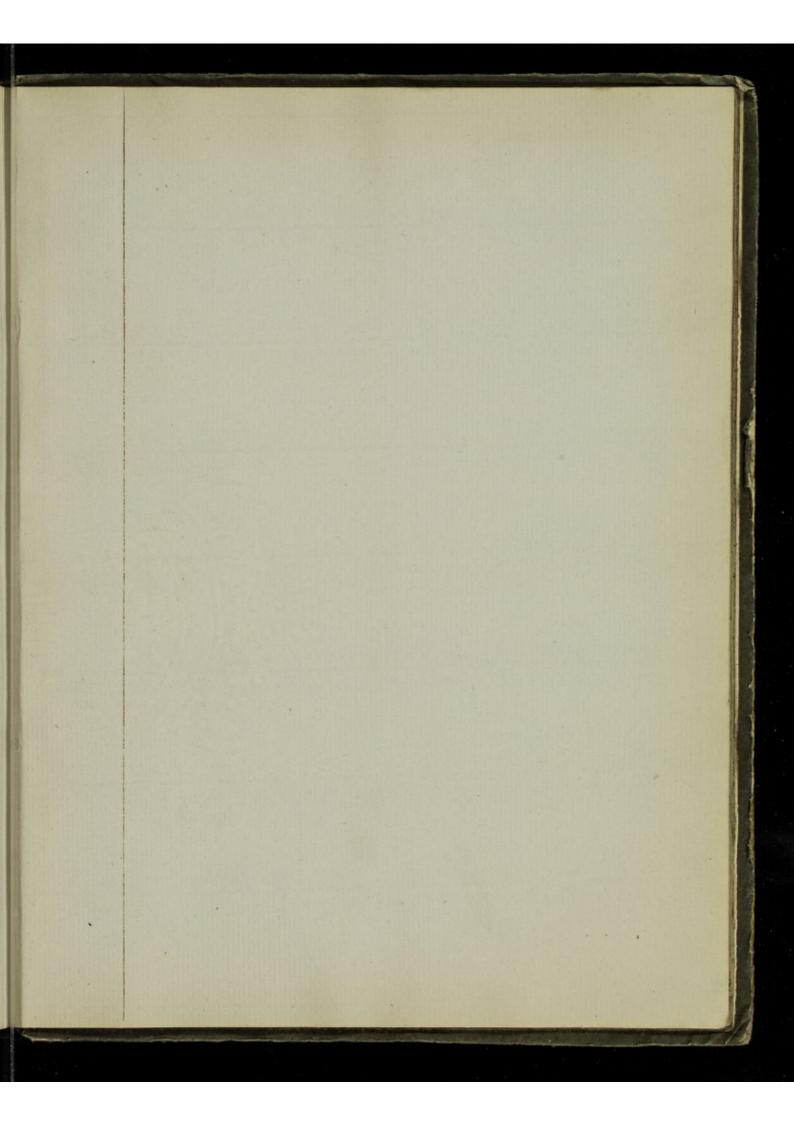


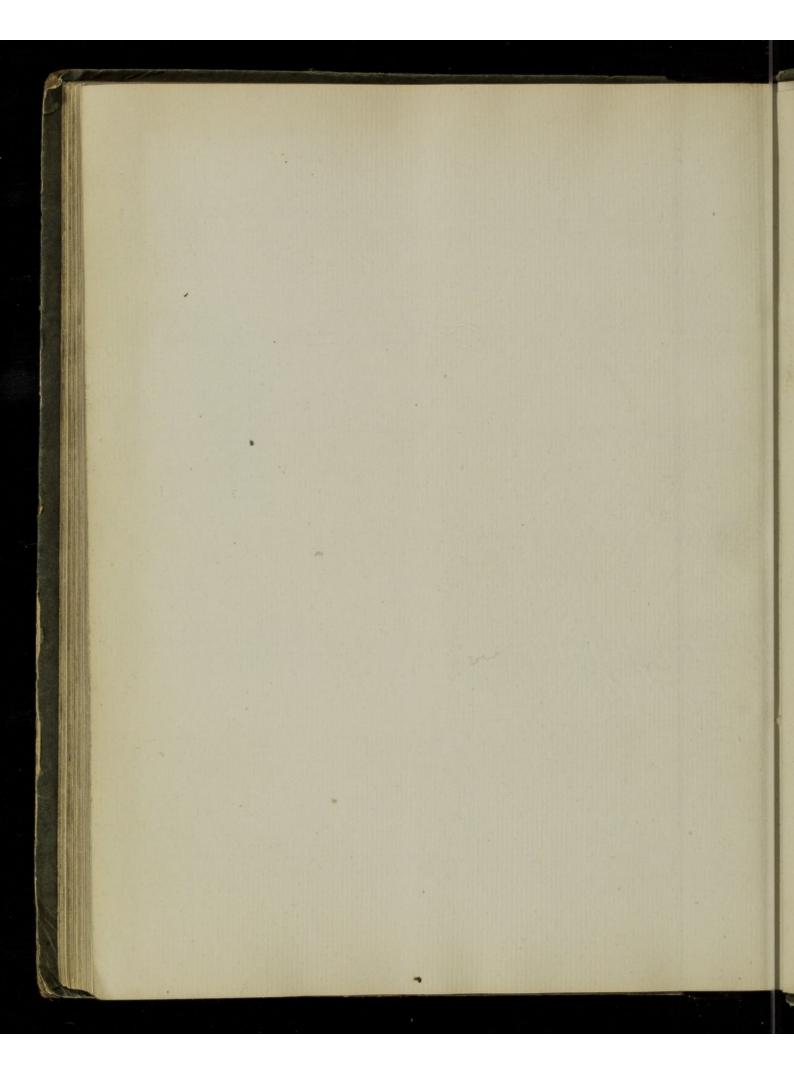


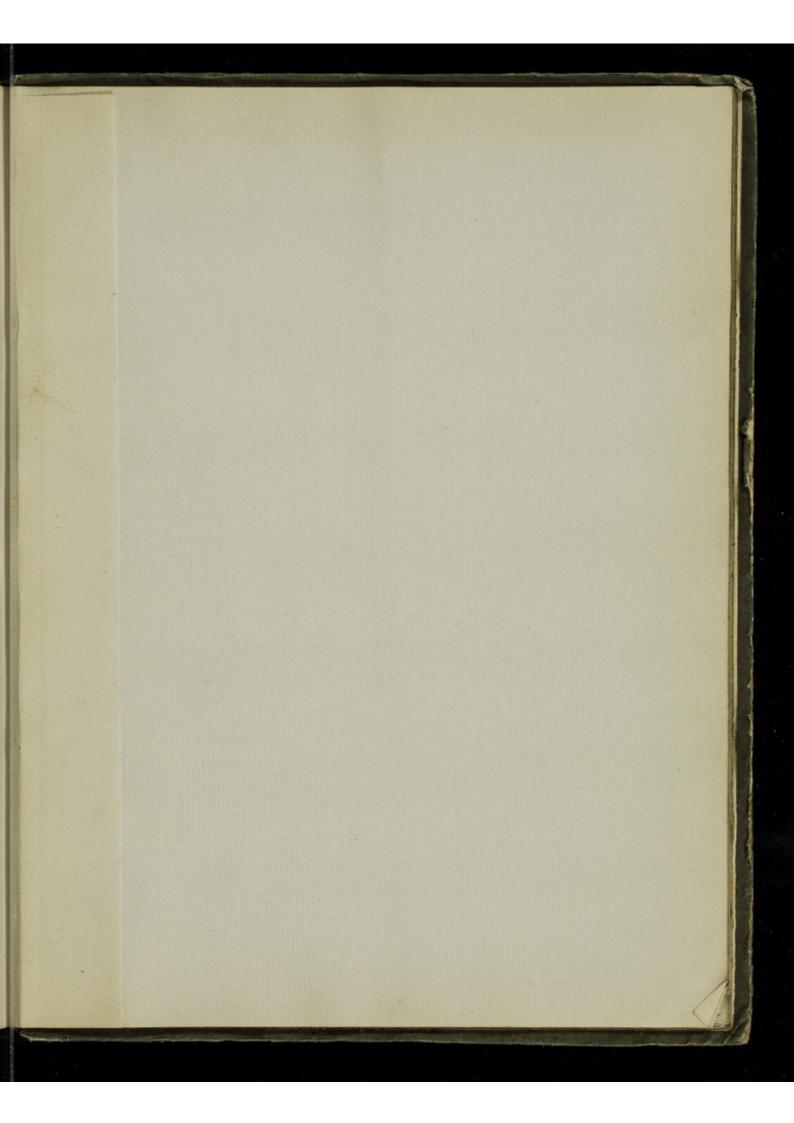


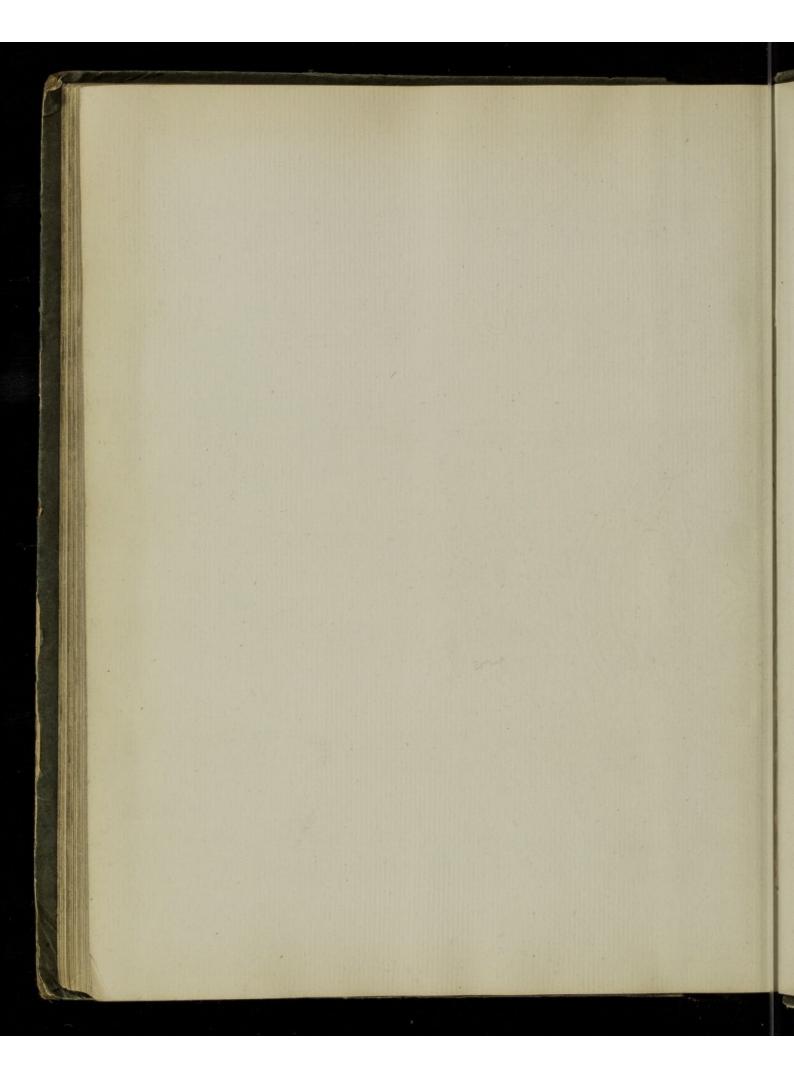


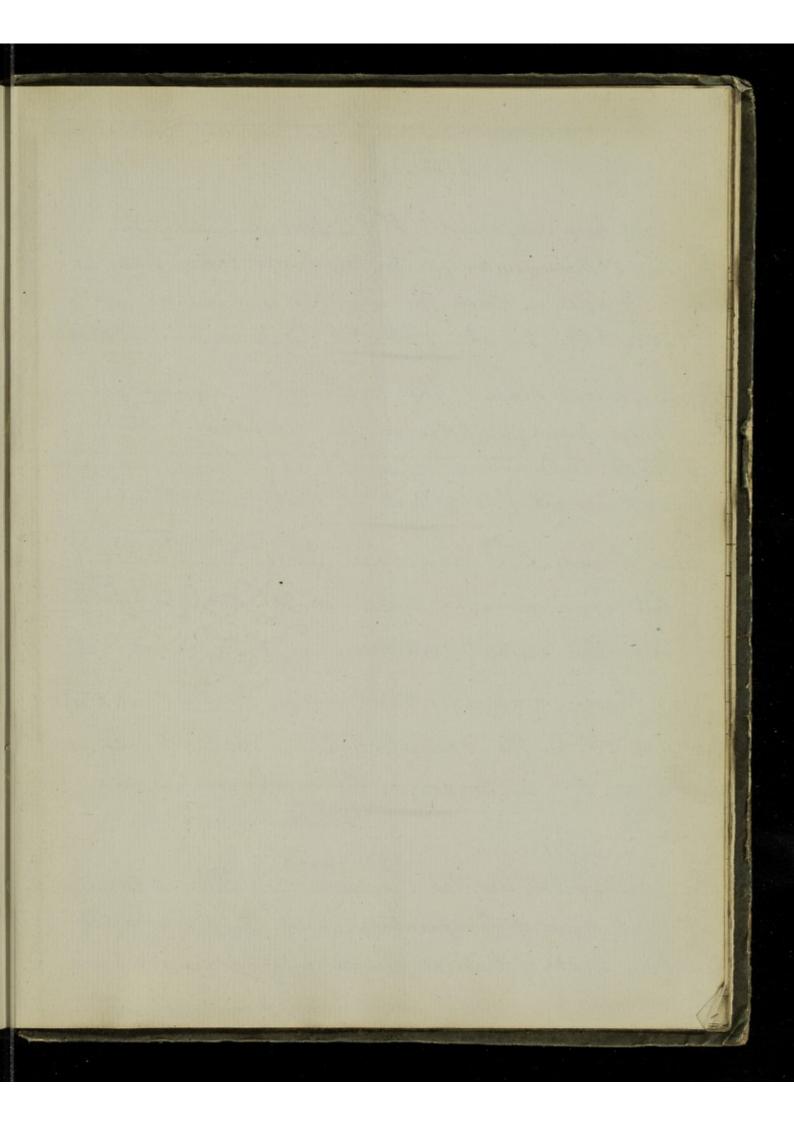












I have here subjoined. It a General State of the weather & Thermometer in the west Indies, taken from a daily Register, on which the remarks were made at 6° Clock AM- 9- 12-3 PM- 4 6° Clock in the Evening-

2- a General Plate of the weather & during a Voyage from Grenader in the West Indies to the bitish Channel, as daily observed (Then circumstances would permit) at 9° Clock A.M. 12- and 6° Clock P.M.

