A practical account of the epidemic cholera: and of the treatment requisite in the various modifications of that disease.

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Publication/Creation

London: Parbury, 1833.

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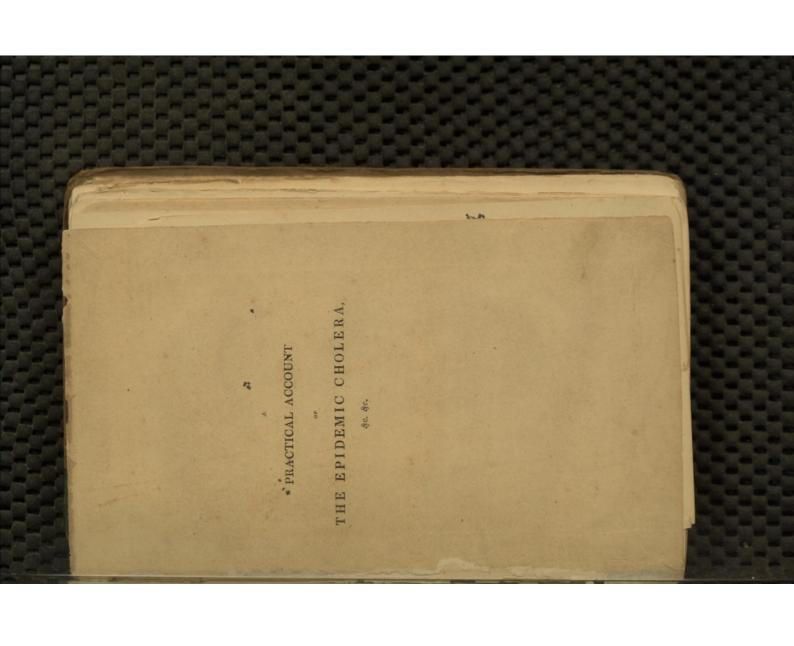
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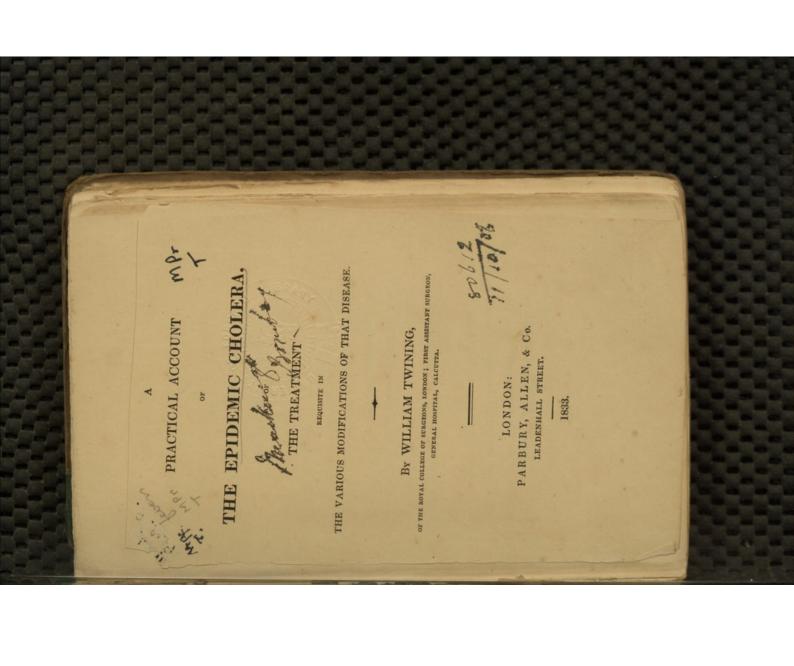


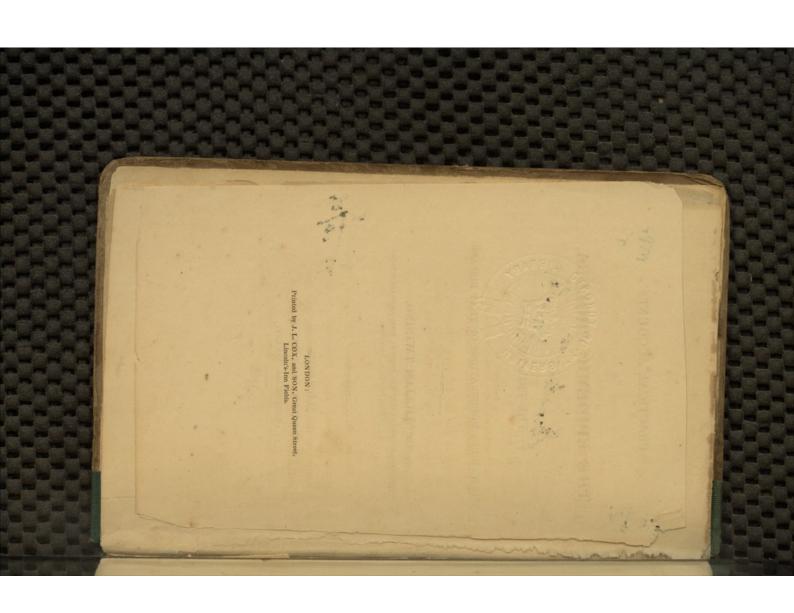


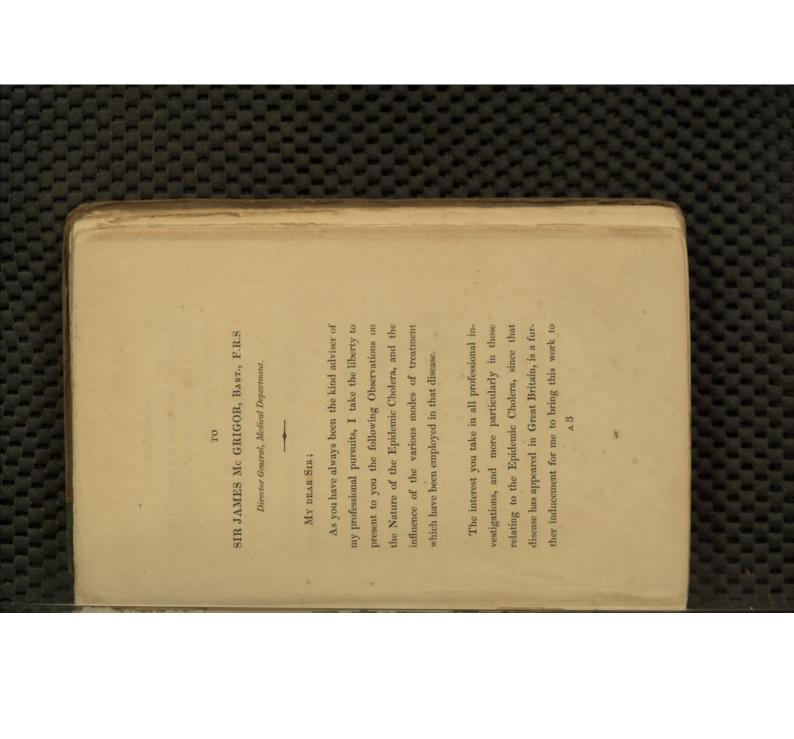


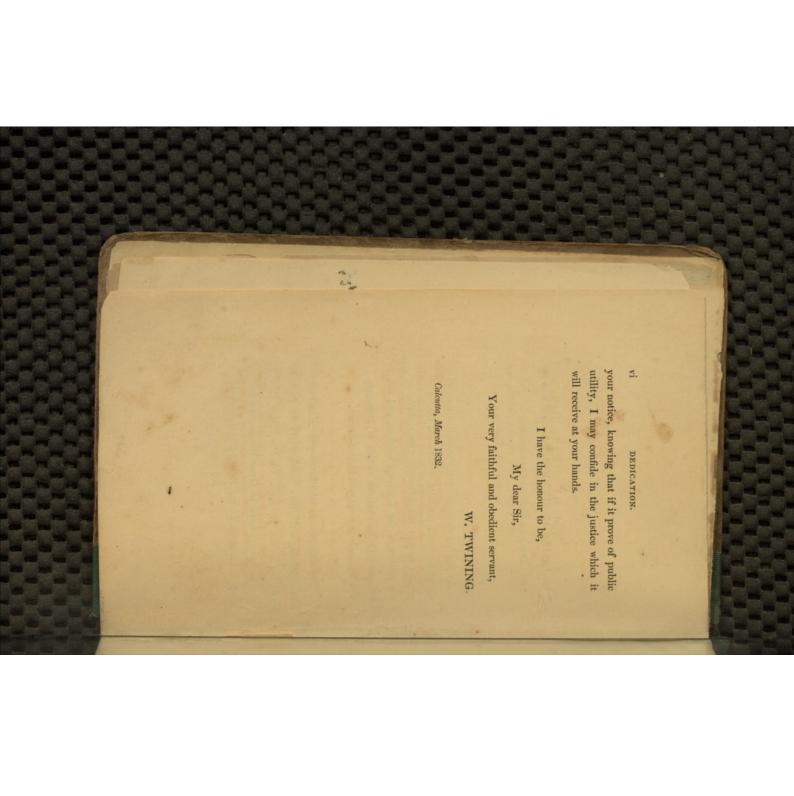


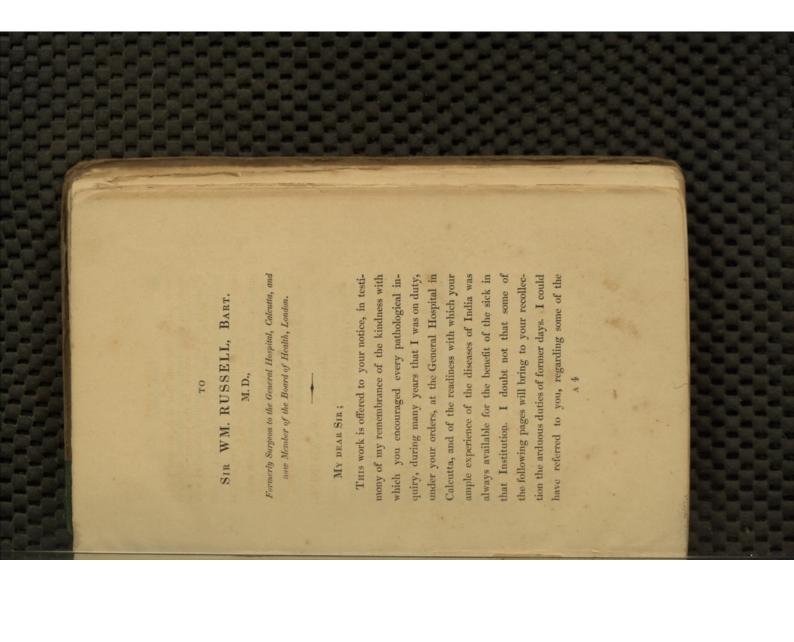


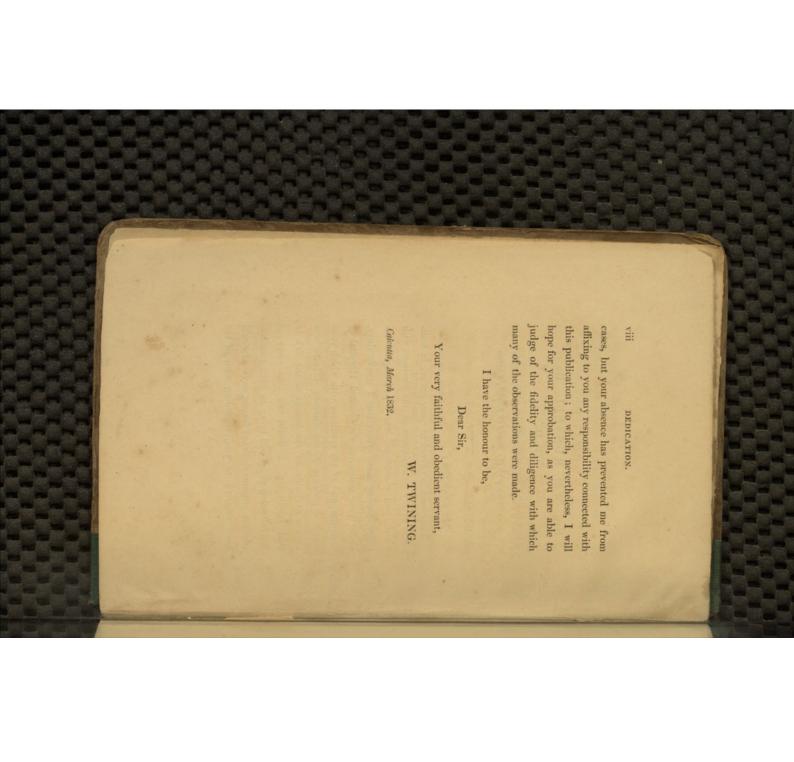


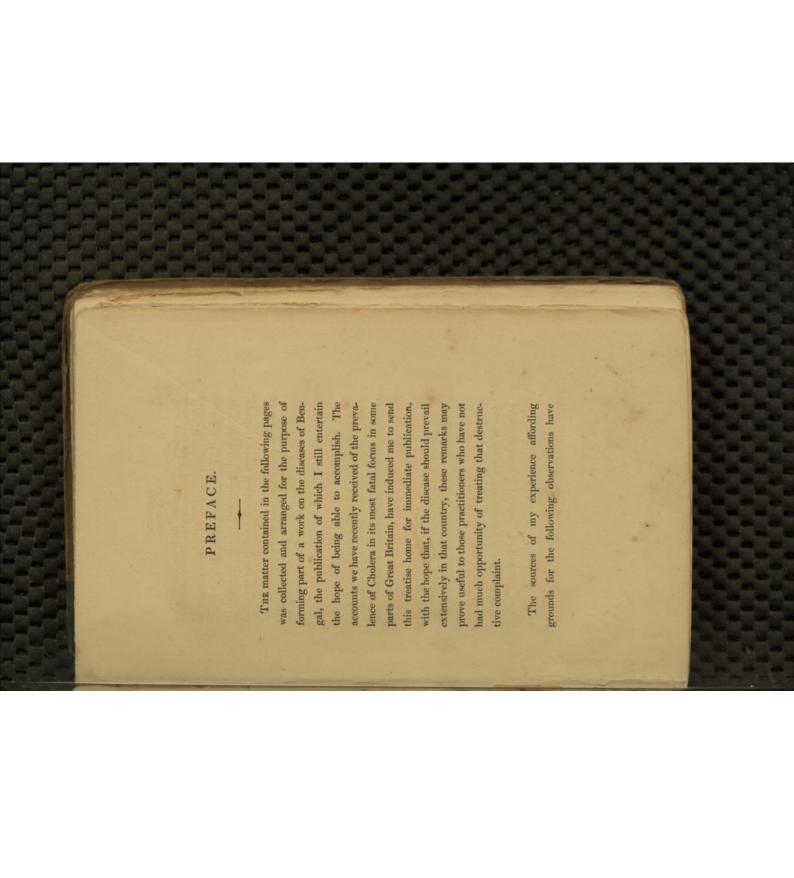




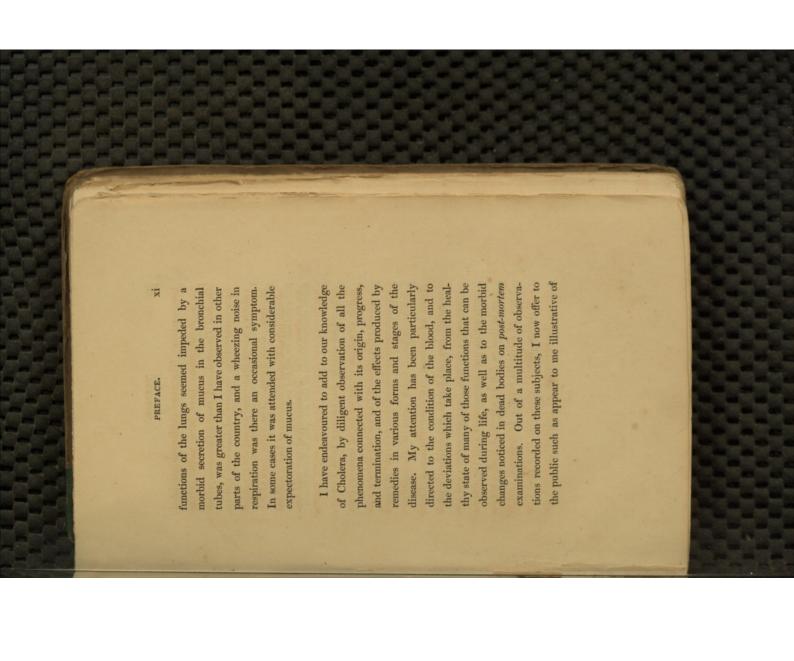


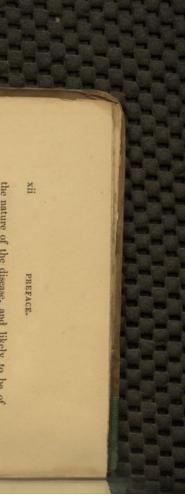






in some of its forms. The early part of my General Hospital, and among the cases which rious investigations have been made in the been various. The more deliberate and laboand in situations where we might suppose, from son in the vicinity of the great snowy mounme to observe the disease during the cold seaservice in the Upper Provinces of India, enabled vicinity; where the disease almost always exists have occurred in the city of Calcutta and its vinces, the proportion of instances in which the a considerable similarity of climate during wintains which divide this country from Tartary, that during the cold weather in the Upper Prominating in the same manner that the disease symptoms, following the same course, and tersporadic cases of Cholera, exhibiting the same parts of Europe. In those districts I found similar to those which occur in the northern phere of Bengal Proper. It appeared to me, does in the low flat country and humid atmoster, that modifications of cholera would be found

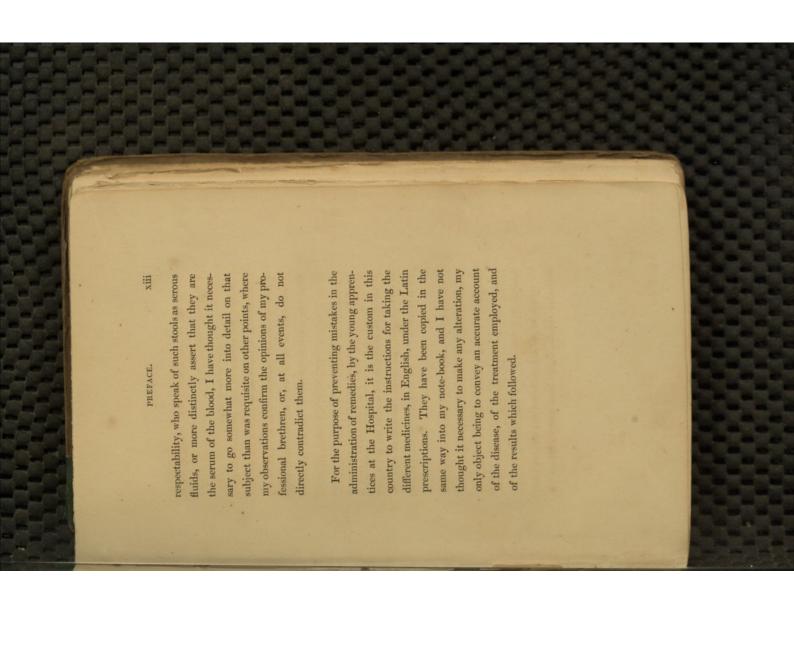




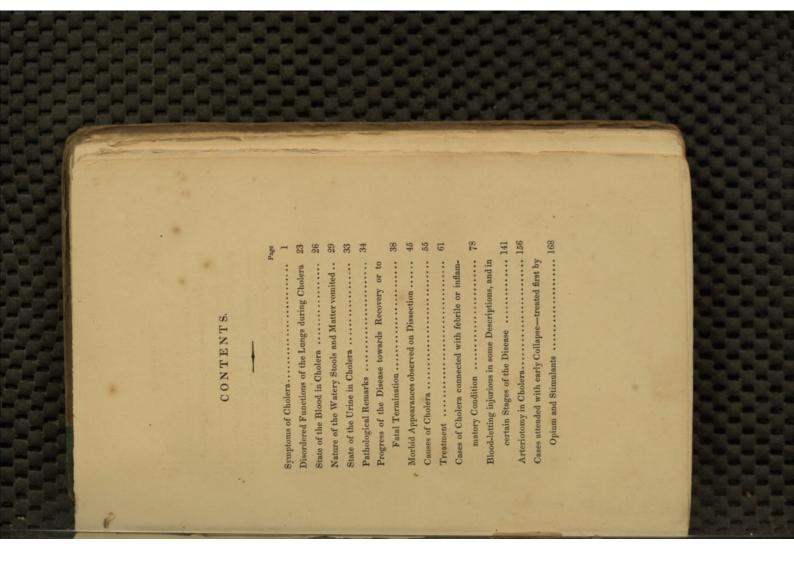
the nature of the disease, and likely to be of practical utility.

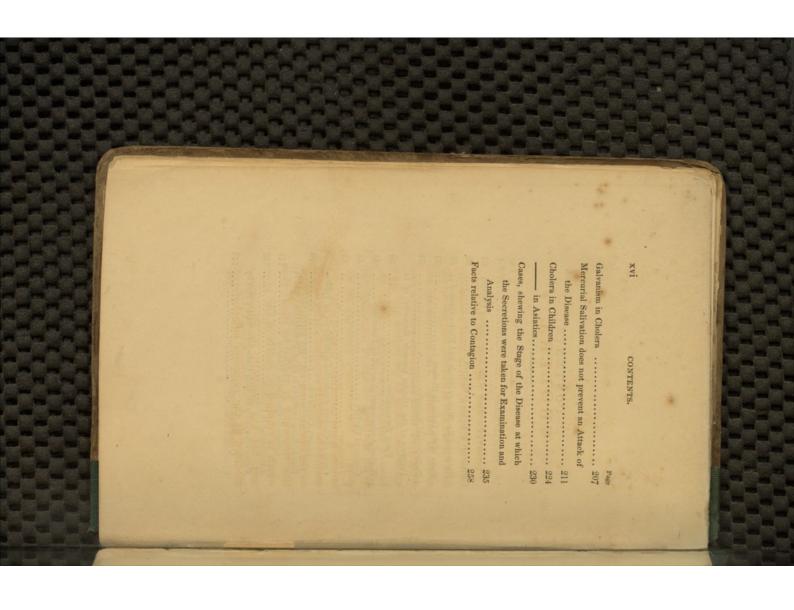
I have not mentioned any peculiar odour, as characteristic of Cholera, because I am not able to distinguish any particular smell, either of the perspiration or of the evacuations, that I could deem characteristic of the disease, and not found in some others. However, my occupations in the pursuit of morbid anatomy may make my testimony on this head less conclusive; and I should be unwilling to enter into any discussion on this subject, with those who may be of a different opinion.