hints some remarks made on the same subject during the present summer. by which, amongst other things it appears that when the Thermometer was at 36° in the Channel during a Fog — it was as high as 07° in London — the month following —

The analogy between the consequences of this suddenly encreased degree of Temperature, and the permanent excepive heat of tropical Climates, appears striking; I if pursued, might tend to useful investigation.

General State of the Weather and Thermometer during part of the years 1805 - 6. 7 and 1800. exhibiting Monthly Abstracts of the Sich in Garrion Hospital Grenada

				/		-																	
	1805	We	athu	er	Remath	The	Thermometer abstract of Siche								Diseases								
		ny fair	Litrain	now rain		Rig	hert	low hines	مام الم	1 thengh	in the	Smile	at	Larges	0	ining	er	(Compi.	17	real.	sterant	THE REAL PROPERTY.	
	Month.	11ºoft	M. Cig	no he		209.	205	Des	Der	menar of the	Horket	finise .	301	Bires	Sie	Remai	-fee	Bown	ulu	Jun	Com		
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	June	12	15		Theu days heavy raine Theres 73					657													
	July	5	10		Thursday VLightening		07	79	82	707	30	115	153	92	8	53	17	13	12	8	. 3		
	August	9	6	16	Chundes V. Lightening	02	87	77	75	679	13	06	139	95	11	33	1/4	7	7	3	. 2		
	Sept:				Thunder & Lightening	81	87-1	70	77	079	33	135	160	97	13	37	14	27	14	1	- /		
	bet:	5	17	9.	Thuron	01	06	70	02	060	57	132	189	113	8	60	//	29	23	1	4	-	
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The second second	Sec?	12	12	7		00	85	76	79	824	62	68	130	65	10	50	9	3	30	3	3		

General Remarks

1. The Thermometer used was Fahrersheit's - placed in the Shade in a large open Room -

2. Circumstances frequently interrupted, regular remarks: Then the humbers are incomplete therefore, no observation was made.

3. Greatest height of the Thermometer exposed to the Sun, at any time observed, has been 136 Degreen-

I The Thermometer at the Grand Etang, - a situation in the interior of the Island about 1115 Feet above the level of the Sea usually falls g Degree lower than in Saint Storger.