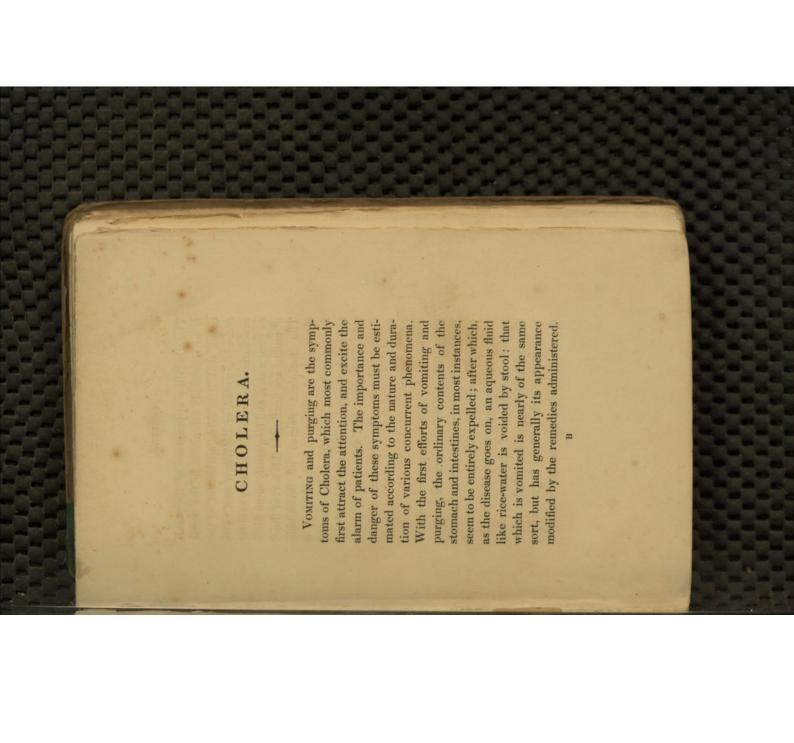
Perhaps my readers may consider that undue attention has been bestowed on an inquiry into the nature of the peculiar alvine evacuations, usually described as resembling rice-water, and denominated the true Cholera stools; but as the results of all my examinations and analyses authorize me to differ from many authors of











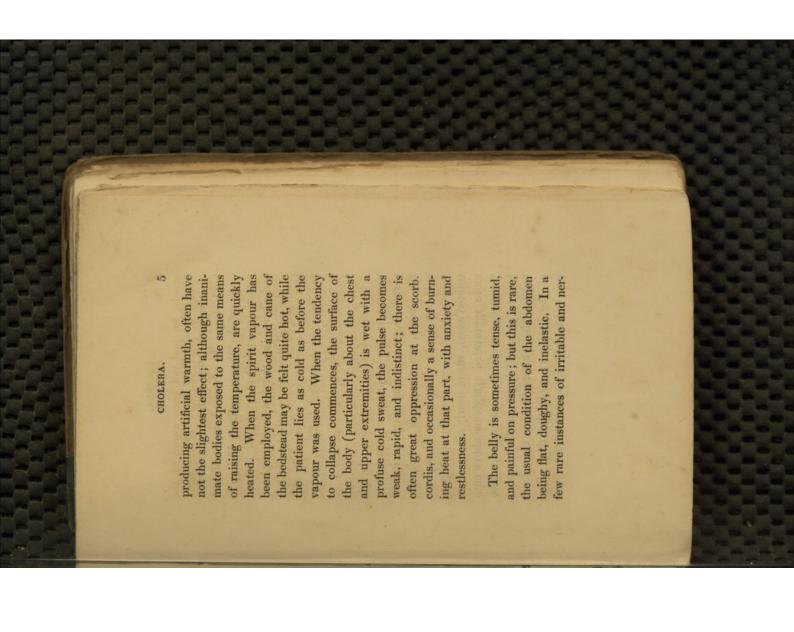
Besides the above symptoms, we find in Cholera, sudden and extreme prostration of strength; the countenance is either pale or livid; the eyes are much sunk in their sockets, as if from the sudden absorption of the surrounding fat, and shrinking of the cellular structure of the orbit. There is generally a degree of livid venous congestion of the

scleroticæ and conjunctivæ, though sometimes a florid arterial suffusion of the eyes is observed. The sunk eyes, shrunk features, and ghastly expression of countenance, are so remarkable and peculiar, as to be immediately recognised by those The medical man whose illness is mentioned in a subsequent part of this chapter, had no suspicion of his disease being Cholera, till about noon of the day on which he died, when he desired his glass, and the instant it was brought, he I did not even suspect before: there can be but little hope of my recovery." He who have once seen a cholera patient. servant to bring him a small lookingsaid, "I see I have got Cholera," which had suffered no spasms, and from there having been a slight bilious tinge in the

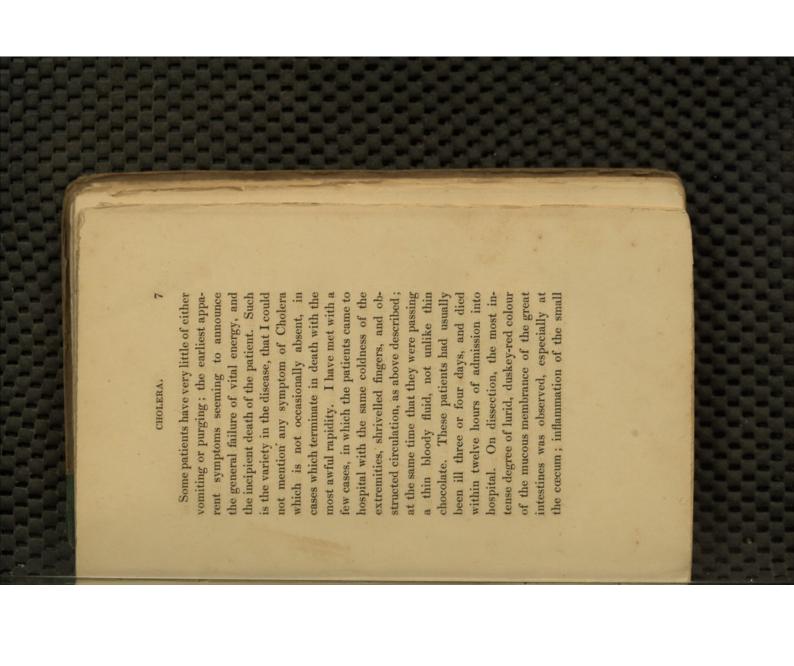
^{*} This gentleman had only seen a few well-marked cases of Cholera in the Hospital, about a month before.

stage, and thus lost his life.

hot bath, hot vapour, or other means of coldest season of the year; in fact, the able during the hot weather as at the of the calorific function is as remarkand calls for cold drink. The cessation the blankets, tosses about in anxiety, cholera patient when coldest throws off more bed-clothes: on the contrary, the which the patient earnestly demands symptoms of Cholera, but I have never rigours, like the cold stage of ague, in known it attended with shivering or ness is sometimes coeval with the earliest fingers, takes place. This mortal coldtremities, and a shrivelled state of the cold and moist; coldness of the whole difficult, and imperfect; the tongue is shrill, and pectoral; respiration short, body, but more especially of the ex-In bad cases, the voice becomes feeble,



Spasms of the extremities, though present in the majority of cases to a certain degree, during some period of the disease, are sometimes entirely absent in patients where death takes place very suddenly; and even in some protracted cases, where nearly all the other more aggravated symptoms above enumerated precede the fatal event. The spasms generally begin in the toes and fingers, then, after affecting the calves of the legs very violently, they often proceed to the thighs and belly.



sinking very soon, and the warmth of great. The pulse, though rapid, not and downwards is frequently not very quantity of fluid voided both upwards efforts to vomit are violent, but the causing the patient to cry aloud: the are then generally violent and painful, affection more or less distinct; spasms majority of cases attended by a febrile characters of the disease are in the cession; and to be combined in different severity, as well as in the order of sucways. In some seasons, the ordinary served the above symptoms to vary in no distinct history could be obtained. cases of several days duration, of which tion was only observed in neglected omentum and mesentery. This condi-With almost every year I have ob-

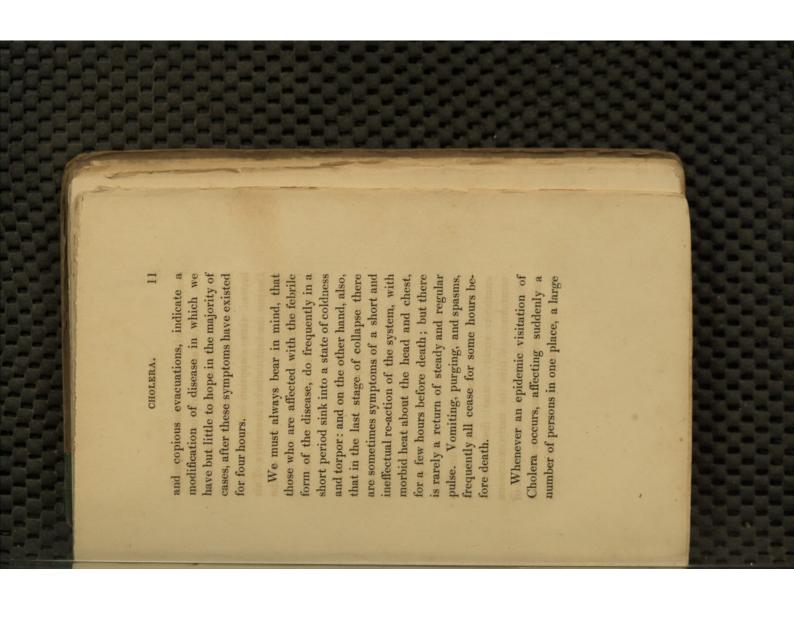
extremities not suddenly ceasing. In such cases the vascular congestion of

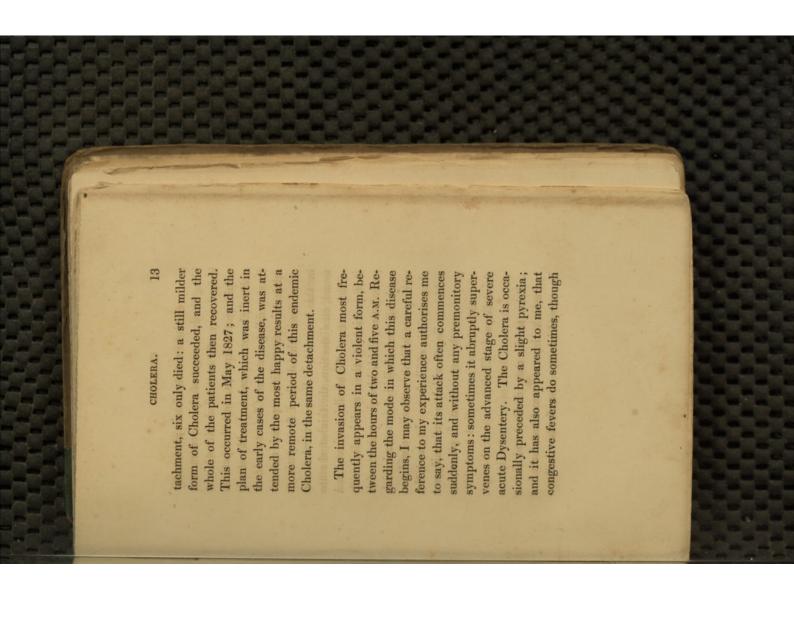
the eyes is commonly of a florid arterial

character; the tongue furred, often brownish, and usually warm; sometimes it is dry and very slightly furred. During other seasons, the greater number of copious and watery, the pulse sinks rapidly, and becomes indistinct; the voice is feeble, shrill, and pectoral, or entirely inaudible; congestion of the eyes of lurid venous character, and a severe cases become cold at an early place, as if from stagnation of venous blood: spasms, when present, are then period, the evacuations mostly very lurid colour of the face and neck take attended with less pain; and torpor, insensibility, and death, soon close the scene. The affection of the head, in remote stages of the disease, sometimes resembles coma; and in a few rare cases transient delirium exists, but generally ably clear and undisturbed during the whole course of Cholera. In other years we find the intellectual faculties remarkmany cases are of a mixed character,

beginning with febrile tendency; and a few of them are found vomiting much green bilious watery fluid at first; but rapidly sinking into the state of collapse, with cessation of pulse, cold tongue, and shrivelled extremities. This appears to me a common form of the disease in the last two years, since Cholera has become much less frequent.

The commencement of the disease with febrile symptoms; and their continuance, while the constitution shews signs of sensibility, action, and power; the warmth and circulation remaining, and the evacuations though frequent never having been very profuse, indicate a tractable state of disease, in which the best results may be hoped from a cautious, steady, and discriminating treatment. While the early accession of torpor, which defies the effect of medicine, with cold and shrivelled extremities, cessation of pulse, cold tongue,

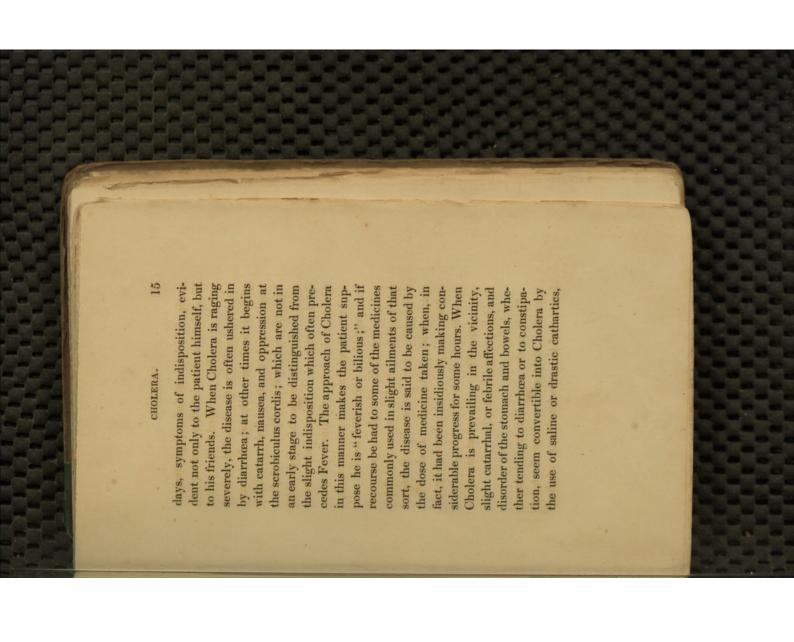


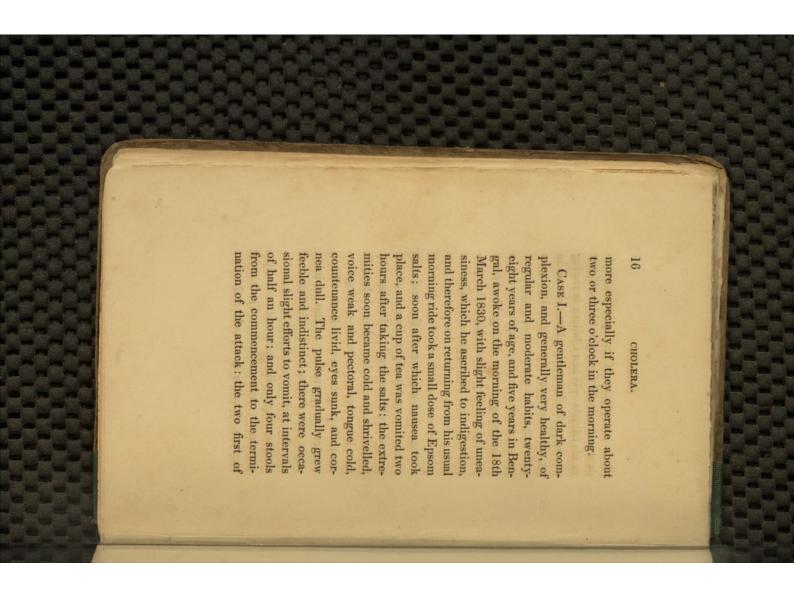


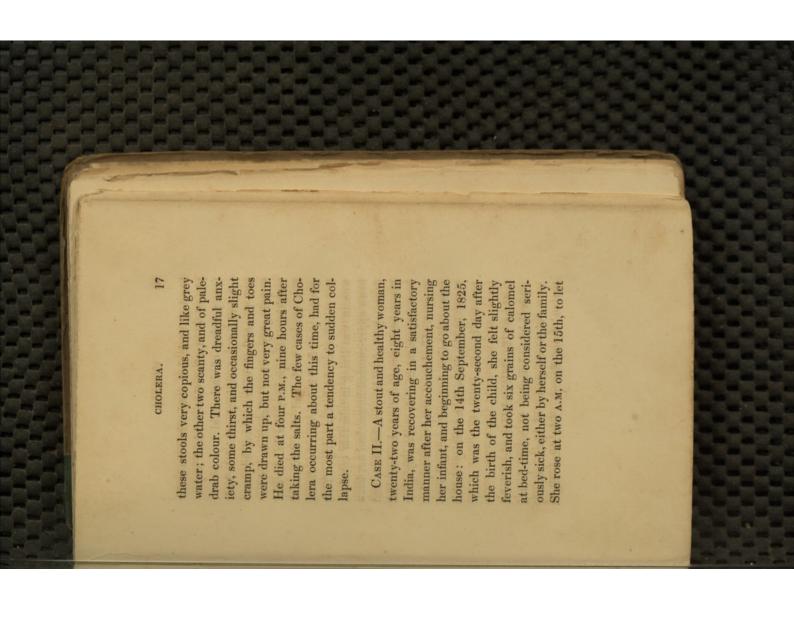
Prior to the more distinct and alarming attack, there are sometimes for a few hours, and in some cases for two or three

the collapse in Cholera.

of remittent fever, somewhat resembles







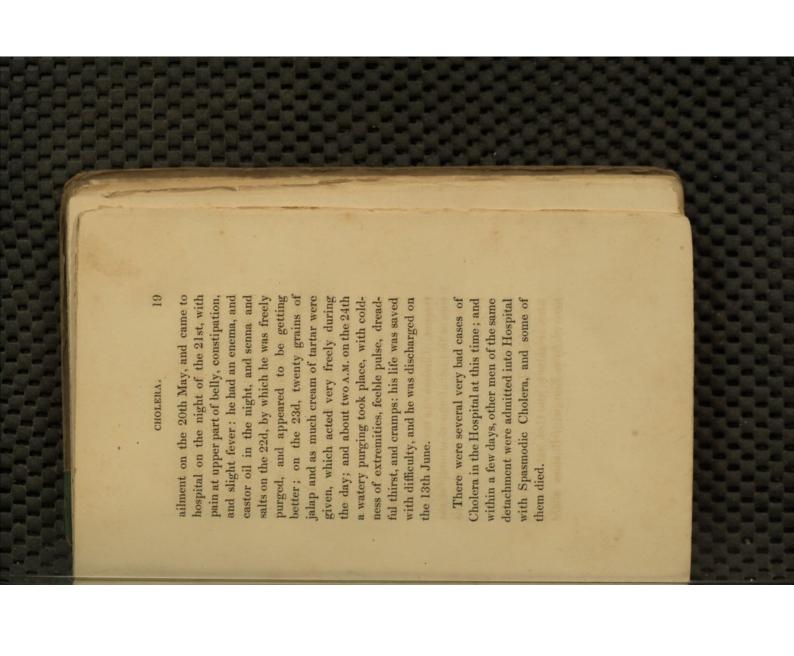
Case III.—Michael Hammon, H. M. 13th Light Infantry, a stout young man, eighteen years of age, recently arrived from Europe, felt some slight

person's house.

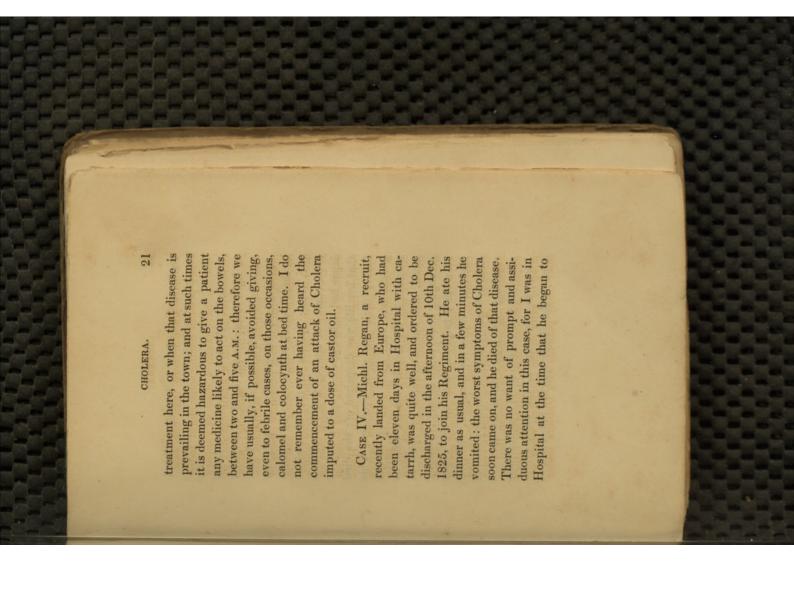
was at this time frequent among the na-

been imprudent in diet, or in any other respect. Cholera of a severe description

tives, in the immediate vicinity of this

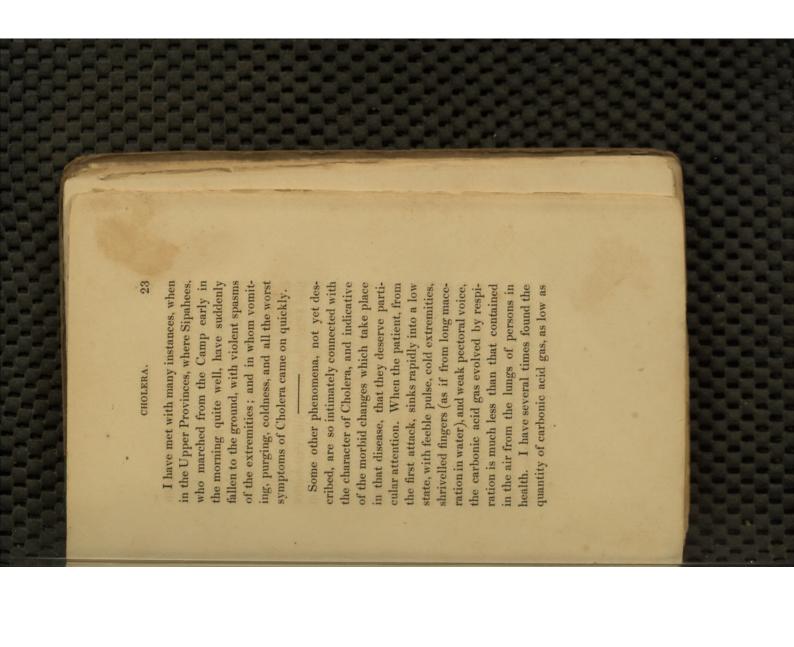


have many patients with Cholera under jalap or salts in the Hospital, when we usually are cautious in ordering either has so far confirmed this opinion, that we Cholera. The experience of many years pyrexia; and who, if left without active sons who had at the time only slight frequently brought on the disease in peris prevailing, drastic purgatives, partipurgatives, would not then have had cularly senna and salts, or jalap, have ever, I am of opinion, that when Cholera before the medicine was taken. Howinsidious attack of Cholera was going on It is evident, in most such cases, that an disease proved fatal within twelve hours. which, distinct Cholera symptoms apginger, early in the morning; after and magnesia, with a small quantity of where persons feeling some slight indisthe medicine, by ten o'clock; and the peared with the first purgative effects of position, have taken a dose of rhubarb I have known more than one case,



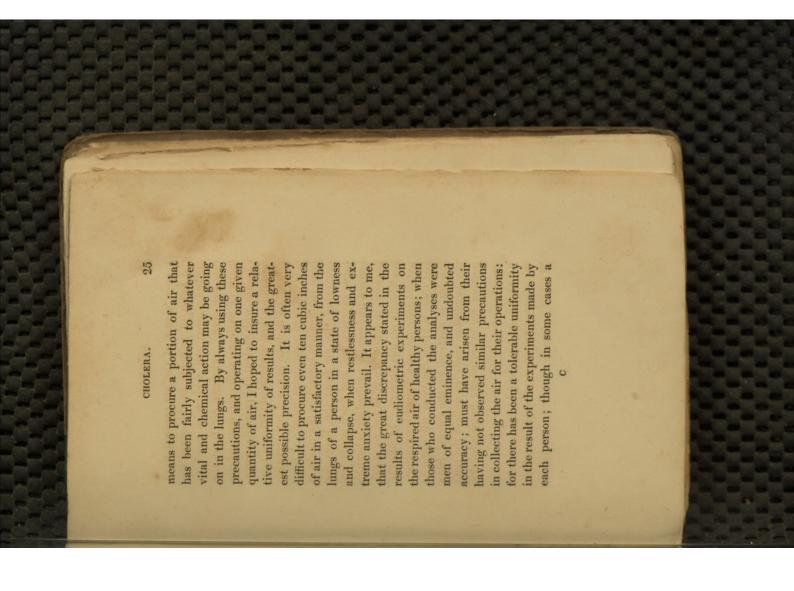
vomit, and saw him in less than fifteen minutes afterwards.

toms of the disease quickly followed. after the first sensation of sickness, she began to vomit, and all the worst sympreaching too high: in a few minutes sick, in consequence, as she supposed, of shelves. When so occupied, she felt on a chair to place those on the upper arranging books in the library; standing usual, and was afterwards occupied in moment of the attack: ate her tiffin as person had been quite well up to the before dark the same evening. that her life was despaired of: she died lapse had taken place to such a degree soon came on, and by five o'clock colat three o'clock P.M., on the 2d Septemwho had been fifteen months in India, of light complexion, aged twenty-six, ber, 1825: spasms of the extremities was attacked with vomiting and purging, Case V .- A stout and healthy lady, This



the lungs of patients in the state deand then holding the nose till some of confidently on this subject. I make the acid gas, and sometimes more. I have tained 3.5 to four per cent. of carbonic two per cent.: whereas air from the scribed above; and seldom so much as portion for experiment; hoping by this the apparatus ready to collect the next the air is expired by the mouth, have patient take rather a forced inspiration; persons, in order to enable me to speak merous trials on the expired air of healthy these experiments, and have made nubeen particularly careful in the mode of free pulse, and warmth of surface; con-Cholera, with violent and painful spasms, lungs of patients suffering from febrile 1.5 per cent.* of the air expired from procuring the air from the lungs for

^{*} In these cases, I have reason to believe that the pulmonary vapour, or exhalation, is much diminished.



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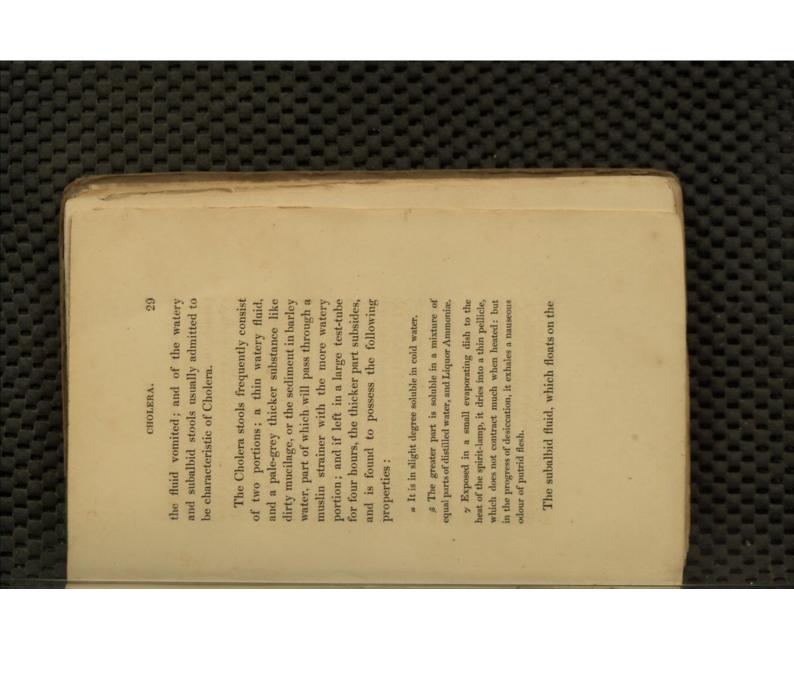
difference of nearly one-half, from the conclusions of others.

stances is of a pale, dusky green colour. friable coagulum, which in a few indiscoloured serum, it forms a firm, dry, colour: and when heat is applied to this exhibits no peculiar character except its a small quantity of reddish serum, which cases, the dark-coloured blood separates florid than when first drawn. In other till it is cold, becomes somewhat more the surface of the cruor, after standing mass, without separating any serum; and blood usually coagulates into an uniform veins of the fore-arm are emptied. This very often entirely ceases as soon as the slow and unsteady stream; and the flow and tarry, trickling down the arm in a collapse, while torpor is impending; we man, who is in the state of lowness and When Cholera is attended with febrile find the blood is generally thick, black, When we can succeed in bleeding a symptoms, the blood generally separates be detailed. I acknowledge having two into serum and crassamentum, nearly as in healthy subjects; though the quantity of serum varies considerably, and sometimes the surface of the cruor is remarkably florid; not unfrequently it exhibits the buffy coat, indicative of local inflammation; several examples of which will into a cold and torpid state after the ance has been so rare, as not to have allowed sufficient opportunities of ascerconnected with it, in such cases as have or three times seen the cruor quite florid, and still the patient has rapidly sunk V. S. and, although the blood flowed freely, the patients were lowered, and made worse by it: but this florid appeartaining satisfactorily the circumstances terminated fatally.

The subalbid fluid, usually denominated the true Cholera stool, or the conjec stool, has been repeatedly and care-

2 2

be attended to. The following results if the analysis of Cholera stools be deemand a-half: and have been able to dethrough the intestines in about two hours ations, I have by the smell recognised Cholera, attended with profuse evacuthat is vomited. In a case of febrile satisfactory examinations of the fluid has not been possible to make so many what remedies taken: consequently, it what fluids may have been drank, and and carefully watched, so as to ascertain been a considerable time in Hospital, except in cases where the patients have possible to speak with any confidence, ed by vomiting. Of the latter it is imfully analysed; as well as the fluid ejecthave been obtained, on examination of disease and nature of the ingesta should ed important, the circumstances of the less than three hours before. Therefore, cream of tartar, which had been drank tect in the stools, fluids acidulated with peppermint water, which had passed



pot, when the true Cholera stools are left to settle in the test-tubes, affords the following indications:

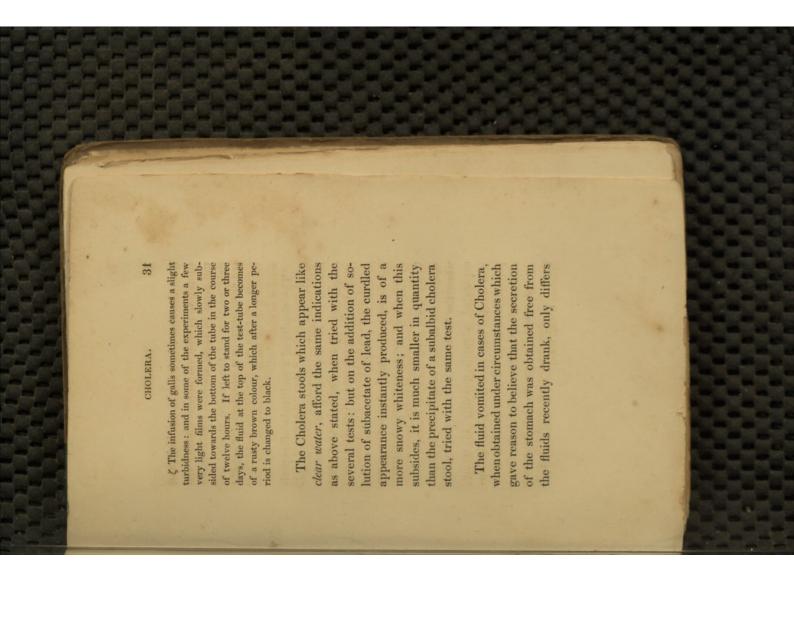
« With litmus, very seldom any effect is produced; and when any is observed, it is a slight reddening of the litmus paper, denoting the presence of an acid.

β Exposed to heat, it does not coagulate; even if the temperature be raised to the boiling point.

\(\gamma\) Treated with pure alcohol, it is not coagulated; but in a few rare cases, a very trivial cloudy opacity appears on the addition of the Alcohol.

 \eth Treated with a solution of oxymuriate of mercury in distilled water; sometimes a slight opaque cloud is formed, which in twelve hours subsides to the bottom of the test-tube: forming a minute sediment like mucilage, not amounting to $\frac{1}{3\pi}$ of the quantity of fluid tested.

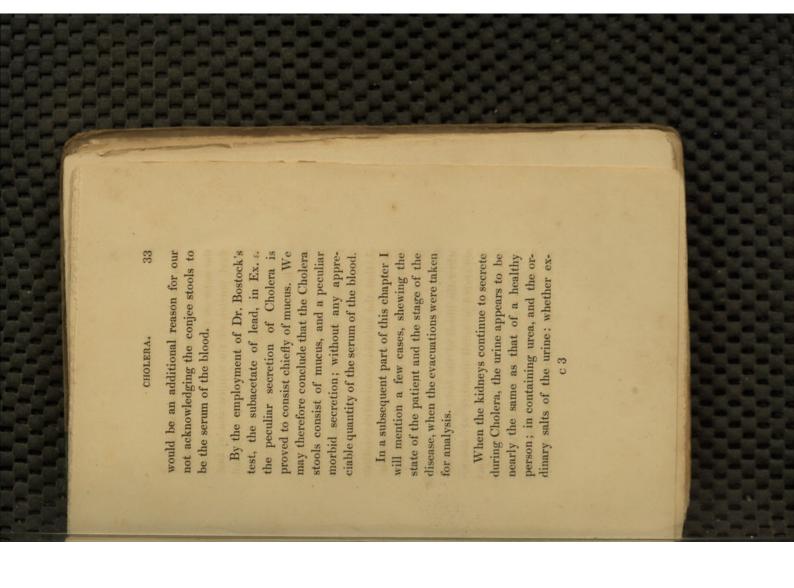
s Solution of subacetate of lead, when dropped into the fluid, even in the most minute quantity, instantly causes a curdled appearance, and a precipitate subsides in the course of an hour. This is in such remarkable quantity, that the sediment amounts to from one-third to one-eighth of the quantity of fluid tested.



have been stronger.

the indications of the presence of an acid

ations; while we know that uncombined cations of an acid in the Cholera evacusoda is generally found in serous fluids; conjee stools not coagulable by heat, plication of heat. The occasional indiwhich has coagulated firmly on the apseparated a small quantity of serum, when the blood of the same patient has thors have stated. I have found the of the serum of the blood, as some authe true Cholera stool, does not consist concerning the conclusions deducible β. that the subalbid evacuation, called from the above; it is evident from Ex. ments. Without entering into minutiæ, ments accord generally with these state-The results of a multitude of experi-



actly in the usual proportions, I have not been able to determine. In some cases, the small quantity of limpid urine first voided after a suppression of that secretion for several hours; appeared to contain a large quantity of animal matter, and the putrefactive changes were observed to take place in it very early.

In the assemblage of symptoms which constitute the early stage of a sudden invasion of Cholera; we observe evidence of the disorder, or total cessation of the functions of those organs, which are supplied with nerves from the great solar plexus. In those cases tending to early collapse and coldness, the liver and kidneys cease to secrete as usual; the digestive powers are arrested, the mucous membrane of the stomach and intestines has its secretions altered; and the disorder of the respiratory function, reminds us of the alliance in the healthy,

as well as diseased actions of the lungs,* with the digestive organs; through the

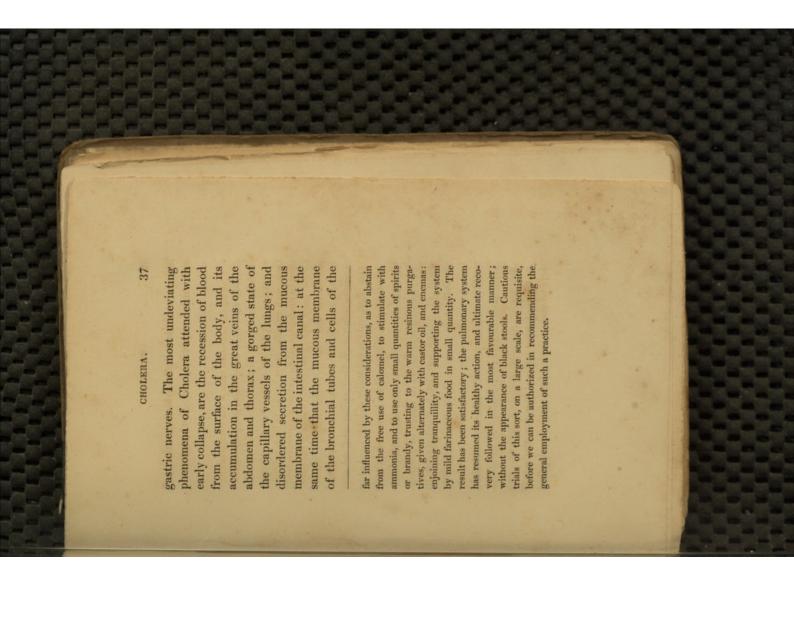
place in that disease; the decarbonising power of * Whoever undertakes an accurate pathological will find many reasons for concluding, that among the most important lesions of function which take the lungs is affected to a very great degree; more especially in those cases which are attended with febrile and inflammatory symptoms. In connection with this subject, we have occasion in post-mortem examinations sometimes to observe the contents of which appear during life in certain stages of Choinquiry, relative to the nature of Cholera, and has extensive opportunity to pursue his investigations; early collapse and coldness, and are void of any the excum and colon black, when the contents of the small intestines are of a lighter colour. These colour of the contents of the colon, and of the stools Is there not reason to conclude, that the black secretions in the excum and colon, may depend on an facts will induce us to inquire whether the black lera, be in all cases dependent on black cystic bile. effort of nature to compensate by a carbonaceous secretion, for the inefficient action of the lungs and skin? Many patients die of Cholera before such secretion is established.

Viewing

influence of the nervous system generally, and more especially of the pneumo-

Viewing the depressed state of the decarbonising power of the lungs, as an important pathological condition; we would be especially cautious in administering to a Cholera patient in a state of collapse, such remedies as are known to have a direct effect in diminishing the quantity of carbon evolved by the lungs during respiration: among the most powerful of which agents we find mercury; ardent spirits, in such quantity as to produce a stupifying, in contradistinction to their exhilarating and exciting effect, and the abstraction of blood.

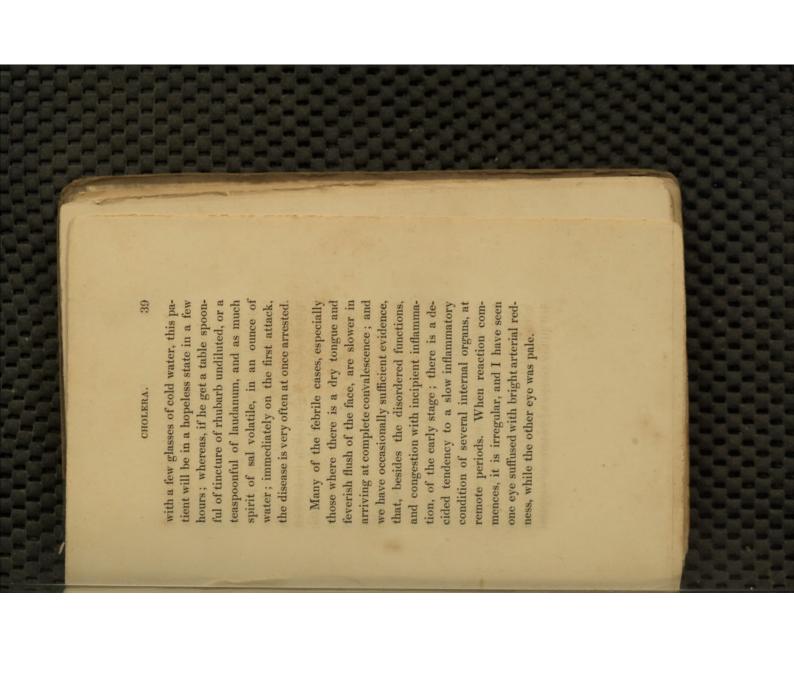
Facts coincide with the above observations; and I know of no case of pure congestive or blue Cholera, without febrile or inflammatory symptoms; in which mercury does much good: in such cases, stupifying quantities of spirituous stimulants, like stupifying doses of opium, decidedly hurry on the fatal event; and indiscreet use of the lancet has certainly in some cases shortened life. Although this view of the subject is here alluded to, in hopes that its legitimate application to practice may hereafter undergo the strictest examination and experimental investigation: I may state that I have, in very bad cases of the low form of Cholera, been so



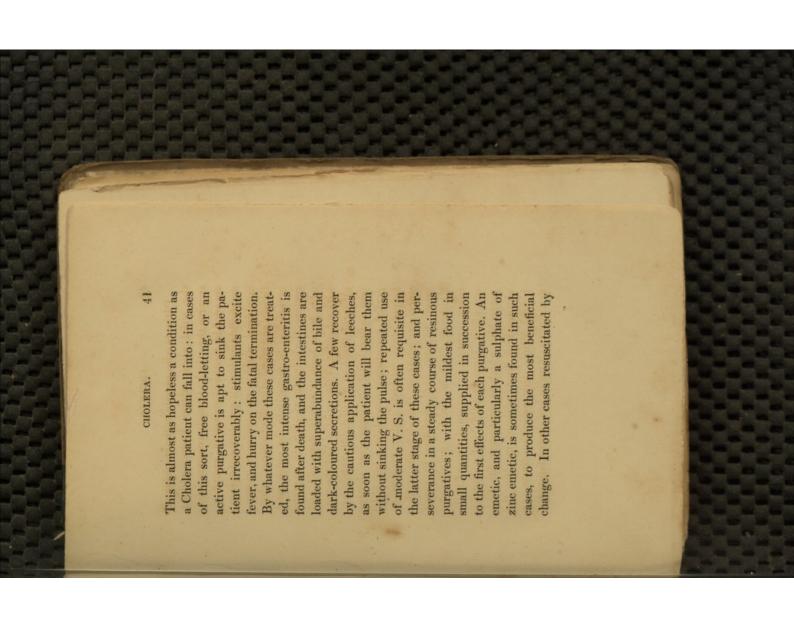
lungs, occasionally has its secretion affected in a similar manner, though to a slighter degree.

In cases not fatal, the progress of recovery is often almost as rapid as the accession of Cholera; and if the disease be promptly treated at the very onset, it is not uncommon to see a person well on the third day after the attack of the worst symptoms, which had commenced with coldness and collapse; and who, if left without remedies, would probably have died in six or eight hours. In these instances, recovery seems almost as sudden and complete, as in cases of suspension of animation from submersion in water.

We see a person suddenly attacked with vomiting, and purging of cholerastools, he quickly becomes cold and has a rapid feeble pulse: we know that if left to the course of nature, or supplied



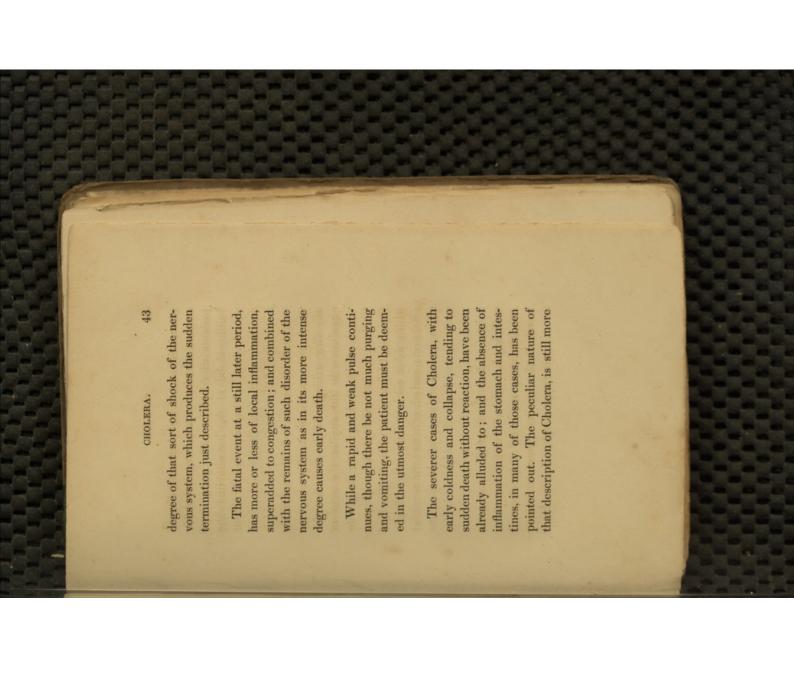
jority of those so excited, ultimately exout effort, large mouthfuls of yellowish every eight or ten minutes, almost withor spirits; to resuscitate the pulse, and attempt to sit up in bed causes faintness. head. While this condition lasts, an clothes and floor, without moving the green bile, which is spat over the bedwhatever fluid is drank; gulping up much nausea, and continue to vomit purging: while in this state they suffer torpid state, without either spasms or period, sometimes several days, in a halfpire, after lying a longer or shorter without pulse at the wrist. Yet the mawho have been a whole day cold and restore the warmth of skin, in persons tives; and some stimuli of spices, wine, combined with warm resinous purgaassafætida, and small quantities of opium, succeed by means of ammonia, camphor, survive the attack; though we sometimes the wrist above three hours, seldom Patients who remain without pulse at

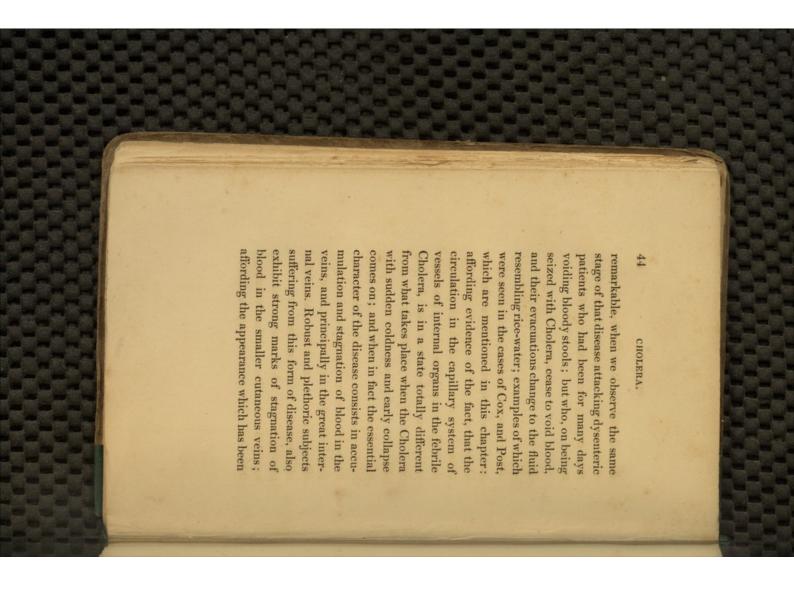


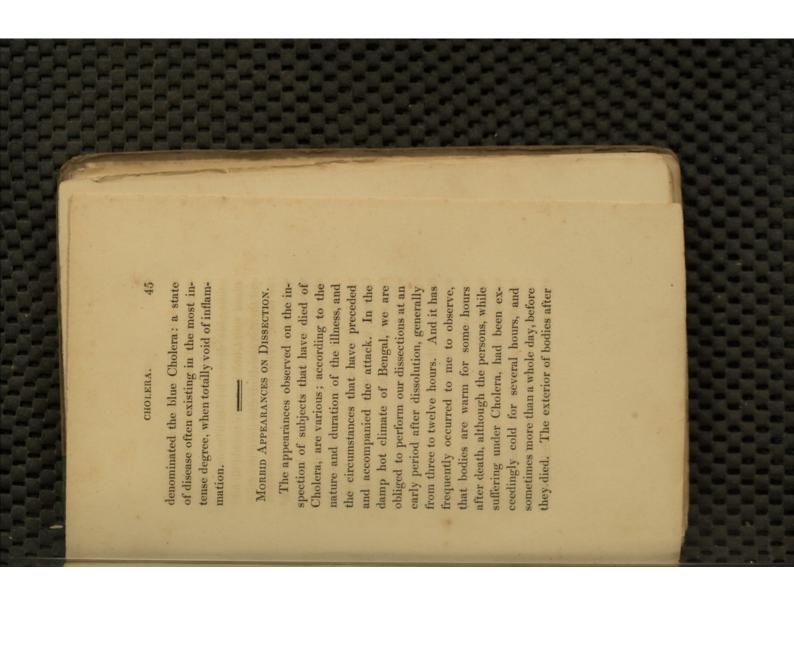
stimulants, after long continued collapse, as above stated; a febrile condition follows, with frequent weak pulse, and lurid redness of face, resembling the remote stage of bad cases of remittent Fever.

The fatal termination of Cholera, in some of the most sudden cases commencing with extreme collapse; seems to depend on the intensity of the efficient cause of the disease, acting so powerfully on the nervous system as to produce total arrest of all vital energy; and death, as it were by suspension of animation; cessation of vital actions taking place, with hardly any preliminary course of disease.

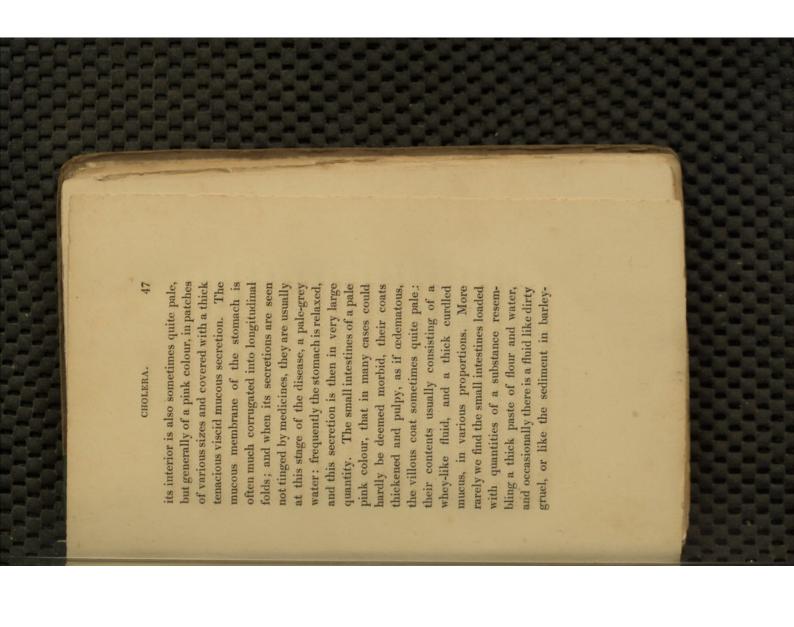
Many others die from venous congestion, with a remarkable stagnation of the blood in the great veins of the internal parts of the body, and cessation of most of the secretions; combined with a less



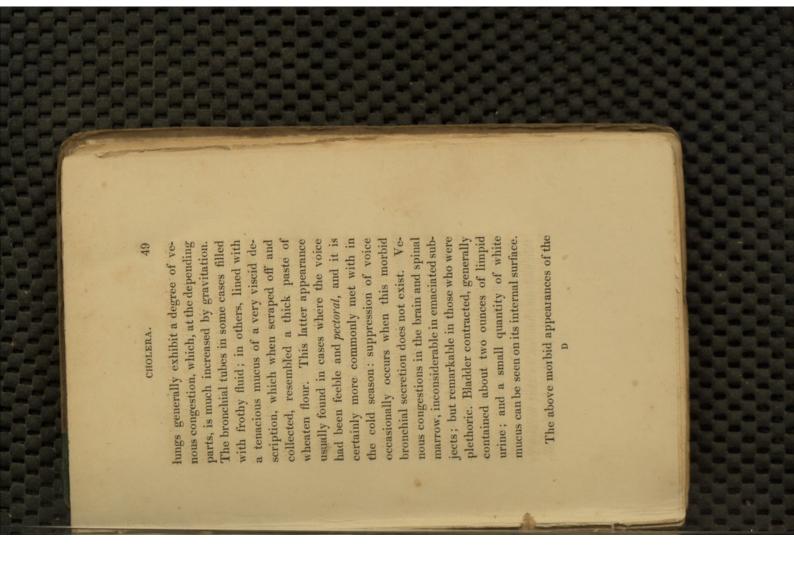




The most common morbid appearances in the viscera of those who die after an illness of only a few hours; are a pale colour of the stomach, when viewed externally; a thickening of its coats, so as to feel like a thick new doe-skin glove;



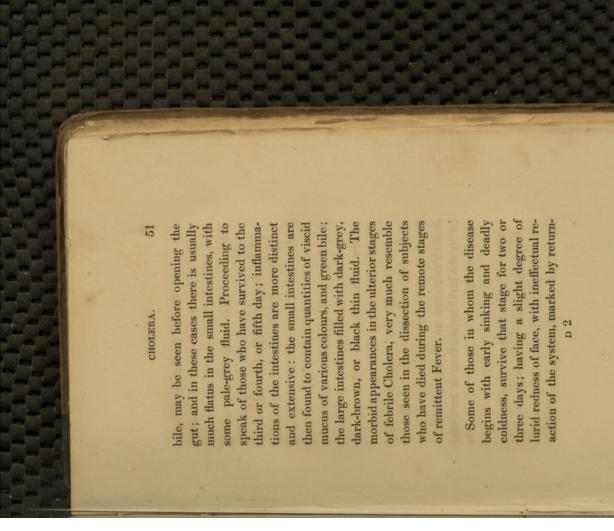
of the disease, are of a pale bluish cocoats frequently remarkably thin; conwater. The great intestines at this stage subject be plethoric. The gall-bladder teric veins and the cavæ, turgid with floating. The great portal and mesenwater in which some films of mucus are tents, copious and watery, or like ricelour, with little or no vascularity, their state. In a few emaciated subjects, of green, usually somewhat inspissated, is found to contain bile of various shades from venous congestion, especially if the blood. Liver and spleen usually tumid where the watery purging had been very but frequently appearing in a healthy with the usual lubricating serosity; the cera was sometimes dry, and not covered the peritoneal coat of the abdominal visremained much corrugated after death; profuse during life, and the extremities whole of the viscera seeming shrunk and usually distended with black blood. The bloodless. The cavities of the heart are



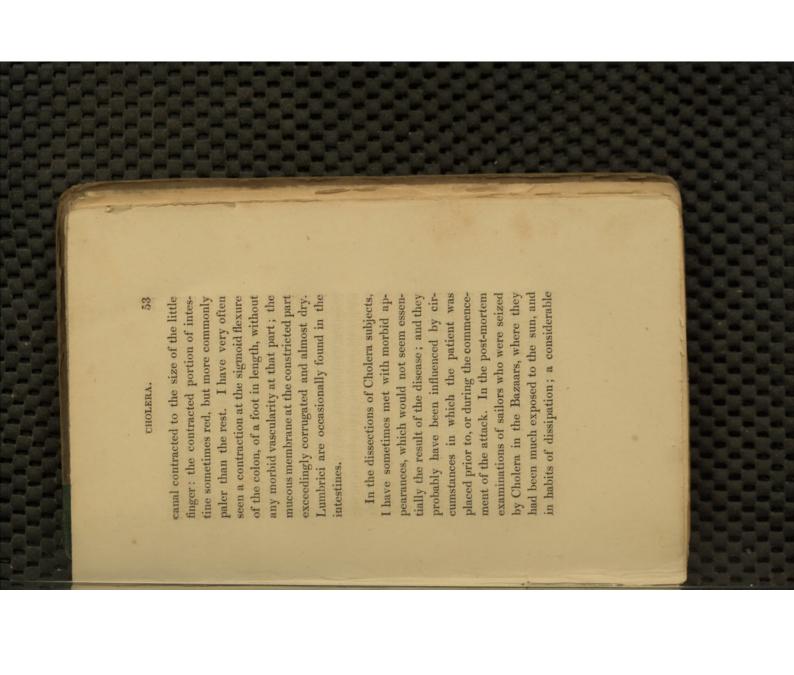
gescence during life: but this is doubtful.