5. The prevailing Biscases - remittent Fiver - Diarrhose - Dry belly ashe I Whered Legs - especially amongst the Black Soldiers -

1/4 /4																. 0											
				Remarks							ul	of (Su	h					(2	i	e	au	ies			1
Months	Motdays fair	nº Light rain	A: heavy rain						Bacreel Hungh	Remained	line admitted	Total	Discharges	Buch	Remaining	Fever	Sylentery	Mucr	Veneral	Ordinania	Convalerant	Brokey	Thistopry	Hepatites			
Jan.									843														To the last				
Fieb:	12	8	9						870														1		The last		
mar:	12	8	//		80	85	72	79	840	31	46	17	40	2	35	2	1	22	2		5	3					
Spril	12	10	0		80	86	70	79	879	35	36	71	41	4	26	5	1	15			3	1		1			
May	16	P	7		81	27	78	79	000	26	49	9/5	43	2	30	5	4	//	1	2	5	1		1			
June	6	5	19		Po	85	78	75	850	30	42	72	35	5	33	7	6	14	1	2	3						
July	2	18	//	Thunder	81	85	70	80	849	33	43	76	46	4	26	2	3.	13	,	3	5						1
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H. implies quatest deque of moisture indicated by the instrument

General state of the Weather & during a Voyage from Grenada to the British Channel Weather Thermomoter Remarks De, De, APRIL Sailed from Grenada 1 82 83 . Calm 56 21 Calm 22 05 56 23 Calm 03 24 Rain 85 56 25 Rain 05 56 26 Rain 05 56 anchowie at Tortola 27 Rain 04 28 Rain 05 gale 29 01 30 Gale Lightening MAY llear 81 77 61 Rain in the Evening 6 Clear 77 70 59 failed from Tortole Calm 3 " 81 " 50 37 865 Heavy rain at hight and lightening -4 Calm 80 " 80 77 59 Light air Rain in the Evening Breeze 81 " 60 " 64-29 22 Rain afternoon Breeze 76 04 77 62 60 63-37 22-38 76 02 . 60 39 Calm 63-29 Brish Gale 23-15 Breeze 76 73 73 60 62 63-44 23- 33 €186 Cloudy Brish Gale Breeze 75 95 74 62 61 10 64-27 24-37 Gale in night E6.8 Breeze 77 76 61 63 58 63-25 26-2 Strong wind Vicin Breeze 73 74 64 68 56€ 60-04 " Lightening. Thunder 13 Hazy 72 77 72 76 76 W Light 9 th rain, equally 60-38 28-50 70 . . 77 . llazy 568 59-30 . Thunder, squalle, cain fale, heavy rain thunder & lighterin Mazz 57-30 30-40

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1	68		eather Thermometer					Wind	o min	a min	Remarks					
		Fog	50	50	37	90	00	SW	6	49-1	Breeze - Loundings					
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The second	19	Fog	57	56	6	70	4.	W	,	"						

"On the 14 July - The Thermometer under the northern entrance of the Royal exchange at hoow was 870 on the 15th in the Shade, in the open air opposite I + Samei Park (without any reflection of heat __ at 3. Clock PM 80 1/2 and the day following at 940."

We have accounts communicating numerous distrefing consequences of the late extraordinary heat of the Weather. A man at looky, in Lincolnshire, on Wednesday, while hoving Thistier, was so overcome by the Heat, that he died in the Field — a woman employed in making hay in a feeld adjoining the Town of Huntingdow, complained of being ill from the heat. I died before she could get home. A woman at Bellesdow, in Leicestershire, on wednesday, died of exeptive heat. The statement from which the above is taken (10. "July) enumerates several instances of the Deaths of Horses

at this period, from the same Cause -July 13th At Mayer in Middlesex the Thermometer was in the shade at 98 1/2 degrees - In Kent at 98. in various parts of London 100. and exposed to the Sun at its greatest height, at 167_" " Dr. Pole, of Bath states, on the 12. July the heat at of A. M: - 75. at the meridian 91° at 9 in the Evening 77. July 25 Two privates of the 2" Regime are stated to have died on their march from Spowich to Harwich for embarkation, owing to the heat of the Weather. I a third, it is added, died on the Beach, on reaching Harwit' -