viscera, in cases of Cholera proving rapidlyfatal; are supposed to be the vestiges of a much higher scale of vascular tur-

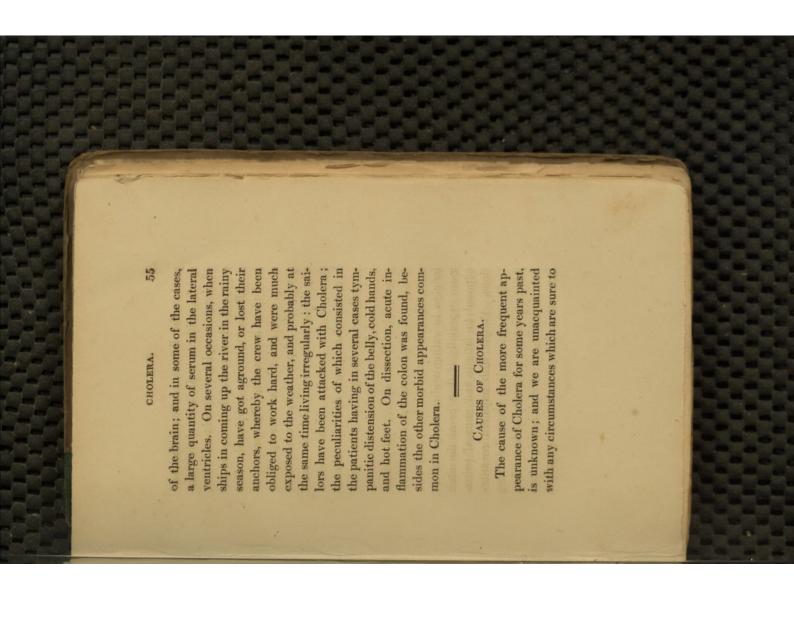
the small intestines. The omentum, medistinct appearances of inflammation of ed by any febrile symptoms, the congeswhen a prolonged disease has been markand painful spasms; but more especially Cholera has been attended with violent degree of morbid vascularity: the musentery, and mesocolon, present a high tions above described, are attended by with red, and this is often the case when extensively and more highly coloured cous membrane of the stomach is more mach, it is still pale and its coats much on examining the exterior of the stothickened. In more advanced stages, viscid mucus, deeply tinged with green thin and diaphanous, so that masses of the coats of the small intestines are found When the patient has lived longer, and



When febrile and spasmodic symptoms have predominated, we occasionally find intus-susceptions in the small intestine, and still more frequently portions of the



effusion was found on the hemispheres several of them. On dissection, serous many of the men were attacked with and much hard work, during a succession Cholera, which quickly proved fatal to Soon after the crew landed, in June 1830, injured that she was brought to Calcutta. of gales of wind on the homeward voyage water, were exposed to severe privations from China; and the ship was so much



it is certain that persons recently arrived lera than the robust and healthy: and exposed to fatigue and unusual privafrom any cause, are more liable to Chotions, or who are in a state of debility tions. People with impaired constitumore especially if they be at the time indulge in eating cold or unripe fruits: using ill-cooked or bad food; and who changes of weather; who are frequently posed to humid atmosphere and sudden in low and ill-ventilated situations, exhave abundant proof that the disease forms of this malady. However, we ally liable to be seized with the worst any species of privation; are occasionevery sort, and who are exempt from prevails most, among those who reside in the best houses, avoiding excesses of der all circumstances: people who live occurs at all seasons of the year, and unof always escaping its attack. Cholera which, residents in India can be certain produce the disease, or by avoidance of 57

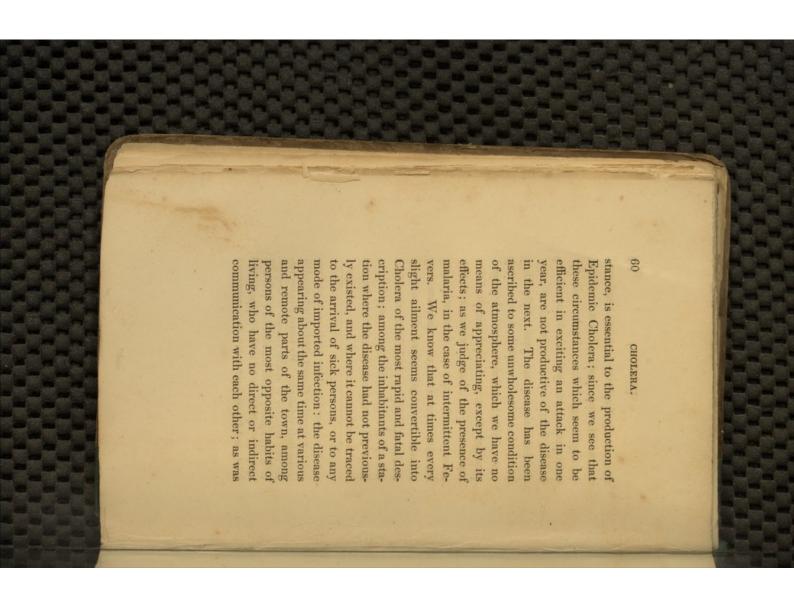
from Europe, are very liable to an attack, if the disease happen to prevail at the time in the vicinity of their residence. The depressing passions, doubtless have much effect in rendering people more liable to an attack of the disease.

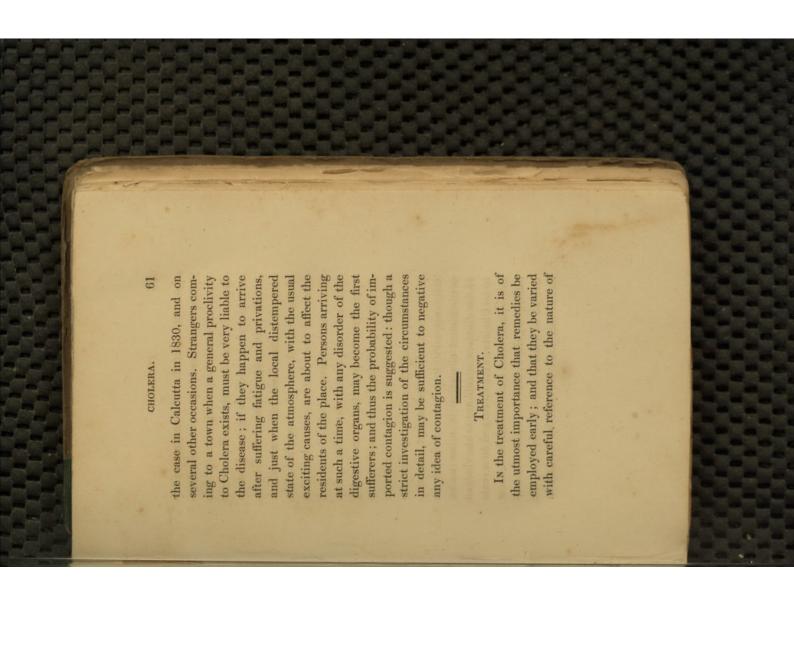
pears to be among the most frequent exciting causes of Cholera; for we find it has commenced generally between two Sudden decrease of temperature apand five o'clock A.M. when the cold damp other symptoms of the disease, after having slept in damp clothes. Soldiers Men are often attacked soon after exposure to rain, when they are fatigued; and many awake ill with cramps and on fording a river early in the morning, though the water be not a foot deep, are apt soon to fall ill, especially if they have marched several miles previously, so as to be heated and fatigued before they air is most sensibly felt in this country. pass the ford: and they are often at-

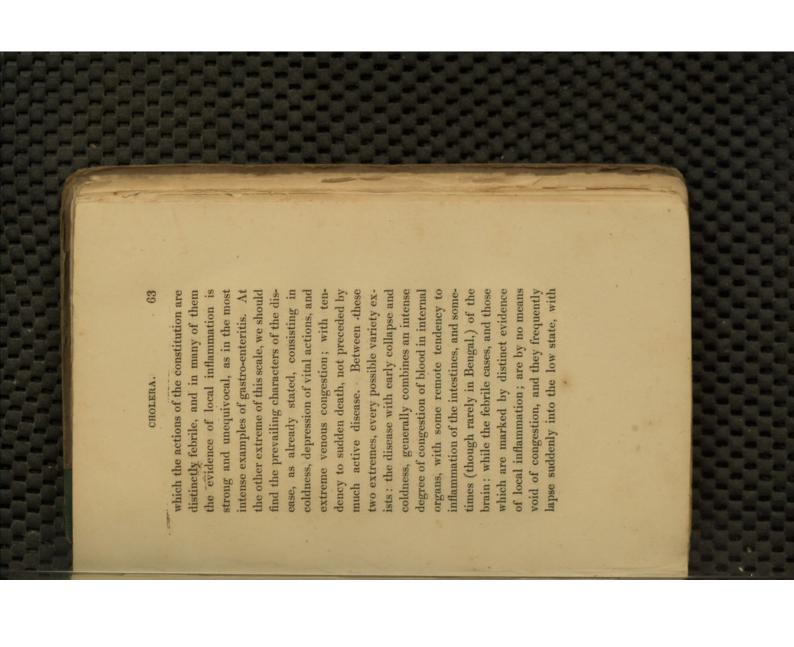
D 3

diers of the Regiment; ninety-four cases of Cholera appeared within a few days, of whom twenty died. Of these ninetyfour patients, forty-five had been from nine to fourteen years in India. Nevertheless, at corresponding periods, in other profusely for several days, without Cholera coming on: intemperance to the utmost extent, exposure to atmospheric vicissitudes, and all the other exciting causes* above enumerated, often exist to years, we often see patients vomiting violently for hours, and others are purged an extreme degree, and the disease does not follow. Therefore we must acknowledge that some other cause or circum-

^{*} The same observation may be made with respect to many other diseases which are influenced by atmospheric vicissitudes. We cannot give any reason why exposure to sudden changes of temperature, in England, causes Rheumatism to prevail in one year; Ophthalmia in another; Catarrhs in a third; and Fevers in a fourth.

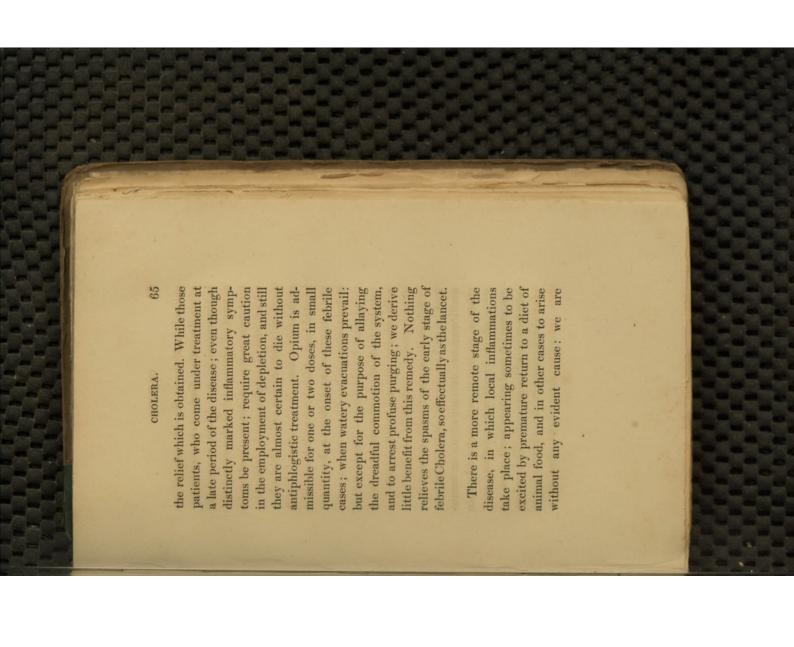






coldness, and the most awful prostration of vital power. Our watchful attention to the course of the disease is urgently demanded, on account of this occasional tendency to sudden change; lest we be misled, and induced to use depletion, by V. S. or other means, at a time when such treatment may be injurious. It will be evident that the treatment of Cholera must be varied according to the nature of the disease.

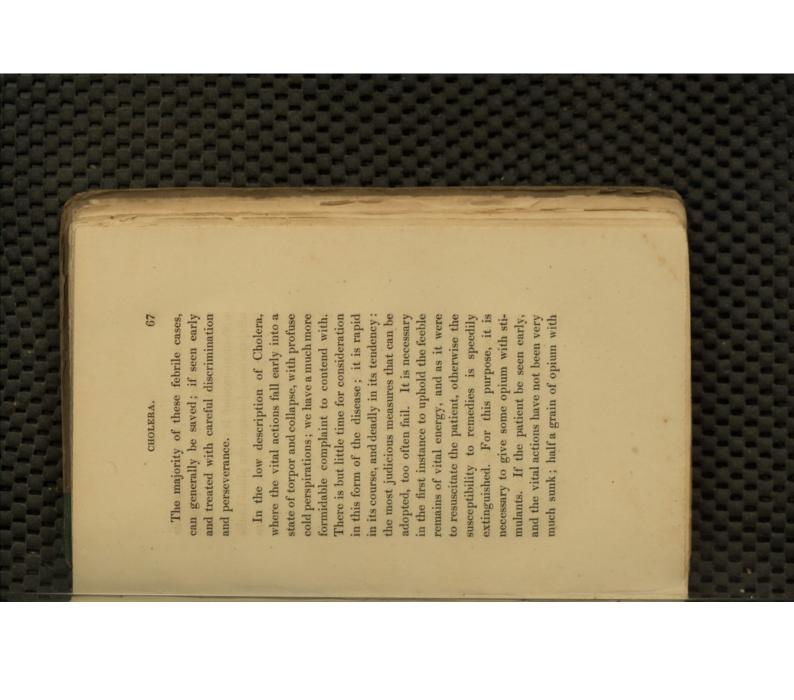
In the febrile and inflammatory stages of the disease, attended with violent and painful spasms, warmth of surface, and free circulation; our chief dependance must be on V. S. leeches, and purgatives of calomel or blue pill, with cathartic extract; alternated with castor oil: in a few of these febrile cases, we may venture on jalap and scammony at more remote periods of the disease. The earlier a case of Cholera of this description is bled, the more certain and effectual is

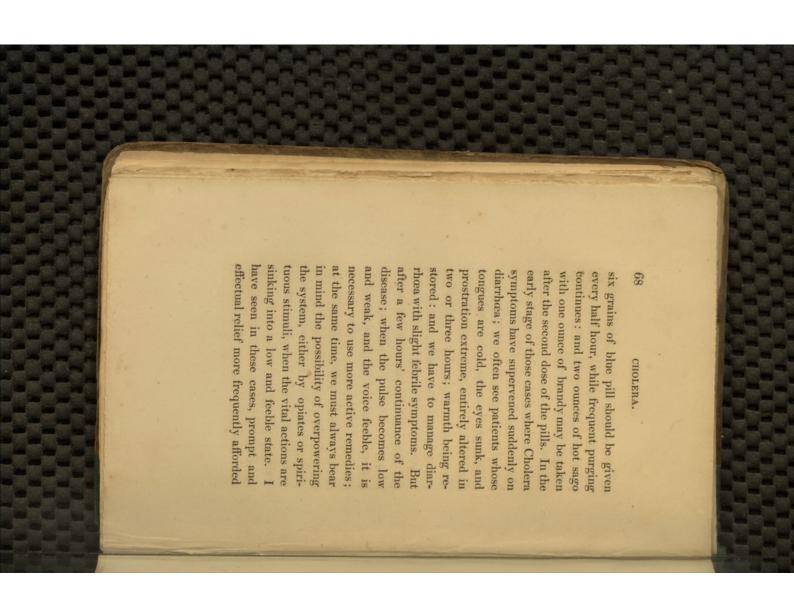


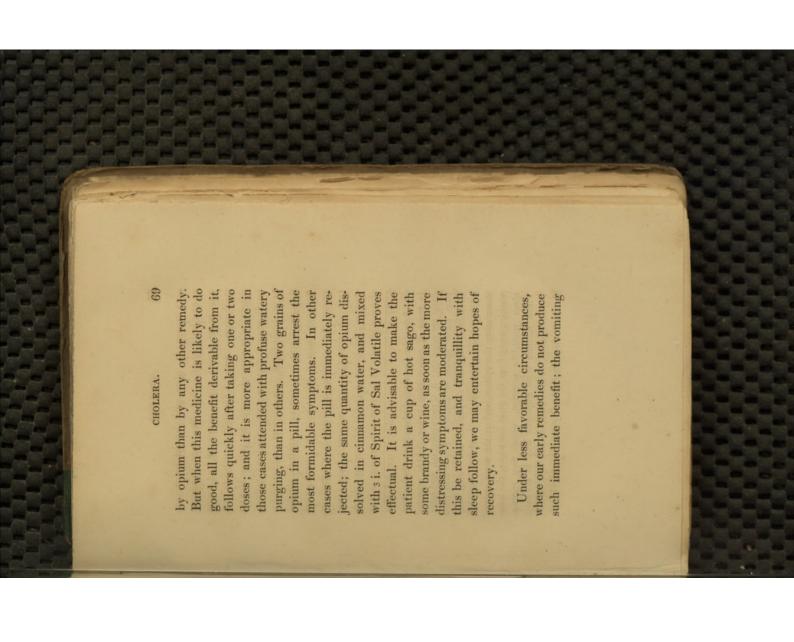
purge the patient freely, as in an ordinary

inflammatory fever. At the same time, a word of caution is requisite; lest the inexperienced practitioner, should mistake for fever or inflammation, the transient and ineffectual re-action which often occurs just before death: attended with morbid heat of forehead and chest, while the patient is torpid, blue, and restless; as vain attempts have been made to cure these cases by bleeding. The least that can be said of such treatment, is to acknowledge its total inutility.

Where the evacuations have been profuse, it is always advisable to give a small quantity of thin sago, or arrowroot; as soon as the stomach will retain it; and the employment of a small quantity of food of this sort, need not interfere with the general antiphlogistic plan above stated.

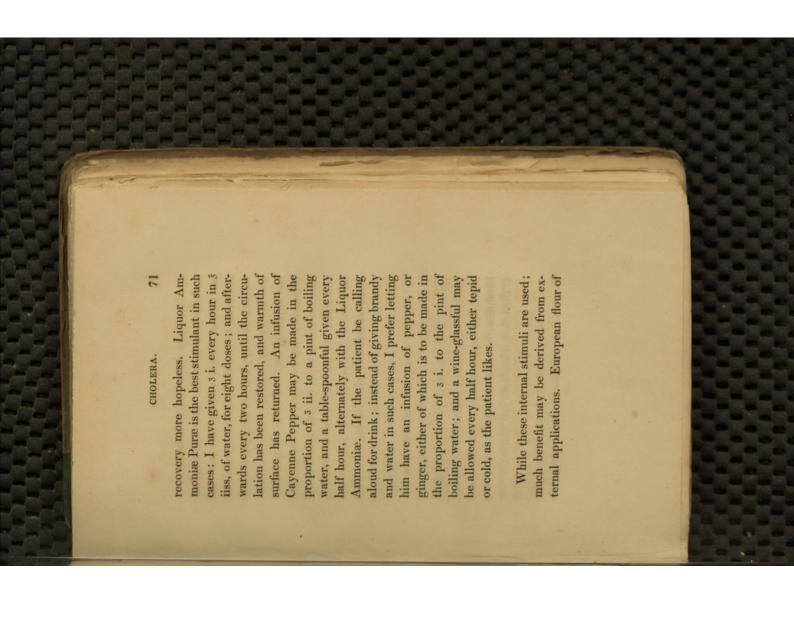






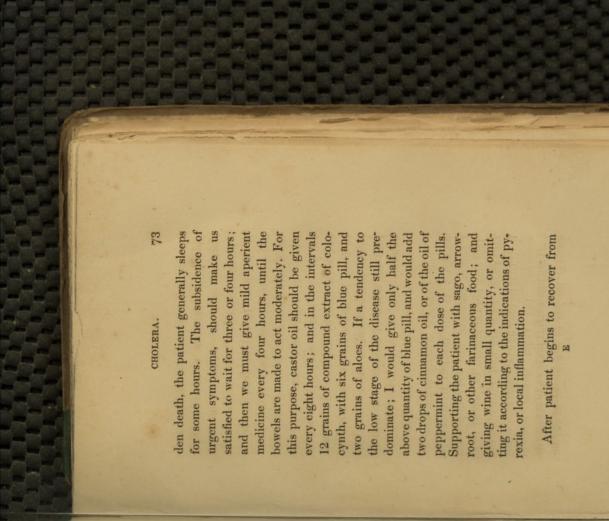
and purging are either arrested, or having been from the first less urgent; we find the lowness and coldness not removed. The thirst is extreme, pulse feeble and 120, or more frequent; while a weak pectoral whining voice, indicates the impaired function of the respiratory organs, and inward distress of the patient. In such cases, repetition of opium is apt to stupify the patient, without effecting any other purpose;* and spirits too often seem to overpower him, and render

^{*} I consider Ammonia the best internal stimulant, in cases of approaching torpor, where repeated doses are requisite; it is more effectual, and safer than either opium or brandy. I have also tried Enemas of four, and six pints of hot water, containing Ammonia in solution; with the view of stimulating the system, and at the same time of washing away from the great intestines, the tenacious paste-like secretion, which they contain. These Enemas were employed only in the most hopeless cases, when other stimuli had failed; therefore they were generally unsuccessful.

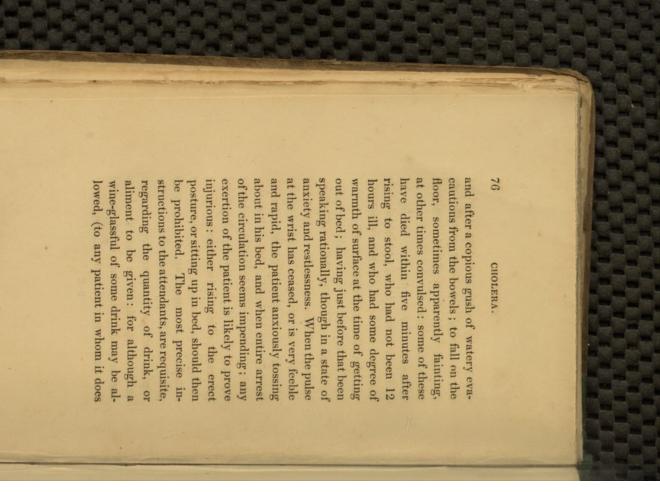


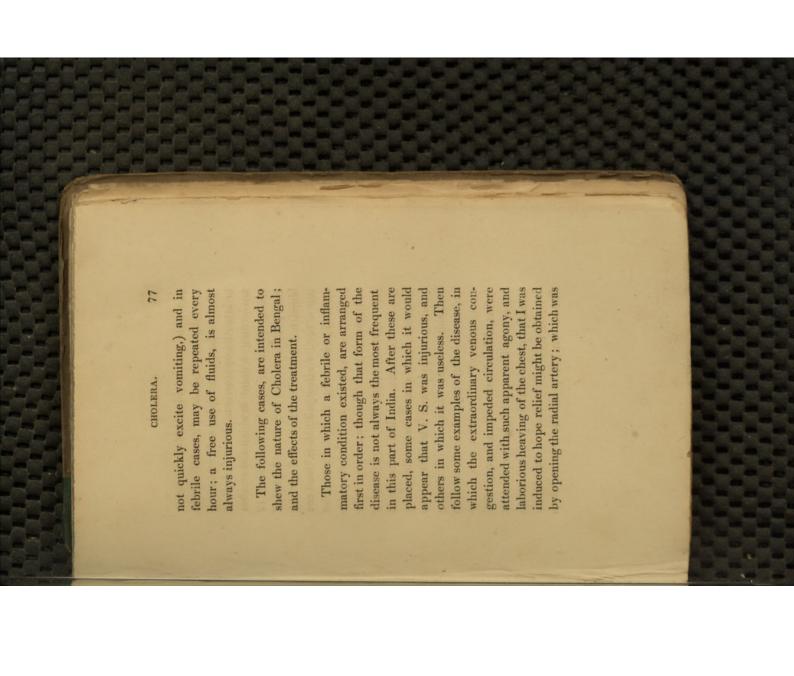
of the other stimulants just named. harshness, which is an objection to some from the appearance of cruelty and spine. The mustard plaster is not so irksome to bear as a blister, and it is free in extreme cases, the red hot iron has water, as well as pure nitric acid; and and when left on for five or six hours it will soon act as a strong rubefacient, and to the spine, and feet. If the skin and across the lower part of the chest, been applied to the epigastrium and pentine, common Blisters, and boilingternal stimulant: after having tried Turblisters. I prefer this to any other exretain any degree of susceptibility, this calico; and applied to the epigastrium common salt added: this is spread on ointment, about one-eighth part of and when made to the consistence of an mustard is to be mixed with hot water,

If we are so fortunate as to arrest the progress of symptoms threatening sud-



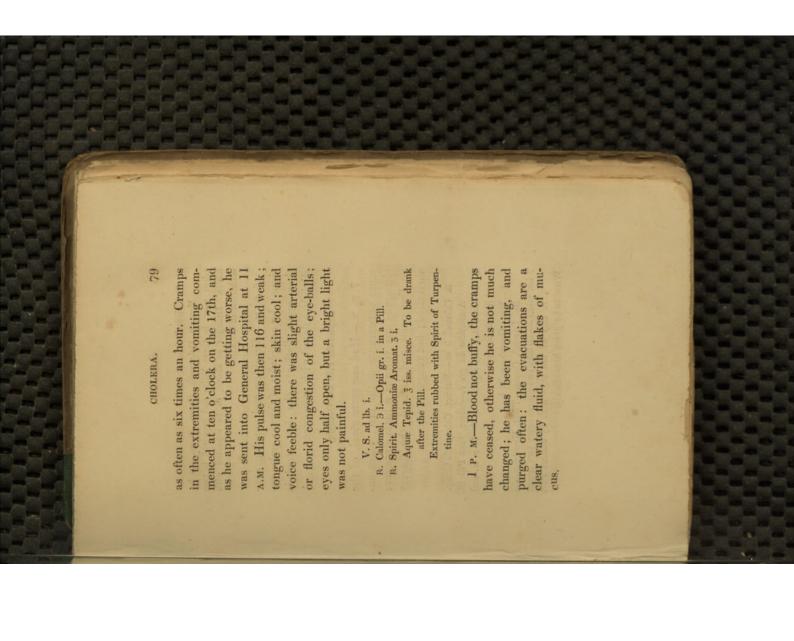
The domestic management, and accessories to the medical treatment of Cholera patients, are very important. The sick person should be placed in an airy room, on a low and rather narrow bed; that he may be easily and effectually assisted: the room should not be crowded with attendants, nor should the patient be left in a draught of air, but





and the existing stage of the disease. quisite; to apply such remedies as are diligence and discrimination are recan be followed; and that the utmost prove that no exclusive rule of practice and stimulants. These examples, will best suited to the nature of the attack, patients were at first treated by opium deemed advisable; and therefore the coldness and collapse, with sinking of veins, or the attempt at V. S. was not blood could not be obtained from the vital power, were so extreme; either that are arranged cases in which the sudden leviate the oppression. Next in order, Cholera have considered sufficient to almost urgent advocates of blood-letting in tried, and as much blood obtained as the

Case VI.—Thomas Greenwood, Æt. 21, of middle size and light complexion, recently landed from Europe: was taken ill with purging, at noon on the 16th November, 1830; and he was at stool



R. Calomel. 9 i.

hours. Draught as above, to be repeated with taken now, in three Pills; and repeated in two each dose of the Pills. Extract. Colocynth. Comp. 3 ss.-to be

slightly colored with grey faces. ther more distinct; the last stool is tinue; he complains of thirst; pulse ra-5 P. M .- Vomiting and purging con-

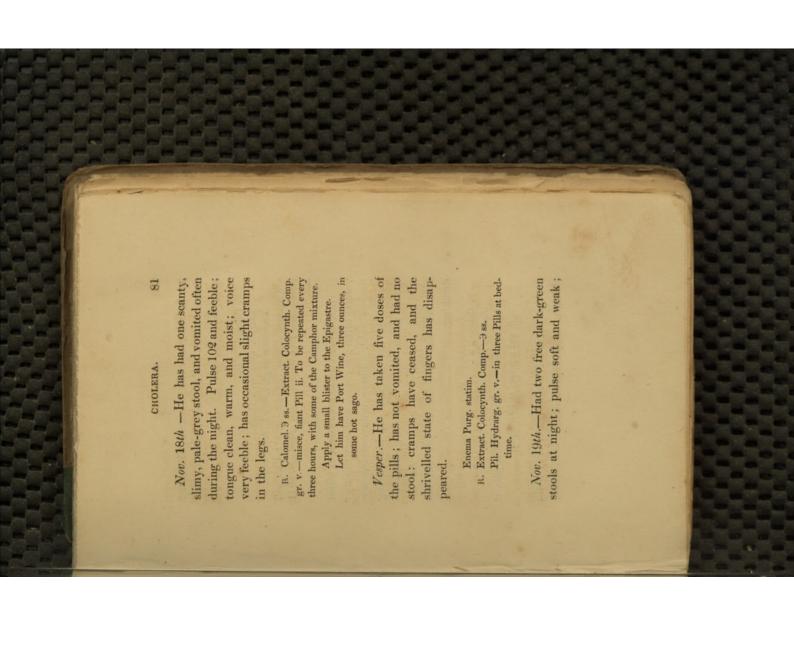
Repeat the Pills and Draught,

shrivelled; but tongue warm. same appearance as the last; pulse unhe lies quiet and is cold, the fingers changed; his voice is a little stronger; 7 P. M.—Had one more stool, of the

To be taken at 7, and repeated at 9, 11 r. m. and 1, and 3 a. M. to-morrow. R. Mist. Camphoræ lb. i. R. Calomel. 9 ss.—Extract. Colocynth. Comp. Asafœtidæ āā gr. v.—misce, fiant Pill iii.

3 iss. misce.—To take two ounces every two hours. Sp. Lavand. Comp.—Tinct. Hyoscyami aa

Wine to be given immediately. A cup of hot sago with It ounces Port



he is cold, but his voice is stronger: tongue warm, moist, and slightly coated with white mucus.

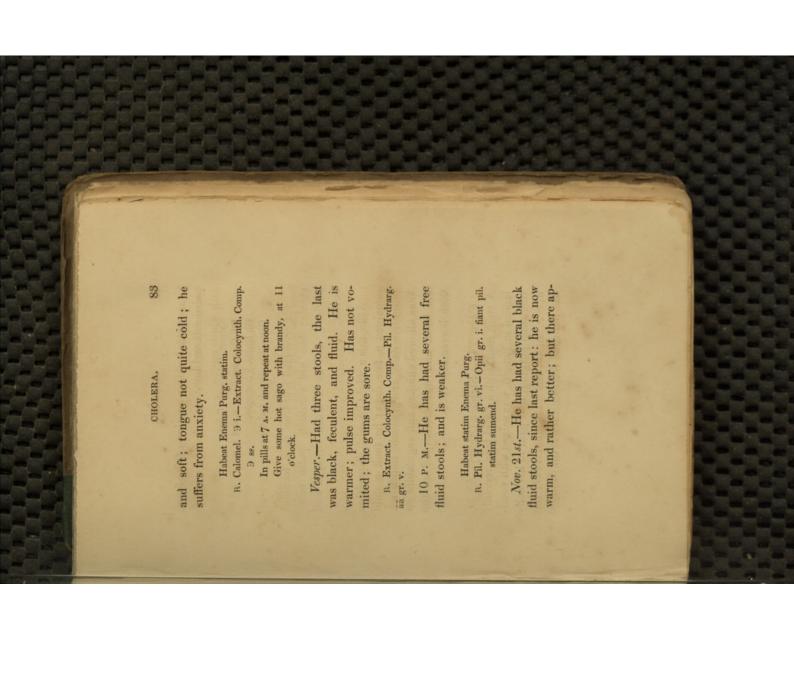
R. Calomel. 9 ss. Extract. Colocynth. Comp.

Assfœtidæ aa gr. v. To be taken at 6 A. M. and repeated at noon, and at 3 r.M.—Diet, tea, and three ounces Port Wine in a cup of hot sago at 11

Vesper.—He took three doses of pills; vomits often; is colder and very thirsty; tongue cold. These unfavourable appearances are ascribed to his having drank much water, and tea; which he obtained contrary to orders. An attendant was directed to prevent his drinking.

R. Calomel, 9 i.
Extract. Colocynth. Comp. 9 ss.
Opii. gr. ss. To be taken in three pills, at 6, and repeated at 10 o'clock.

Nov. 20th.—No stool, and very little change in any respect. Pulse low, weak,



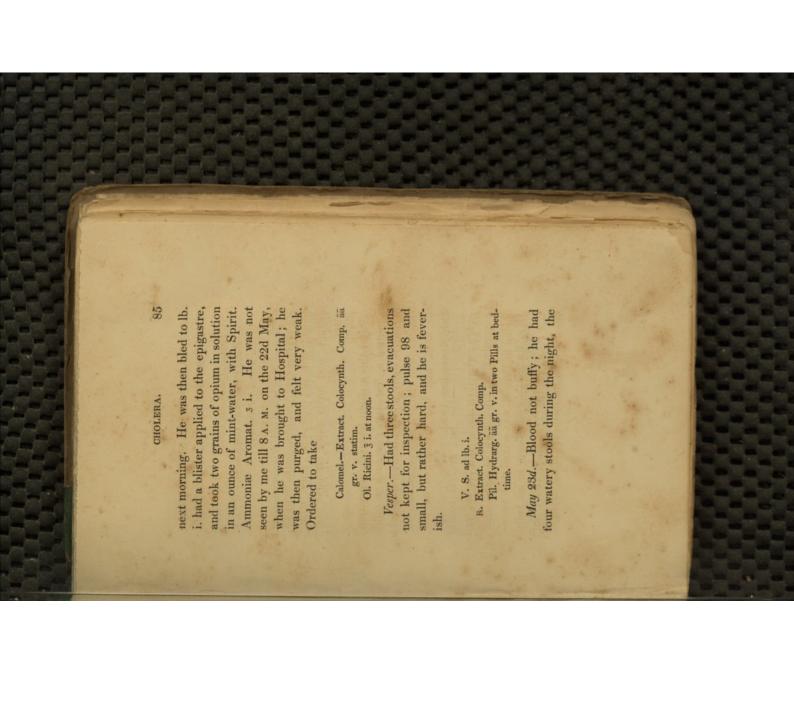
pears some lurid congestion of the face; pulse soft and low,

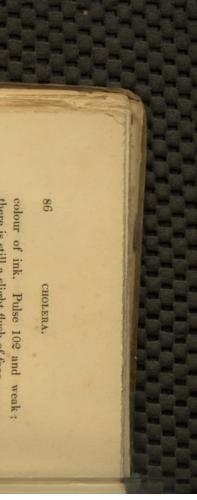
R. Extract, Colocynth. Comp.
Pil. Hydrarg. āā gr. v. at 6 a. m.
Ol. Ricini. § i. at noon.
Diet — Tea, Bread, and Sago.

Vesper:—Had four free, dark, feculent stools; has not vomited, pulse more distinct, and he is much stronger and better.

After this a slight feverish disposition remained a few days; he took a mild purgative daily, and gradually improved. Was allowed chicken and vegetables on the 25th, and was discharged on the 29th November, 1830.

Case VII.—Stephen Drewry, Æt 31. A stout man, with a florid face, recently landed in Bengal, was seized with vomiting, and purging, and pain in his belly at 8 p. m. on the 21st May, 1827, but did not send for medical aid till daylight





there is still a slight flush of face.

R. Calomel. Ol. Ricini. 3 i. at noon. Extract. Colocynth. Comp. aa gr. v. at 7 A. M.

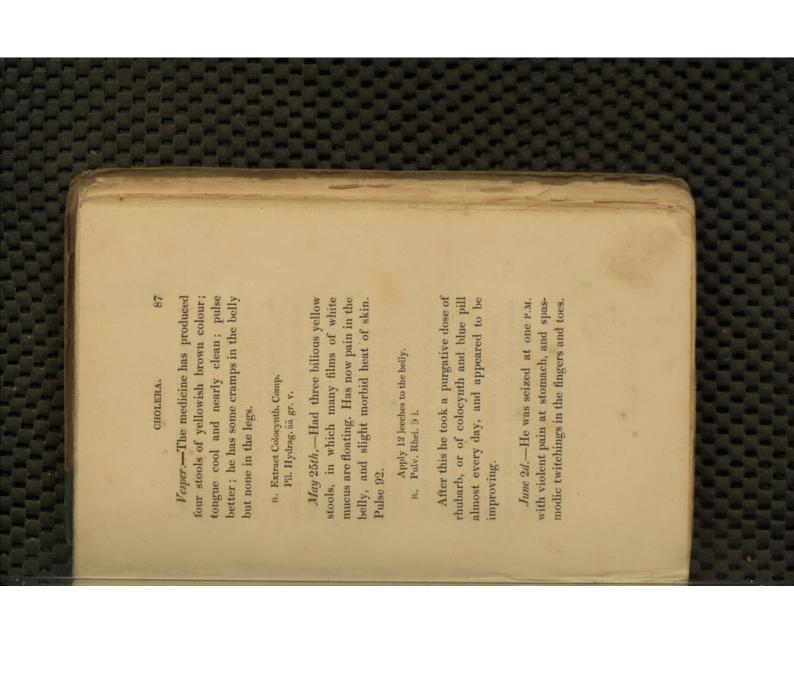
tongue cool, moist, and clean. now pain in the lower belly, and oppression at chest. Pulse 70, soft, and weak; fluid, black stools, since morning; he has Vesper. 5 P. M.—Had five very scanty,

R. Extract. Colocynth. Comp. Pil. Hydrarg. aa gr. v.-Opii gr. 1/2, to be Apply six leeches to the lower belly,

Ol. Ricini. 3 i. at 8 o'clock. taken now.

green and yellow stools, and has suffered severely from cramps in his legs. May 24th.—He had several scanty

R. Extract. Colocynth. Comp. Ol. Ricini. 3 i. at noon. Pil. Hydrarg. aa gr. v. to be taken at 7 a. m.



Pulse strong and frequent. He was bled to 20 ounces; the blood on cooling was buffy.

R. Extract. Colocynth. Comp. 9 ss. Pil. Hydrarg. gr. v.—Opii gr. i. misce—to be taken at 6 r.M.

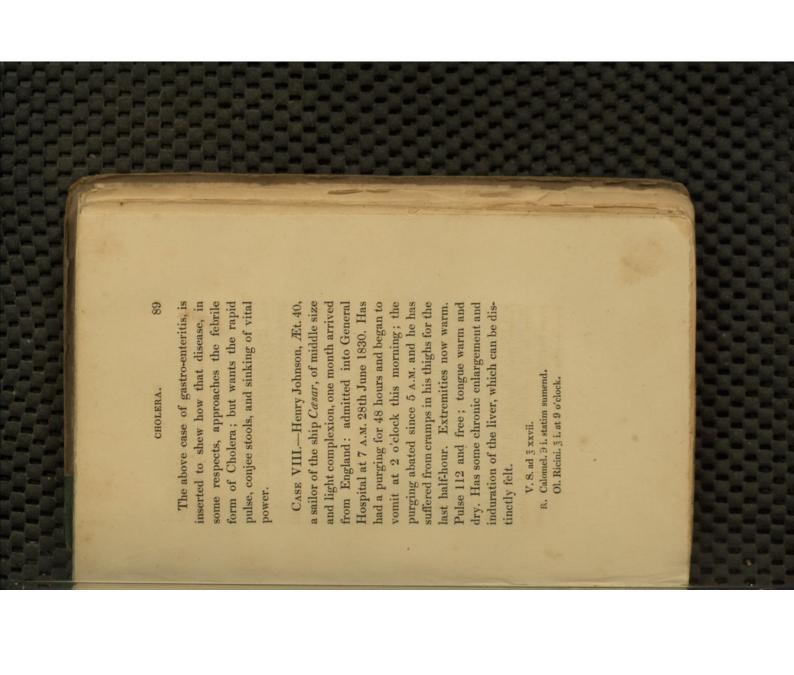
3d.—Pain moderated, but not removed: a white tongue, and slight pyrexia; no stool.

Apply 16 leeches to scorb. cordis. Enema Purg. statim.

R. Ol. Ricini. 3 iss. at 6 a.m. and repeat at noon.

Six leeches were applied on the 4th, and again on the 5th; and he took a mild purgative daily.

June 10th.—Pressure over the belly caused pain, therefore a blister was applied to the abdomen, and mild purgatives were continued till 28th June, when he was pronounced well.



Half past 10 A.M.—One cup of the blood taken at 7 A.M. is buffy, the other not; he has had two stools since admission; they are like rice-water. He complains of dreadful pain at scrob. cordis, and is crying aloud for drink; there is great anxiety. Pulse 132, fingers shrivelled, but the extremities are still warm; he voids no urine.

Repet V. S. ad. 3 x. R. Calomel. 9 i.

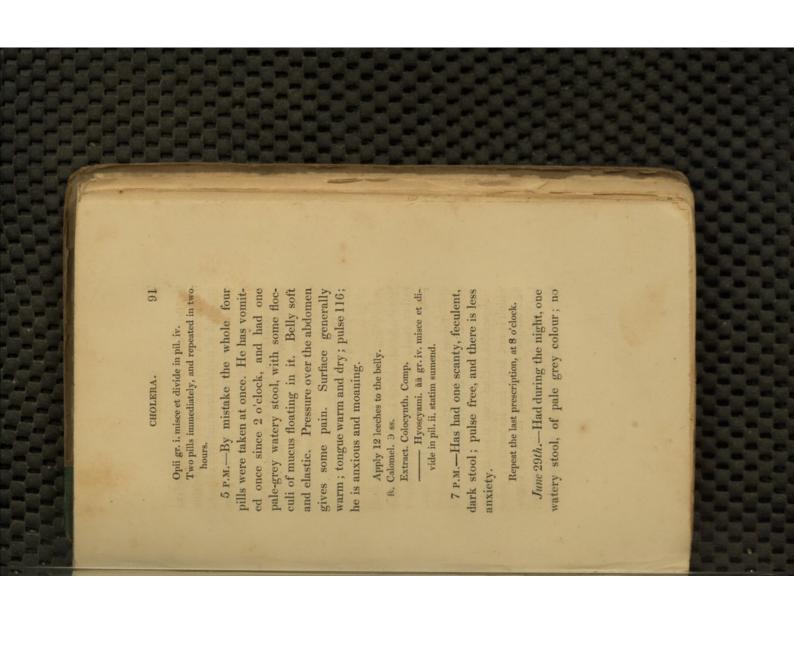
Extract. Colocynth. Comp. gr. v.—misce fant pil. ii. statim sumend.

Allowed 2 oz. of Cream of Tartar drink,

every hour.

2 P.M.—Blood not buffy, had only one return of cramps since half past 10 o'clock. There is at present great anxiety; pulse 120 and soft: has had since last report, six copious watery conjective stools, in quantity at least 8 pints.

R. Pil. Hydrarg. 9 i. Extract. Colocynth. Comp. 9 ss.



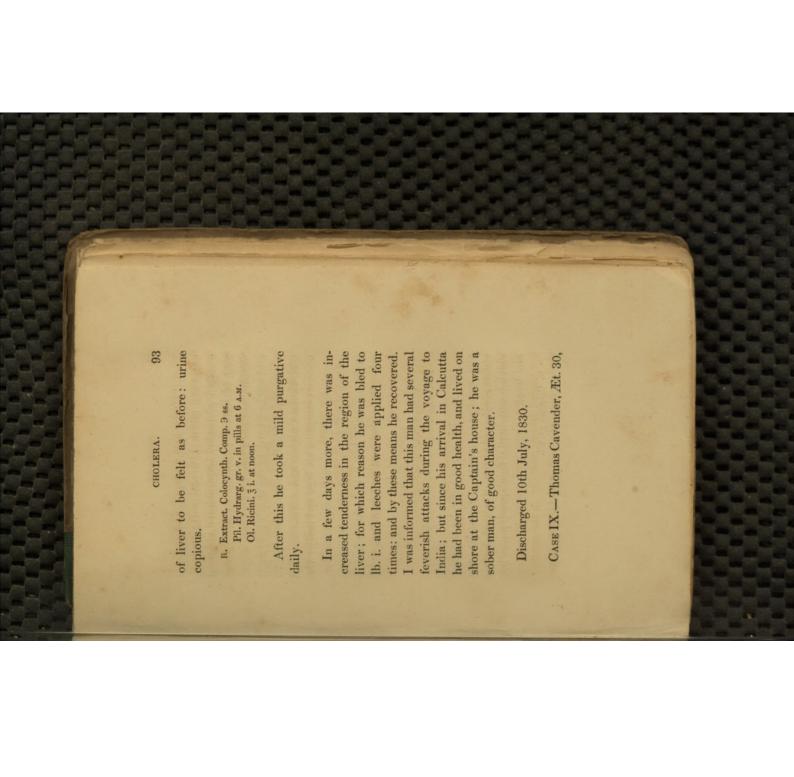
Apply four leeches to the region of the liver.

R. Extract. Colocynth. Comp. 9 ss.
Pll. Hydrarg.gr. v. misce fiant, pil. iii. statim sumend.
Ol. Ricini. 3 i. at noon.
Tea and thin sago allowed.

Vesper.—Had four free, feculent, fluid stools, nearly black; pulse 108; skin rather cool; he is very thirsty; has no pain except in the calf of the right leg.

Extract. Colocynth. Comp. Pil. Hydrarg. ää gr. v. at bed-time.

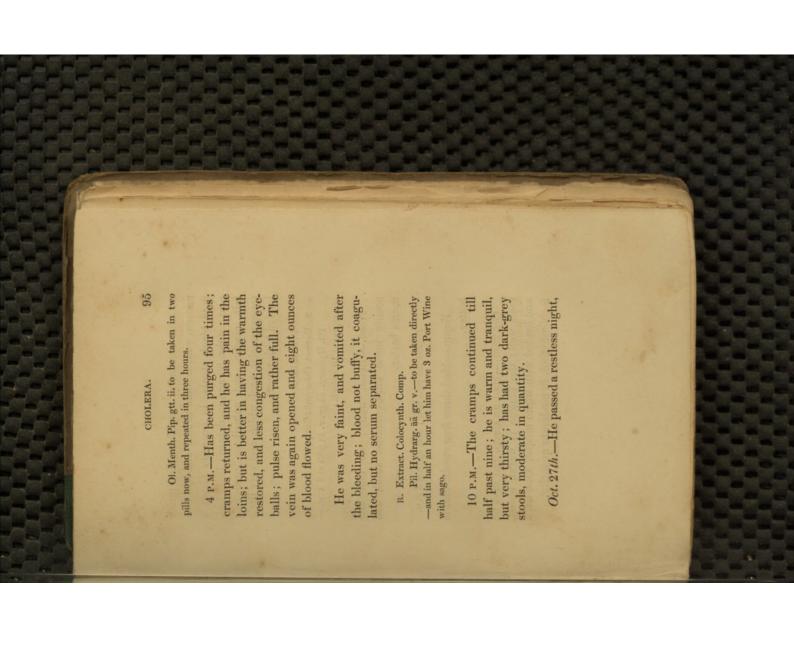
June 30th.—Had one stool at night, which is not kept for inspection; pulse 84; tongue clean and moist at edges, but loaded, brown, and dry in the centre; skin cool; belly soft and elastic; edge



V.S. ad lb. i. R. Calomel. 9 i.

10 a.m.—Blood not buffy, he is cooler and weaker; cramps moderated; the stools consist of water, of a dark-brown colour, with little feculence; pulse 96, and weak.

R. Calomel. gr. xii, Extract. Colocynth. Comp. gr. vi.



without spasms or vomiting; had much nausea, voided some urine; and had two fluid black stools, in quantity about a pint: pulse 86 and moderate; belly hot, full, elastic, and pained on pressure; tongue moist, cool, white, and very little loaded with mucus.

V. S. ad lb. i.

R. Extract Colocynth. Comp.

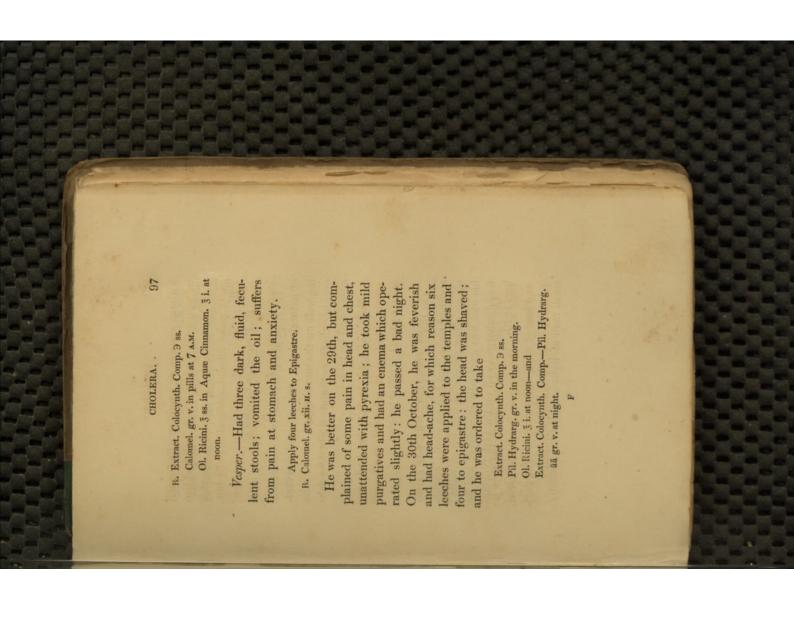
Pil. Hydrarg. āā gr. v. in pills at 6 A m.—and repeat at 10 o'clock.

Noon.—Blood buffy; he had one scanty loose dark-coloured stool, and seems better.

Repeat the pills now; and again at 3 P. M.

Vesper.—Had three free stools, and is tter.

Oct 28th.—Had no sleep, but says he feels well; the tongue is warm, moist, and loaded with white mucus. One dark feculent stool, in moderate quantity.



9 p.m.—These medicines have produced two dark fluid stools; he is anxious, and cool; pulse low. Ordered to take

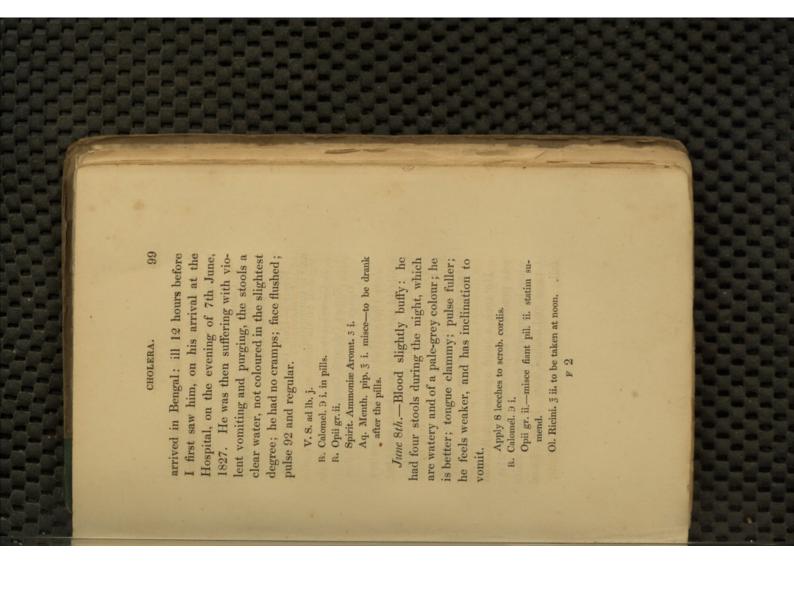
Pil. Hydrarg. gr. vi.—Opii gr. i.

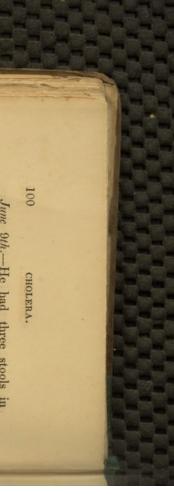
He slept at night; had two fluid stools of natural colour; was cheerful and feeling well on the morning of 31st. In the evening there was some slight feverishness; and he took

Extract, Colocynth, Comp. Pil, Hydrarg. ää, gr. v. Opii gr. i. in pills at bed-time.

On the 1st November, he felt better and had slept, but had no stool; castoroil or other purgative was given daily: his diet was gradually increased, and he was discharged well on the 14th November, 1830.

Case X.—James Cawson, Æt. 23, a small man of light complexion, recently





morning. June 9th.—He had three stools in the course of yesterday; and three this

R. Calomel.

Extract. Colocynth. Comp, aa 9 ss. in three pills at 6 A. M.

and is improving. Vesper .- Had two very free stools,

R. Calomel. 9 ss.

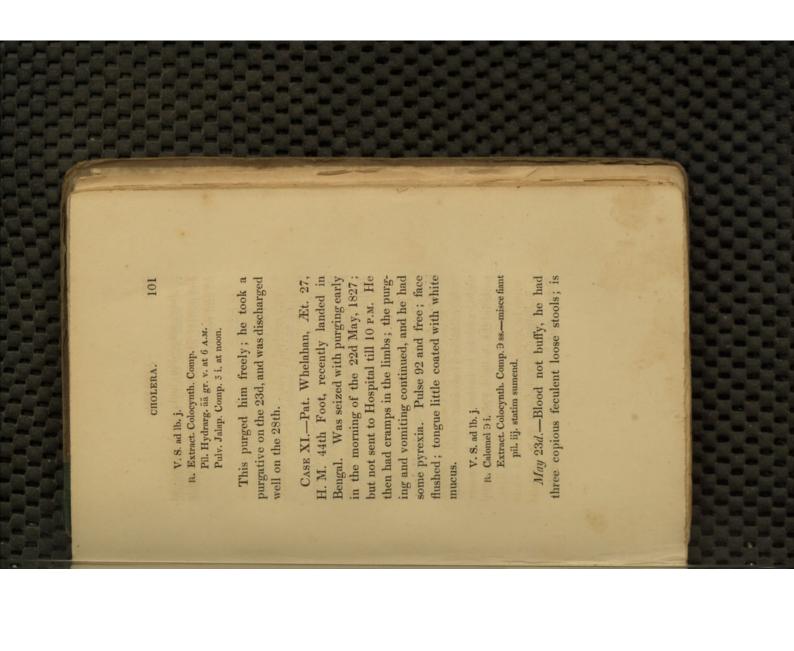
Opii gr. 1-to be taken in pills at bed-time. Extract. Colocynth. Comp. gr. v.

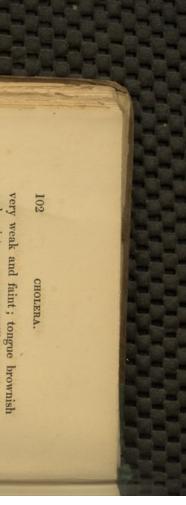
his face is flushed; pulse 60 and soft. stools in the night, says he is well, but June 10th.—Had four brown watery

R. Calomel.

R. Ol. Ricini. 3 i. at noon. Extract. Colocynth. Comp. aa gr. v. at 6 A.M.

when he appeared feverish, had a white was gradually improving till the 21st: tongue and flushed face. Pulse 88 and He took a mild aperient daily, and





98 and regular. and moist; cramps are still severe; pulse

R. Calomel. Opii gr. i.-misce fiant pil. iij. statim su-Ol. Ricini. 3 i. meridie. Extract. Colocynth. Comp. aa 9 ss. mend.

at the navel. he is warm and tranquil; has some pain stools, and vomited once during the day; Vesper.—Had four scanty dark-brown

V. S. ad lb. j.

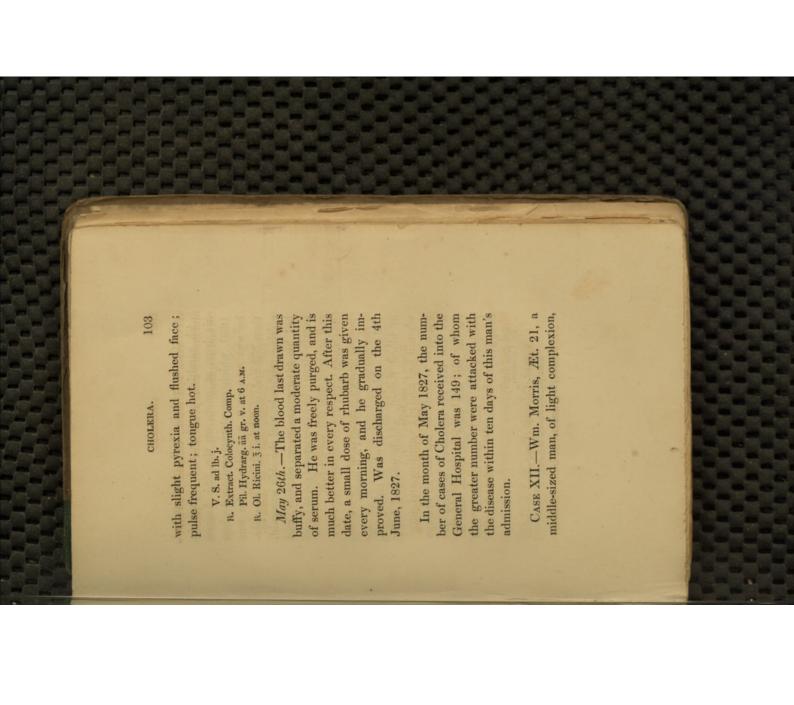
aa gr. v. Blister to the belly.

R. Extract. Colocynth. Comp.—Pil. Hydrarg.

night, and he is better; still has some blood not buffy. pain in the belly. Pulse 86 and soft; May 24th.-Had four stools in the

R. Extract. Colocynth. Comp. gr. v.

May 25th.—Pain in the belly remains,



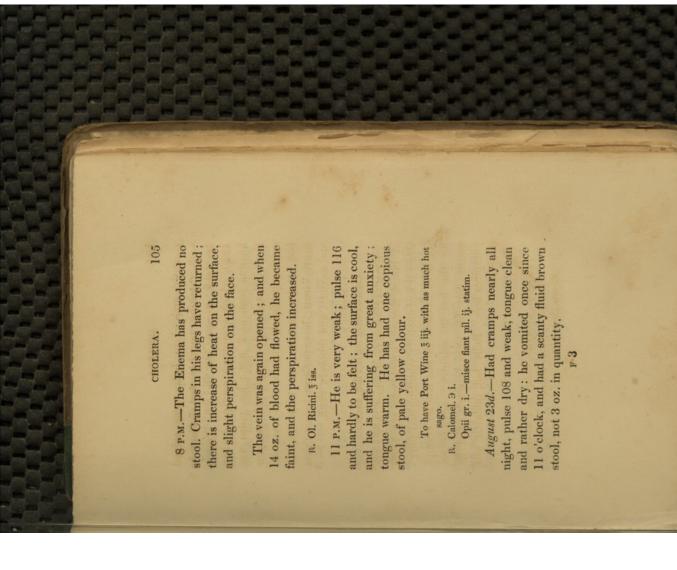
recently arrived in India, was seized with vomiting, purging, and cramps in his legs, at noon, on the 22d August 1830, which symptoms continued when he was seen at 2 P.M.; his pulse was then 102 and rather small; he was perspiring profusely, and the skin was cold, but his tongue was warm, clammy, and nearly clean; he experienced great thirst and anxiety, and felt very weak.

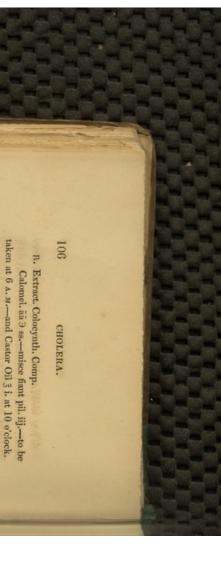
V. S. ad lb. j. Capt. Calomel. 9 i. in Pil. ij. statim.

6 P.M.—He was faint, when only 3 xii. of blood flowed, which was not buffy when it had cooled: vomiting and purging have ceased; he has had no cramps for the last 20 minutes; anxiety remains, but his skin is warm, and he perspires less. Belly hot, inelastic and doughy.

R. Calomel.

Extract. Colocynth. Comp. āā \ni ss.—misce fant pil. iij. statim sumend.
Enema Purg. statim.





3 P.M.—Had two free fluid stools; the belly is hot, and he has some pain below the navel. A small cup of sago allowed.

Apply four leeches to the belly.

R. Extract. Colocynth. Comp

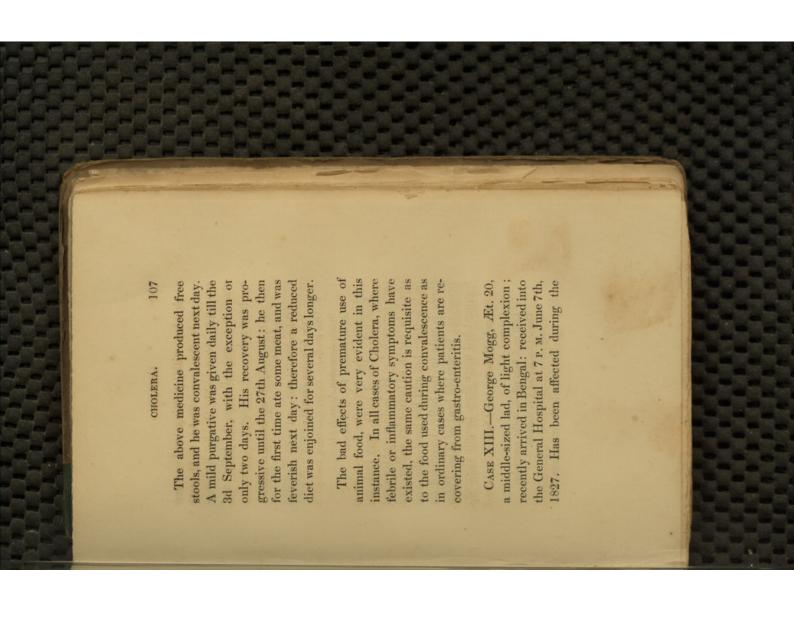
Pil. Hydrarg. āā gr. v.—misce fiant pil. ii. statim sumend.

9 r.m.—Pulse 106; he is free from pain, but feels very weak: has had another copious fluid stool, nearly black. Give 1½ oz. of Port Wine, with 3 oz. of thin and hot sago.

August 24th.—He slept, and is much better; had one stool of the same appearance as the last. Diet—tea, bread, and sago.

R. Pil. Hydrarg. gr. v.

Extract. Colocynth. Comp. 3ss.—misce fiant pil. ii. statim sumend.



much from pain all over the belly, and cramps in the legs. Pulse feeble and frequent; skin cold; he is suffering whole day with purging and severe

V. S. ad 3 xx.-He was ordered to take immediately.

has head-ache,

R. Opii gr. ij. Calomel 9 i. in pills: and at the same time the following draught:

Aquæ Menth. Pip. 3 ii. misce. Spirit. Ammoniæ Aromat. 3 i.

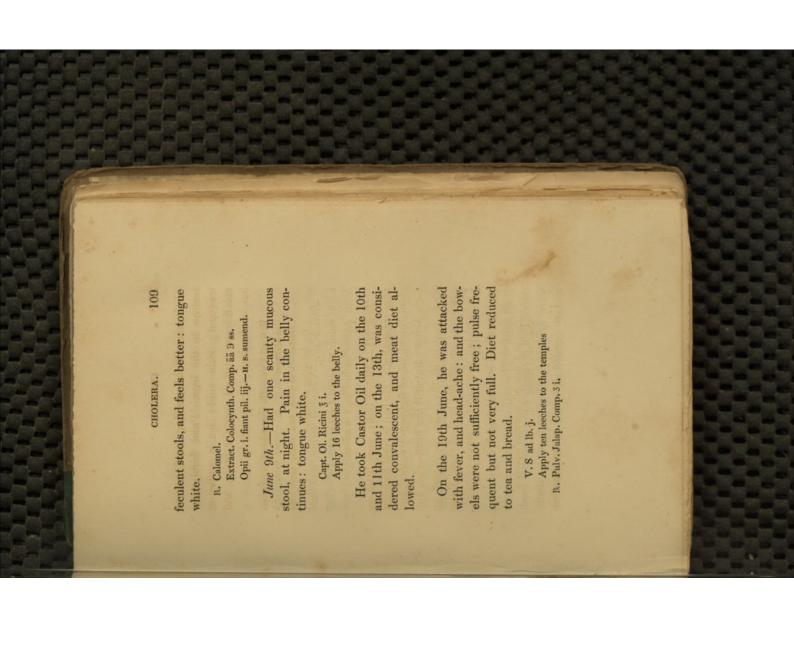
frequent but more free, tongue clammy. there is pain in the belly, increased on feels better; but still has head-ache, and stools in night, of light-grey colour, and rum separated. He had several feculent pressure; no morbid heat of skin. Pulse June 8th .- Blood buffy, very little se-

Apply 16 leeches to the belly.

R. Calomel, 9 i.

Capt. Olei Ricini 3 ii. meridie. Opii gr. i. fant pil. ii. statim sumendæ.

Vesper.-He has had numerous free



Vesper.—Blood buffy; head easier, but he is still feverish and thirsty; he was purged five times in the course of the day.

R. Calomel. gr. v.

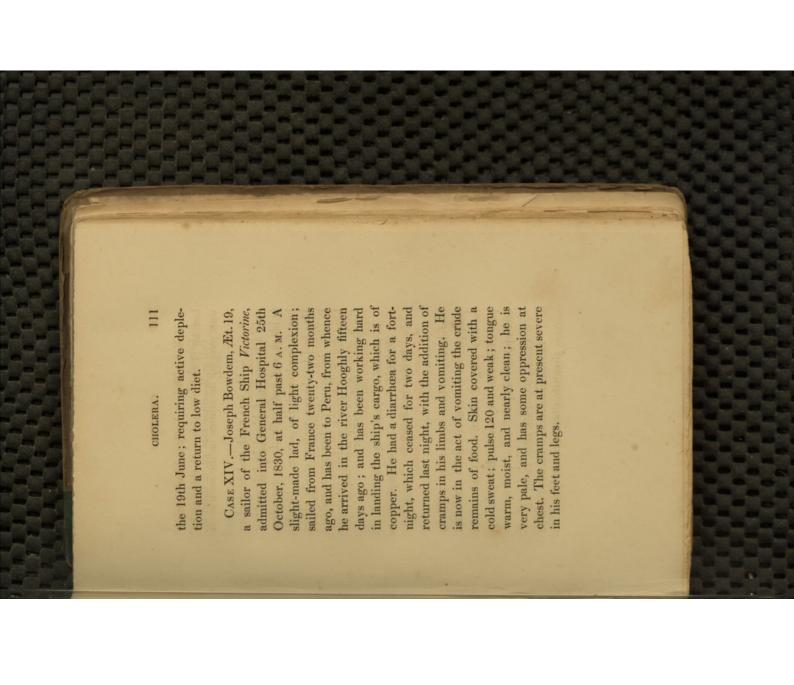
Extract. Colocynth. Comp. gr. xii.
Pulv. Antimon. gr. iij.—misce fiant pil. iij.

H. s. sumend.

June 20th.—Vomited twice, and had eight stools at night; he is now suffering from pains in his legs and thighs; pyrexia somewhat abated.

V. S. ad Ib. j.
R. Extract. Colocynth. Comp. 9 ss.
Calomel. gr. v. in pil. ii. statim.

June 21st.—Blood buffy; he was freely purged; no pyrexia remains. After this, he was purged with Castor Oil, and on the 28th June, discharged to join his Regiment. The evil consequences produced by a premature use of animal food, were evident in the febrile and inflammatory condition, which took place on



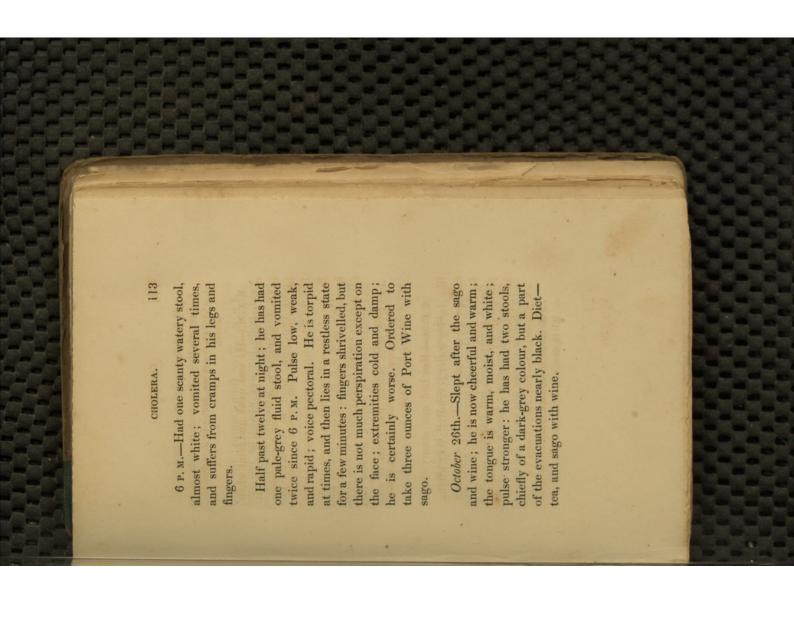
V.S. ad lb.i.
R. Calomel. 9 i.
Opii gr. ii.—misce fiant pil. ii. statim su-

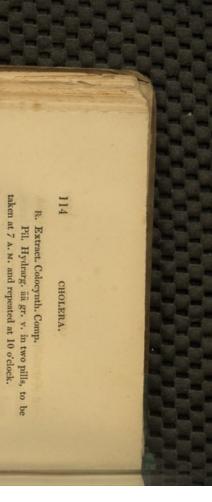
8 a. M.—He was weak and faint when only 12 ounces of blood had flowed; it is black and not buffy, but a coagulum has formed, and the serum is bloody. Has had two brown, watery stools, about lb. iss. in quantity; has not vomited; he suffers from great anxiety and desire for drink. Pulse weaker.

R. Extract. Colocynth. Comp. 9 ss.
Pil. Hydrarg. gr. v. misce fiant pil. iii.—to
be given at 9 o'clock.

2 P. M.—Has had one scanty stool, like barley water; vomited very often; cramps have ceased. He is cold and feeble; tongue white, cold, and moist; pulse 122, and very weak. He is thirsty, and appears stupid.

R. Calomel. 3 i.—Pulv. Jalap. Comp. 3 i.
Pulv. Scammon. Comp. (Ph. Ed.) 3 ss. to be
given now, mixed in treacle.





4 P. M.—Free from cramps; the skin cold, pulse low and weak; he has had

two scanty, black, paste-like stools. Repeat two pills such as ordered this Half past 9 P M .- Pulse feeble and

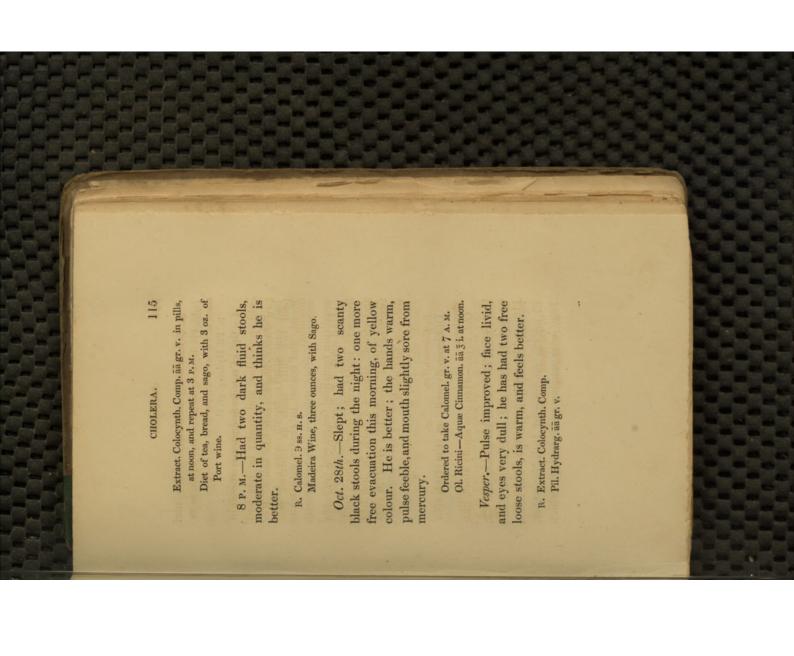
sistence, but black. and moist: since 4 o'clock he has had two free fluid stools, like gruel in confrequent, hands cold, tongue white, cool,

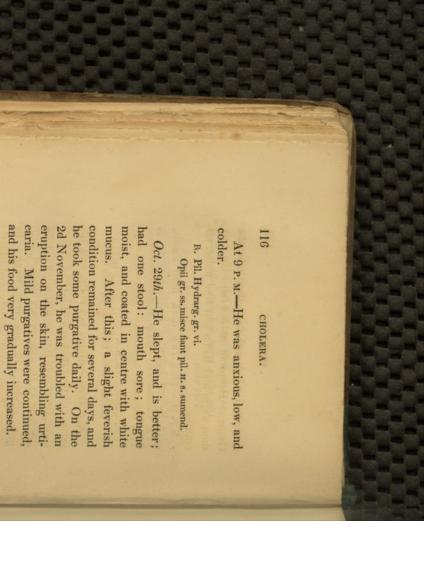
R. Calomel. 9 ss.

Extract. Hyoscyami. gr. vi. in pills H. s.

or had any cramps: hands cold, pulse that last reported, but has not vomited, 110, and he craves anxiously for drink. Oct. 27th.—Had one scanty stool, like

R. Pil. Hydrarg. R. Ol. Ricini 3 i. statim sumend.

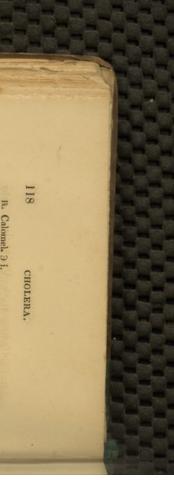




Discharged well on the 10th No vember.

CASE XV.—Peter Mathews, Æt. 23, of middle size, and dark complexion; recently landed from Europe: was taken ill on the morning of 19th November, 1830, with purging and vomiting; which

then warm and had a soft free pulse, no continued when he was admitted into General Hospital, at 5 P. M. He was bile. Pulse 112, and very weak; he Nov. 20th. - Blood not buffy, and the three times, and was purged often during the night; the stools are tinged with suffers from great anxiety and thirst; R. Calomel, 9 i.-Opii gr. i. in pills at 6 A. M. Diet-Tea, and hot Sago with some Brandy. 2. P. M.-No stool or vomiting since the morning. Pulse low and weak; he surface of the cruor is florid; he vomited tongue cool, white, and dry; skin nearly R. Calomel. 9 i.-Extract. Colocynth. Comp. Opii gr. ss. to be taken in pills at 10 r. M. R. Calomel, 9 i.-Opii gr. ss. statim sumend. CHOLERA. is cold, and sinking. V. S. ad lb. iss. 9 88. cramps.



R. Calomel. 9 i.

Ol. Cinnamon. gtt. ii. to be taken in two pills Extract. Colocynth. Comp.—Asafætidæ āā now. Sago and Brandy repeated.

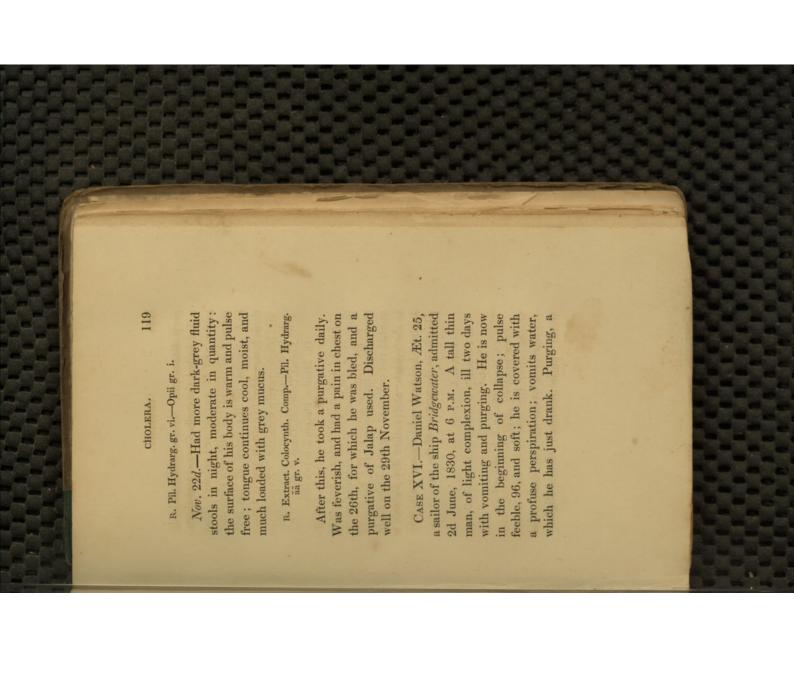
and black, partly feculent. Repeat the pills at 5 and again at 8 o'clock. 5. P. M.—Had five stools, partly watery

culent stools; perspires, and is very faint. R. Pil. Hydrarg. gr. vi.—Opii gr. i. in a pill 10 P. M.—Had ten free, dark, and fe-

Diet—tea, bread, and sago. better; had no stool. Pulse 98 and soft. Nov. 21st.—Slept after 3 A. M. and is

R. Extract. Colocynth. Comp Pil. Hydrarg. aa gr. v. at 6 A. M Ol. Ricini 3 i. at noon.

warm; pulse free and natural. tongue cold, but the extremities are stools, after the oil; feels very weak; Vesper.-Had four free, fluid, dark



three hours ago. had cramps in the soles of his feet cramps at the pit of stomach now, and moist, and of morbid red colour. Has R. Calomel. 9 i. Extract. Colocynth. Comp. gr. vi.

full, doughy, and inelastic; tongue clean,

Ol. Menthæ. Pip. gtt. ii. in two pills.

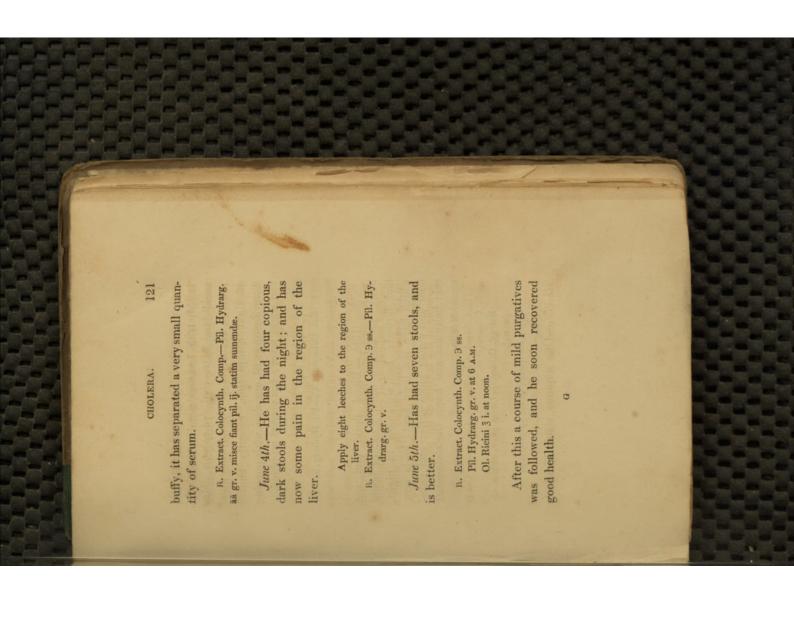
conjee-like fluid, with some pale-grey powder at the bottom of the pan. in the centre, and rather dry; stools a morbid red colour at edges, a little white more free; face flushed; the tongue of purged five times; the circulation is June 3d.—Vomited twice; and was

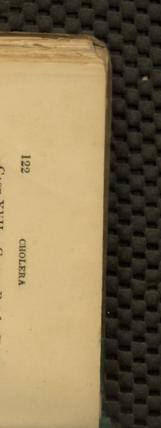
V. S. lb. i.

R. Calomel. 9 i.-Extract. Colocynth. Comp.

Ol. Ricini 5 i. at noon. Ol. Menth. Pip. gtt. ii. in pills at 6 a.m.

stools, and he is better. Blood slightly Vesper.—Has had four dark fluid





Case XVII.—George Patch, Æt. 24, H. M. 16th Lancers, admitted into General Hospital on the 18th November 1830, in the evening. A tall thin man, of light complexion, recently landed from Europe: ill one day, with purging and slight fever; has voided no blood.

V. S. ad lb. iss.

R. Ext. Colocynth. C.-Pil. Hydrarg. aa 9 ss. atim.

Nov. 19th.—Blood florid and not buffy; he fainted when 8 oz. of blood had flowed; had six stools in night, which have not been kept; he is now cool and weak; pulse softer and natural; belly flat and hard, the abdominal muscles tense.

R. Calomel. 9 ss.

Extract. Colocynth. Comp. gr. v. statim su-mend.

Apply six leeches to the epigastrium.

1 P.M.—One copious stool, like bar-

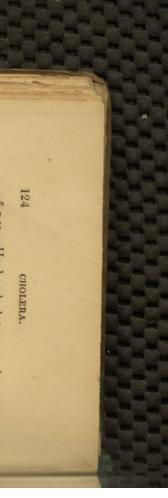
CHOLERA. 123
ley-water; eyes blood-shot, skin hot;
has not vomited. Pulse 92 and free;
face flushed; tongue white, moist, and
warm.
V.S.B.i.

V. S. lb. i.
R. Calomei. 9 ss.—Extract. Colocynth. Comp. gr. v. now.

Vesper.—Fainted after the V. S. The blood is not buffy; he has had two stools. The tongue is cold, moist, and white; pulse weak: he suffers from anxiety, is pale and low; and has the Cholera visage.

B. Calomel. 9 i.—Extract. Colocynth. 9 ss. Opii gr. ½, now, and repeat at 10 o'clock. Nov. 20th.—Two stools during the night, and he feels better; the evacuations are watery and of dark colour; the right eye is still blood-shot, and there is slight morbid heat of skin.

R. Extract. Colocynth. Comp. 9 ss. Pil. Hydrarg. gr. v. at 7 A.M. and repeat at



5 r.m.—He has had two stools, consisting of a dark fluid feculence; and is better.

R. Extract, Colocynth, Comp. Pil. Hydrarg, āā gr. v. now, and repeat at 10 o'clock.

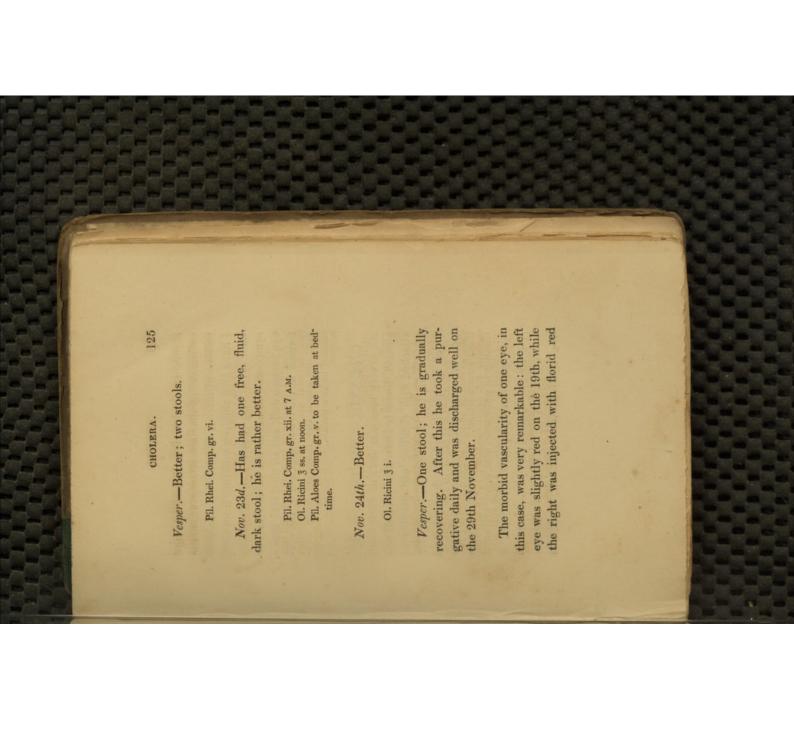
Nov. 21st.—He is improving, and has had several scanty, fluid, dark stools; surface of body warm; but the tongue is cool.

R. Extract. Colocynth. Comp. 9 ss. Pil. Hydrarg. gr. v. at 7 A.M. Ol. Ricini 3 i. at noon.

Vesper .- Much better; three free stools.

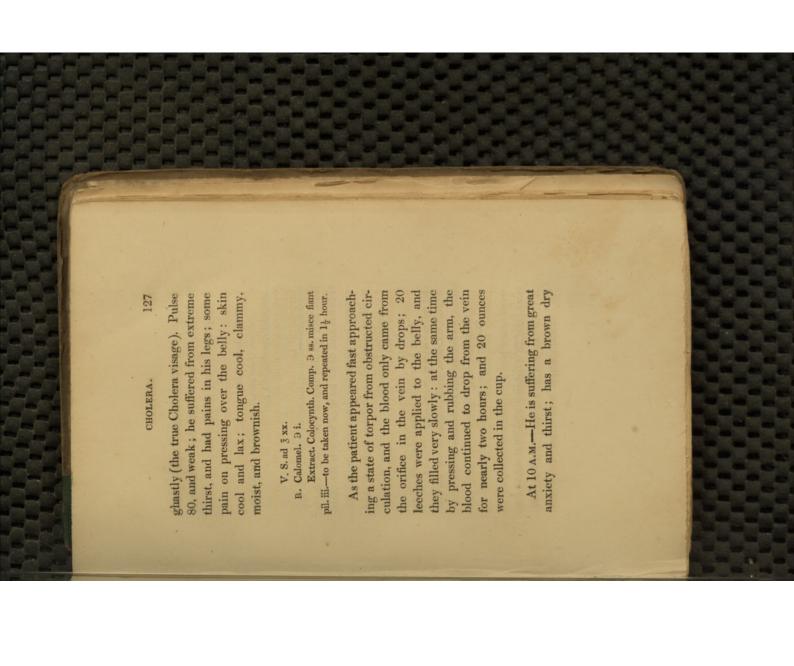
Nov. 22d.—One stool in the night, a whitish mucus, not in large quantity; he is warm and seems better; more arterial congestion of right eye. Pulse soft and free.

R Extract. Colocynth. Comp. Pil. Hydrarg. aa gr. v. at 7 A.M.



CASE XVIII.—John Dempsey, Æt. 20, a very muscular lad, of dark complexion, recently arrived in Bengal, was attacked with vomiting and purging at 10 a.m. on the 26th March, 1826; for which he was bled from the arm, and took two small pills; but does not know their composition. His complaints continuing to get worse, and, being attended with other bad symptoms of Cholera, he was sent to General Hospital, where he arrived at 7 a.m. on the 27th March; his countenance was then sunk and

cuated before death.



been purged since admission. tongue; the extremities are cold; pulse 110 and feeble; he has not vomited or

R. Ol. Ricini 5 iss.

now, and repeated at 1 P.M. Aquæ Cinnamon. 5 iv.-misce; to be taken

neither vomited, nor been purged since siness on pressing over the belly; has he came to hospital. brown and dry: he has very little unealow and feeble; the feet are cold, tongue 4 P.M-Pulse more distinct, but still

hot poultice after their removal. Apply 30 leeches to the belly, and a large

R. Ol. Croton. gtt. iv.

Ol. Ricini,-Ol. Terebinth.

Magnesiæ Sulphatis aa 5 i.

Decoct. Oryzæ. lb. i. misce, fiant enema.

grey stools. reported; has had two, copious, fluid, 6 P.M.—Much in the same state as last CHOLERA. 129

Gapiat Ol. Ricini 3 iss. statim.

Directed to drink 3 oz. of thin and hot sago afterwards.

Apply sinapisms to the feet.

March 28th.—Appears better, the anxiety and restlessness have ceased, the eyes are less sunk, and he has no pain if the belly be pressed; the extremities are warm, and pulse somewhat revived, but still low and soft. The tongue continues brown and dry, and he suffers from extreme thirst. Has had two copious, grey, feculent, fluid stools.

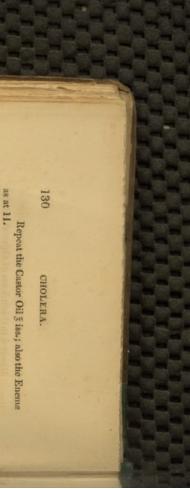
R. Ol. Ricini 3 iss.

Aquæ Cinnamon. 3 ss.—misce; to be taken at 6 A.M. and repeated at 11.

An Enema, such as ordered at \$ P.M. yester-day, is to be given at 6 A.M. and repeated at 11.

Vesper.—He had two, copious, loose, grey stools; skin warm, tongue moist and brown: pulse 110 and soft. The Cholera visage is no longer present.

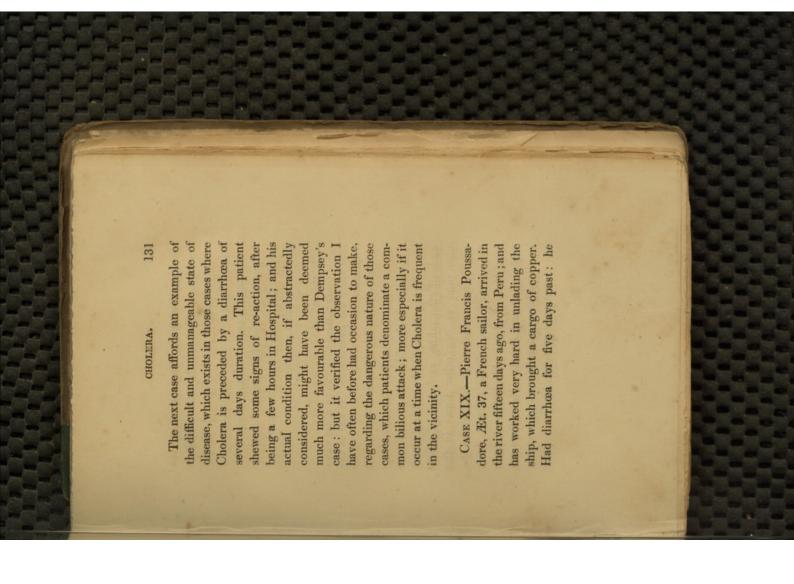
6 3



bright bilious yellow colour. grey mucus; had three copious stools of but still rather dry, and little coated with ful: pulse 98 and soft; tongue cleaner, March 29th.—He is easy and cheer-

Tepid Bath. Enema as before, to be given at noon. Ol. Ricini 3 i. at 6 A.M.

existence of an inflammatory condition, and low; the pain on pressure over man was apparently so much oppressed and required purgatives to be repeated treatment. for which depletion was the only proper brown tongue afterwards: shewed the the belly, on admission; and the dry daily, until the tongue became clean. hospital on 17th April. Although this He recovered, and was discharged from He remained feverish for several days;



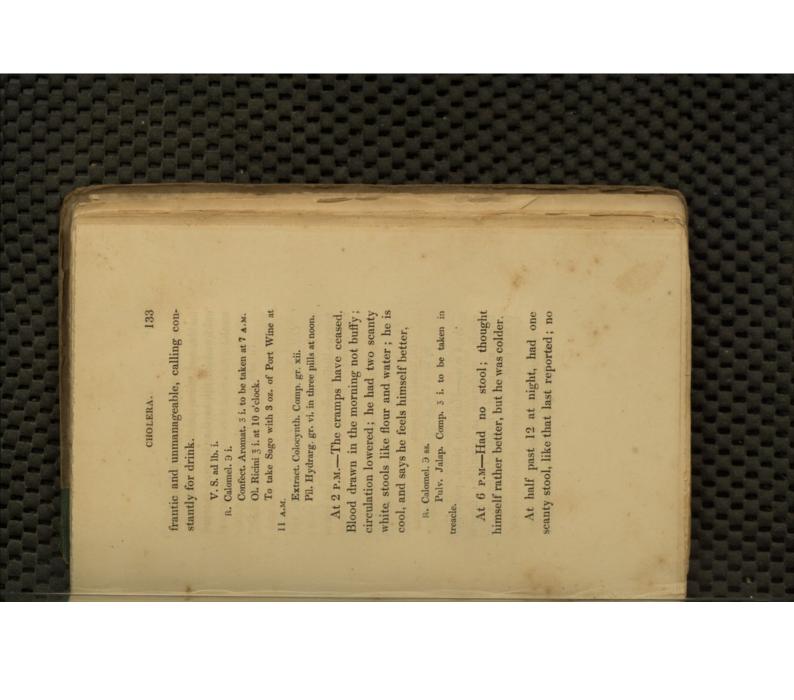
was seized with vomiting and cramps in his legs, at noon on the 24th October, and was brought to the General Hospital at 10 P.M.; he was then in the act of vomiting, his pulse feeble, surface cold, tongue cool, skin of his hands shrivelled, respiration hurried, and voice weak and pectoral: thirst extreme.

R. Calomel. 9 i.

Confect. Aromat. 5 i. To be mixed with a little treacle and given directly. To take in two hours after.

Ol. Ricini—Aquæ Cinnamon. ãa 3 i.

October 25th.—No sleep; and no stool during the night: he vomited about an hour after taking each dose of medicine, and at two other times in the night; has occasionally cramps in the fingers and toes. Pulse 92 and free; face little flushed; skin warm; tongue rather dry and brown. He suffers exceedingly from anxiety and restlessness; voice continues pectoral, and he is quite



feeble, and voice pectoral; skin nearly cold, and he appears anxious, low, and weak.

To take Sago and three ounces of Port

return of cramp, but the pulse is very

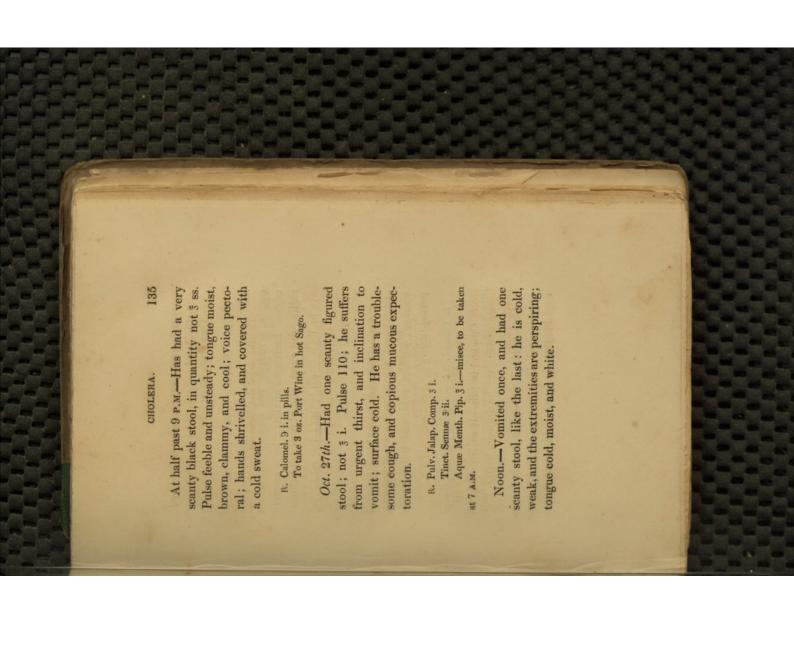
To take Sago and three ounces of Port

Oct. 26th.—Slept for three hours, and says he feels much better; has no pain; tongue little furred and brown, but warm and moist.

R. Extract. Colocynth. Comp.
Calomel. āā gr. v. at 6 A.M. and repeat at 10 o'clock.
Ol. Ricini 3 i. at noon.
To have 3 oz. of Port Wine in hot Sago.

At 4 P.M.—Had two, black, paste-like stools; moderate in quantity; tongue brown and moist: he appears better, but is still cold.

R. Extract. Colocynth. Comp. 9 ss.
Pil. Hydrarg. gr. v. in three pills now.



R. Ol. Ricini 3 i. Habeat Enema Purg. statim. Cum Tinct. Sennæ 3 ii.

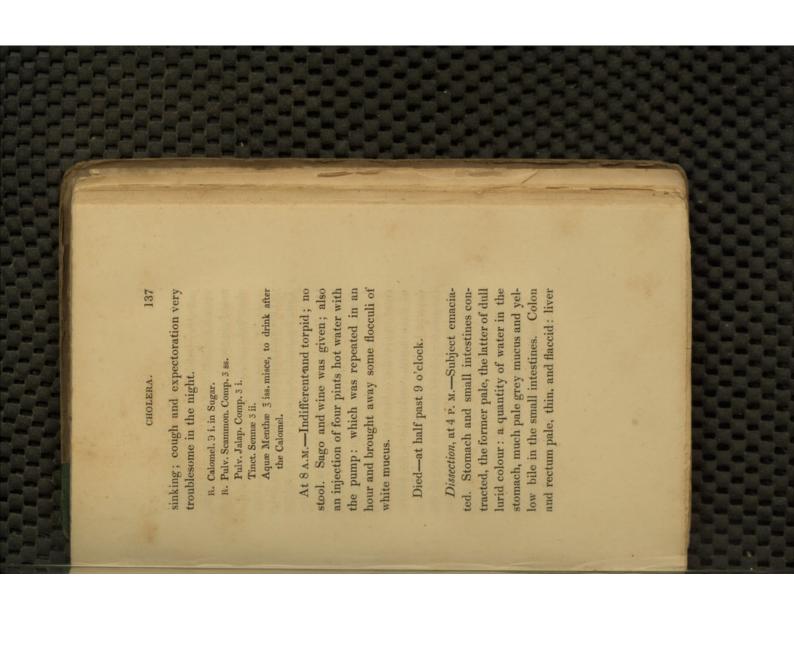
calling for water, and at times delirious, edges. Increased anxiety; he is eagerly centre, a narrow red clean streak at its ma: tongue cold, very brown in the 3 P.M.—Nothing voided but the ene-

R. Calomel. — Pulv. — Scammon. Comp. (Ph. To be taken in treacle. Ed.) āā 9 i.

stool; says he is better, but appears perceptible. weaker; surface cold, and pulse hardly 8 P.M.—Had one scanty black mucous

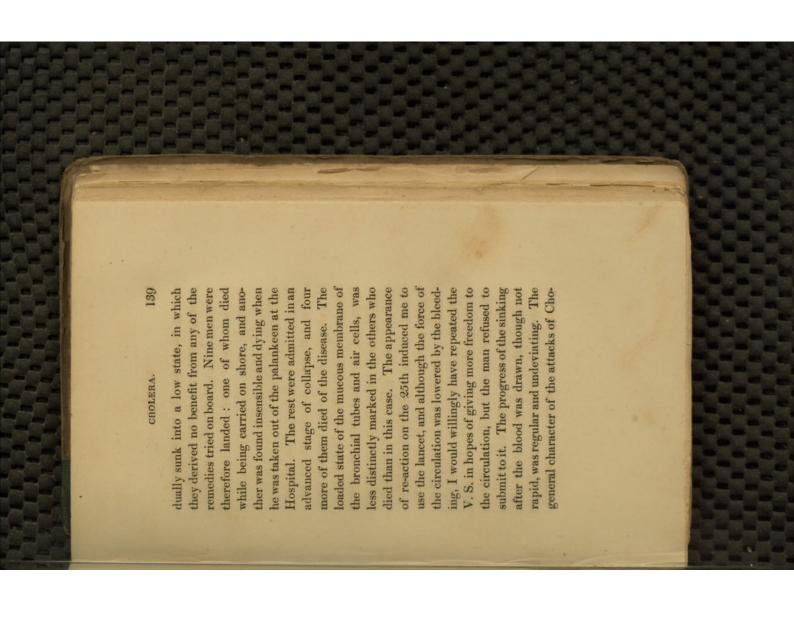
R. Calomel, 9 ss.—Extract. Colocynth. Comp. Opii. gr. 1/2 in pills.-1/2 oz. Brandy in hot Sago.

ceptible: he is quite cold, and slowly scanty stool, like tar; pulse hardly per-Oct. 28th, 5 A.M.—He has had one

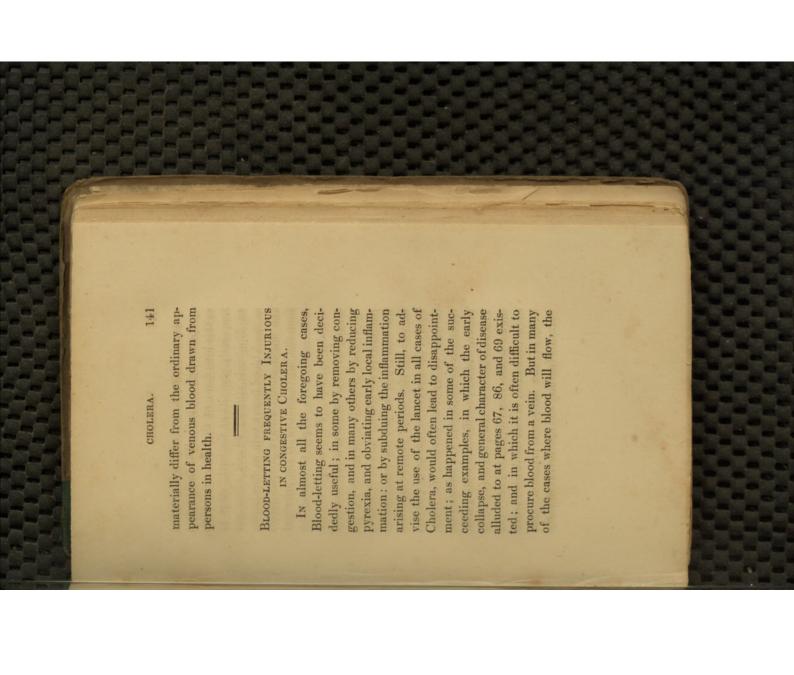


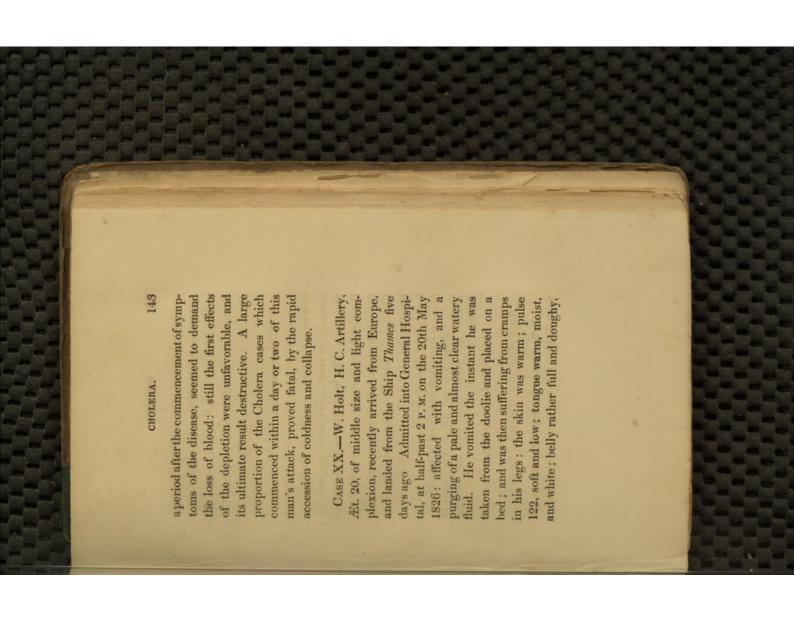
slightly enlarged, soft, and a few small pale-grey patches on its surface. Much venous conjection of the lungs, and thick mucus in the air tubes: no other disease observed.

came suddenly much more purged before mid-day, on the 24th October, and graascribed to drinking the Ganges water, the men without any evident cause beon shore once or oftener. Several of when heated at work: they had all been crew suffered from diarrhoa; which was the greater part of that time many of the days in landing the copper, and during of Frenchmen, worked hard for fifteen rived in October. Her crew, consisting from thence to Calcutta, where she ar-Peru; and brought a cargo of copper France, having first made the voyage to ble: she was twenty-two months from on board that vessel was most lamenta-Victorine, and the history of the Cholera This man belonged to the French Ship



At pages 64 and 65, I have endeavoured to point out the general character of Cholera, attended with febrile and inflammatory symptoms, such as existed in the cases that have been detailed; in which, all the worst appearances are usually moderated by the use of the lancet; and cured by a system of depletion, regulated according to the severity of the symptoms. In the foregoing cases, wherever the state of the blood which was drawn is merely reported not buffy, it is to be understood that there was about the usual quantity of serum separated, and that the surface of the cruor did not







V. S. ad 3 xx. statim.

illness commenced at 10 A.M. with a simultaneous vomiting and purging, for which he took medicine in the Fort.

Twelve ounces of blood flowed in a stream; the rest was obtained by pressing the arm. The vomiting recurred while the blood was flowing: at the same time the pulse sunk, and became imperceptible, and could never be distinctly felt afterwards.

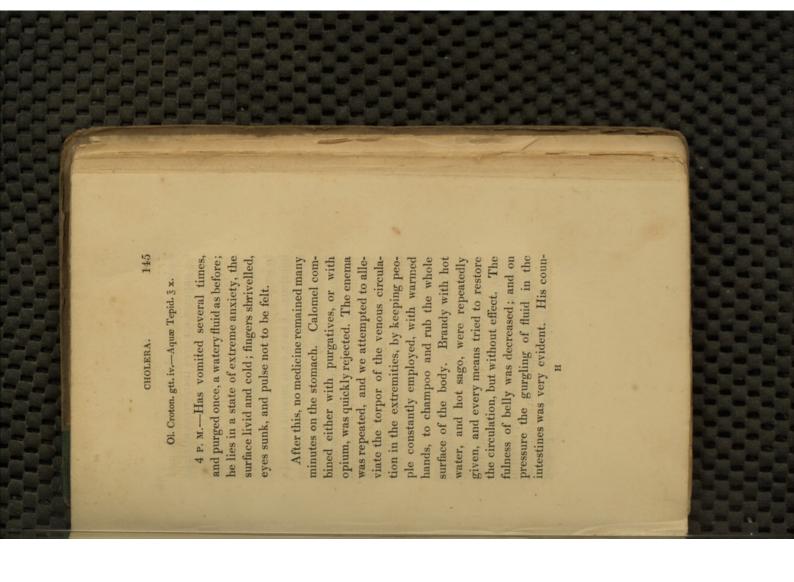
A large blister was applied to the belly.

Calomel 9 i. was put on the tongue in powder; and washed down with the following mixture.

Tinct. Opii 3 i.—Tinct. Sennæ. 3 iv.

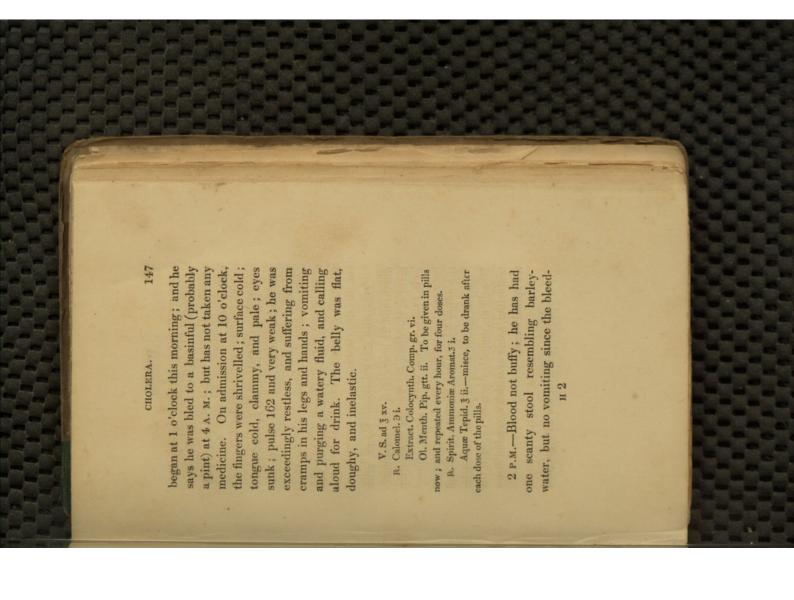
An enema was ordered, composed of

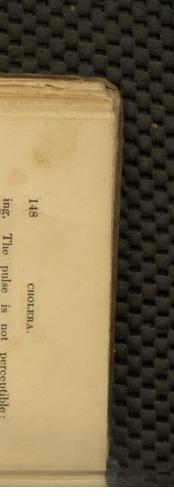
Ol. Terebinth.—Ol. Ricini—Magnesiæ Sulph. āā 3 ii.



o'clock. He died at half-past 9. It was V. S. would be beneficial. seemed to afford reasonable hope that when pressed, and the existing spasms, surface, with morbid sensibility of belly but in this instance, the warmth of stage of pure congestive or blue Cholera: of blood decidedly did harm, in the early similar description, where the abstraction injurious. I have seen several cases of a to leave no doubt that the treatment was mediately on the abstraction of blood, as sink so rapidly, and the pulse fail so imexceedingly distressing to see a patient his expressions were incoherent at eight tenance remained ghastly and sunk, and

Case XXI.—Thos. Marren, Æt. 50, a sailor of the Ship Bridgewater. Admitted into General Hospital, 3d June 1830, at 10 a.m. A large and muscular man, of dark complexion: was taken ill at 8 o'clock last night with cramps in his legs and belly. Vomiting and purging





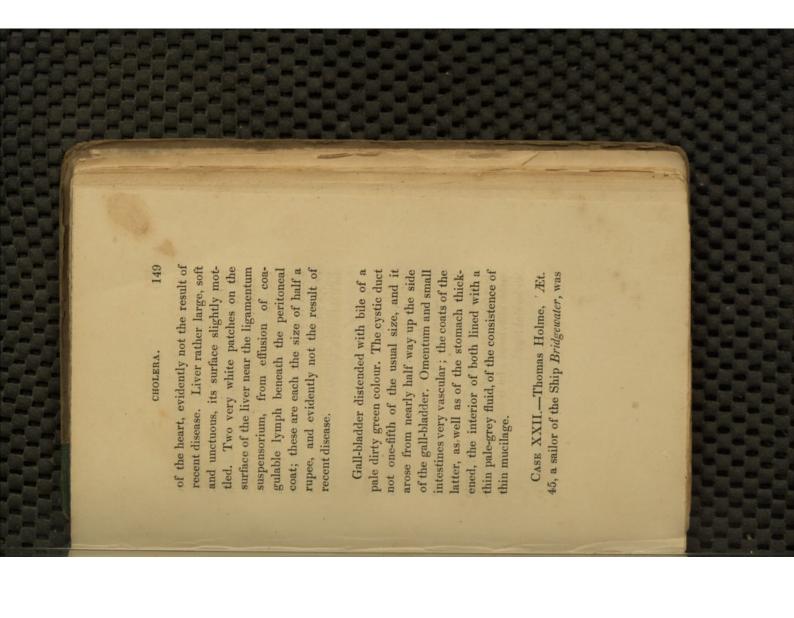
ing, The pulse is not perceptible; otherwise he remains much in the same state; cramps at times violent; extremities cold.

A hot-water blister was applied to the scrobiculus cordis, and another to the centre of the spine.

No favourable symptom occurred, and he died at 5 P.M.

Dissection. — Fourteen hours after death, and 21 hours after the commencement of the disease. Venous congestion of the brain, some milky serum effused between the arachnoid and pia mater, at the upper part of the hemispheres;—and 5 iiss. of serum in each lateral ventricle. Nearly an ounce of serum beneath the tentorium, some of which extended down the spinal canal.

An opaque patch on the anterior part



admitted into General Hospital at noon on the 8th June, 1830. A stout man, of light complexion; has been drinking spirits intemperately: seized with vomiting and purging, and cramps in the legs at 4 A.M. These symptoms continue, with a flushed face, and pain in stomach and right side. Pulse frequent and full, body warm, feet cold; tongue white, moist, clammy, and warm.

V. S. ad. lb. iss.

R. Calomel. 9 i.—Extract. Colocynth. Comp. 9 ss.

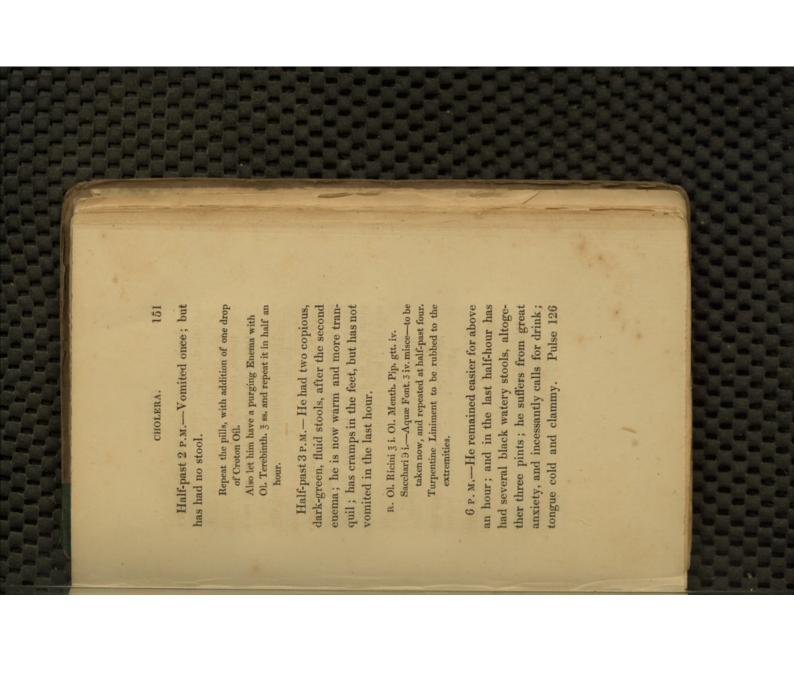
Ol. Cinnamon, gtt. iv. in three pills. To be taken now.

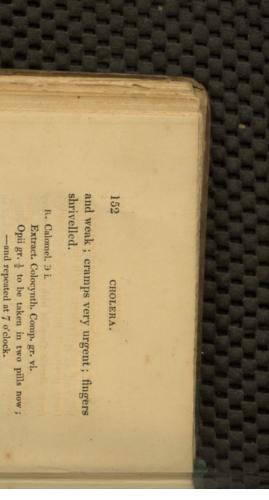
R. Spt. Ammon. Aromat. 5 i.

Aquæ Tepid. 3 i. misce,—to drink after the pills.

Half past 1 P.M.—The bleeding made him faint: blood buffy, and much cupped, pain alleviated; he is cold and appears to be sinking.

Pills repeated. Hot brandy and water to given.





3 iv. Sago, and Brandy 3 i. to be drank after -and repeated at 7 o'clock.

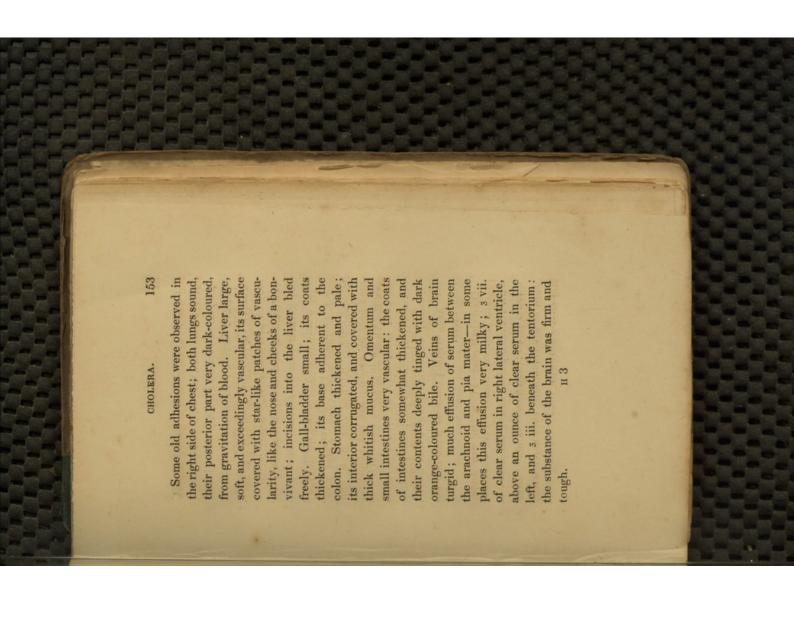
says his "head is light." same sort as above; has not vomited; imperceptible; he had one stool, the and becoming more cold. Pulse now 10. P.M.—Has been gradually sinking,

Also let him have Spt. Ammon. Aromat. 5 Repeat the pills as at 6 P.M.

Aquæ Tepid. 3 ii.-to be drank after the

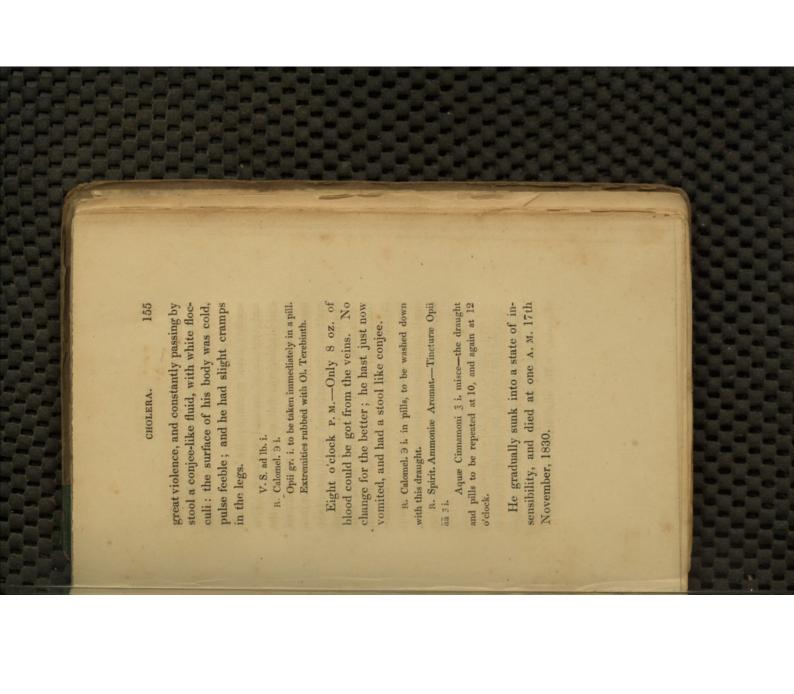
Died half-past 11 P. M. 8th June,

and face very white. death. Subject stout; eyes much sunk, Dissection .- Fourteen hours after



of castor oil, which purged him freely. November. He was discharged well on the 15th of colocynth with blue pill; and one dose night, and the blood was not buffy. In the next three days, he took two doses in the belly. Was bled to lb. iss. that an irregular and dissipated manner for Ill five days with head-ache, and griping the evening of 11th November, 1830. the greater part of several weeks past. may be presumed, he has been living in four years in India, recently arrived from Was admitted into General Hospital on 89th to the 3d foot; and therefore it Madras: having volunteered from H.M. 23, a stout man, of dark complexion; CASE XXIII. - James McCabe, Æt.

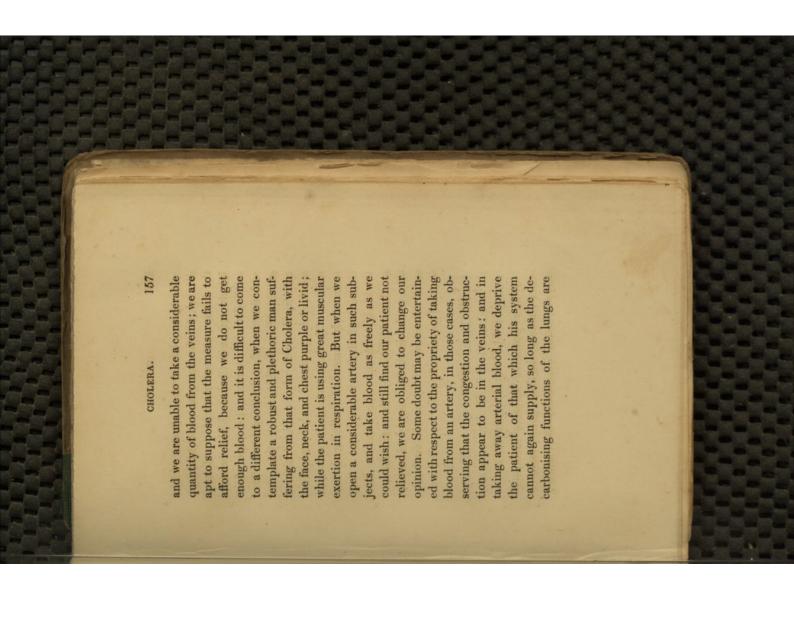
This man was seized on the next day with vomiting, after eating his dinner at three o'clock; and was sent to the Hospital at 6 o'clock r. m. on the 16th November. He was then vomiting with



small intestines in the same state, mesenteric glands enlarged, tery, and mesocolon, highly vascular; in the duodenum. Omentum, mesencontaining much whey-like fluid, and thick white mucus. There was no bile enormously distended with flatus, and mation. Stomach and small intestines membrane, apparently not of recent forexterior covered with an adventitious gall-bladder was full of green bile; its and texture of natural softness. The smaller than common; its edge thin, Liver appeared healthy, and rather the back part and root of the lungs. death. Much engorgement of blood at Dissection .- Fourteen hours after

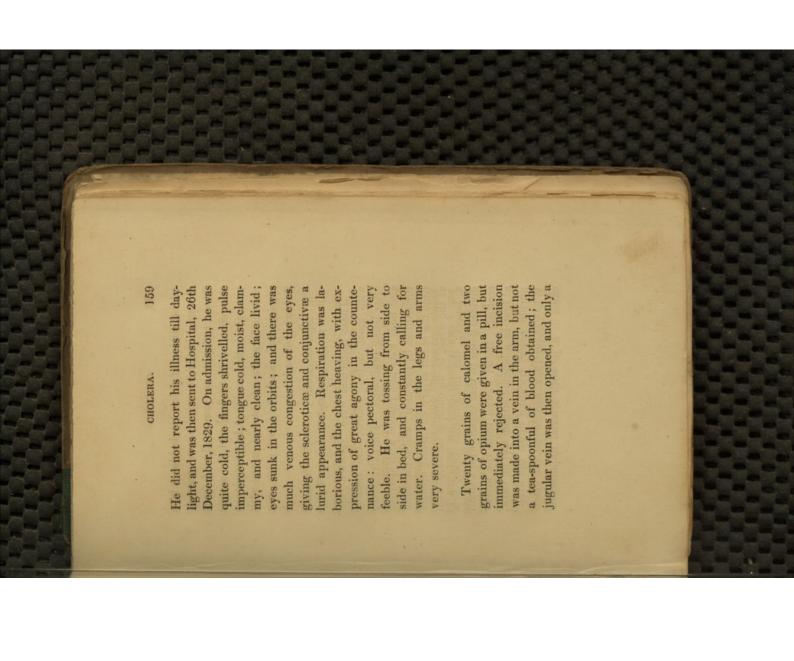
ARTERIOTOMY IN CHOLERA.

WHEN plethoric subjects labouring under Cholera, fall early into a state of collapse, with obstructed circulation;



arrested: either in consequence of the disorder of the nervous system generally, or by means of a morbid coating of viscid mucus in the bronchial tubes and air cells. We are so apt to speak of the calorific and decarbonising functions of the system, as allied to each other, that perhaps I may now be ascribing too much to the latter; when I would speak of the failure of both, as among the most prominent phenomena of declining vitality, in cases of Cholera with collapse.

Case XXIV.—William Griffiths, a Gunner in the Artillery, aged 28, a stout muscular man, four years in India, invalided on account of the loss of an arm; and recently sent from his battalion to Fort William, on his way to Europe. Was taken ill with Cholera soon after midnight; the first symptoms were vomiting and purging, followed by dreadful thirst, cramps in the legs, coldness of the whole surface, and extreme anxiety.

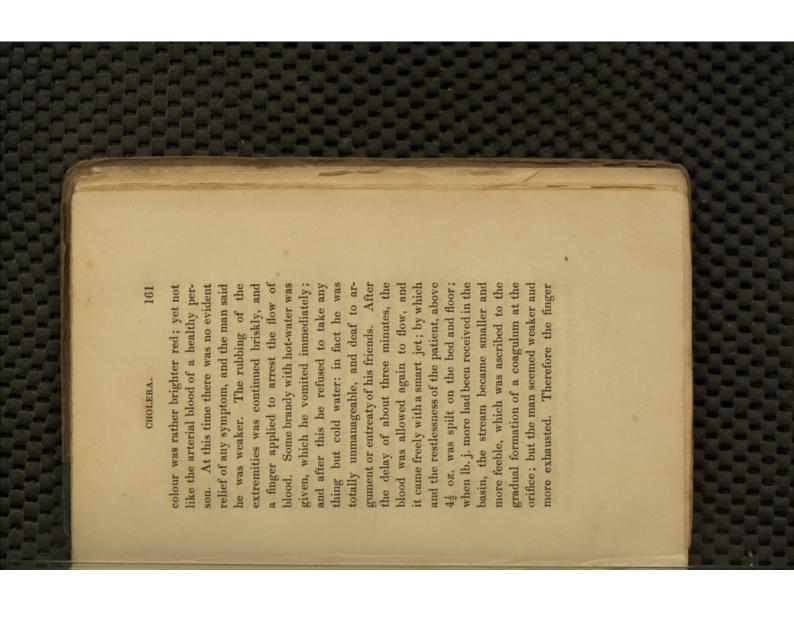


CHOLERA.

sugar, and washed down with the following draught: to take 20 grains of calomel mixed with toms continuing unabated, he was ordered the veins having failed, and the symptreacle, issued slowly from thence. These attempts to procure blood from trivial oozing of thick black blood, like

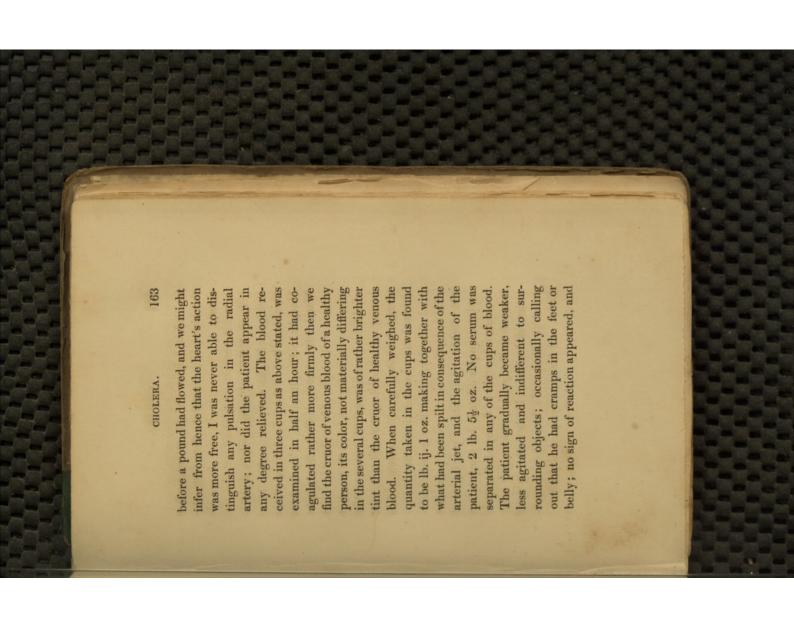
R. Aquæ Cinnamon. 3 iss.-Spirit Ammoniæ Aromat. Tinct. Opii aa 5 i. misce.

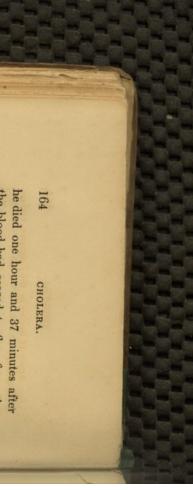
came in a jet with arterial impulse, its at first in a languid stream and of dark. scalpel. Blood flowed from the artery When about 13oz. had flowed, the blood purple color, trickling down the wrist. divided down to that vessel, with a small a lancet; the integuments being first at the wrist, by an oblique incision with time the radial artery was freely opened turpentine, by four men; and at the same and body were now rubbed with spirit of after being swallowed. The extremities with most violent efforts, the instant These medicines were vomited up,



was again applied to the artery for five minutes. The patient was now evidently more purple in the face, his breathing more laborious, and he appeared more feeble in tossing about in bed: the voice remained pectoral, but much weaker than on his arrival at the Hospital about one hour and a quarter ago. The principal distress appeared as this time to depend on the stagnation of venous blood, and imperfect action of the lungs. The artery was again let loose; but the blood now flowed very feebly, and only 3 ounces more could be procured.

During the above treatment, this patient continued sinking; but I could not assert, that his dissolution took place more quickly than I have frequently seen in patients admitted in the same stage of disease, who had the calomel and opium treatment, with stimulants, and who were not bled. Although the blood sprung from the arm in a smart jet





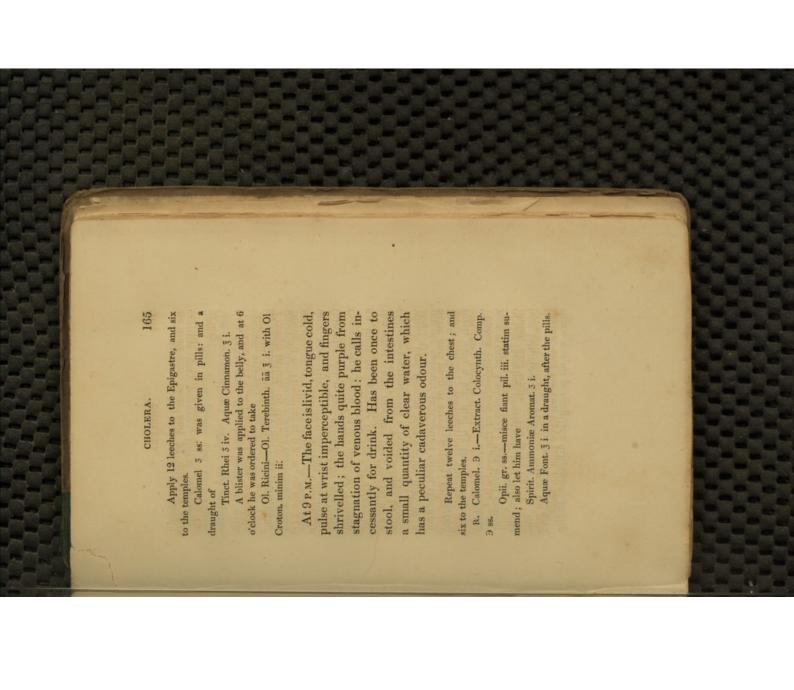
cased to flow from the artery.

Case XXV.—Pierre Louis, a middle-size lad, of light complexion, Æt. 18, a French sailor, of the Ship L'Indus; was brought to Hospital at 5 P. M. on the 21st March 1828, having suffered from slight fever for six days. He began to vomit yesterday morning, and was 20 times at stool since: evacuations like water. Vomiting ceased during the night, but returned this morning, since which he has vomited three or four times, but had no stool this day, Has now severe headache and pain at scrob. cordis; pulse 108

dicine, and for two days past no food.

moist, and white. He is suffering from dreadful thirst. He has taken no me-

and feeble; respiration panting and anxious; pupils dilated, bu there is no venous congestion of the eye-balls; snr-face of the body cool; the tongue cold,

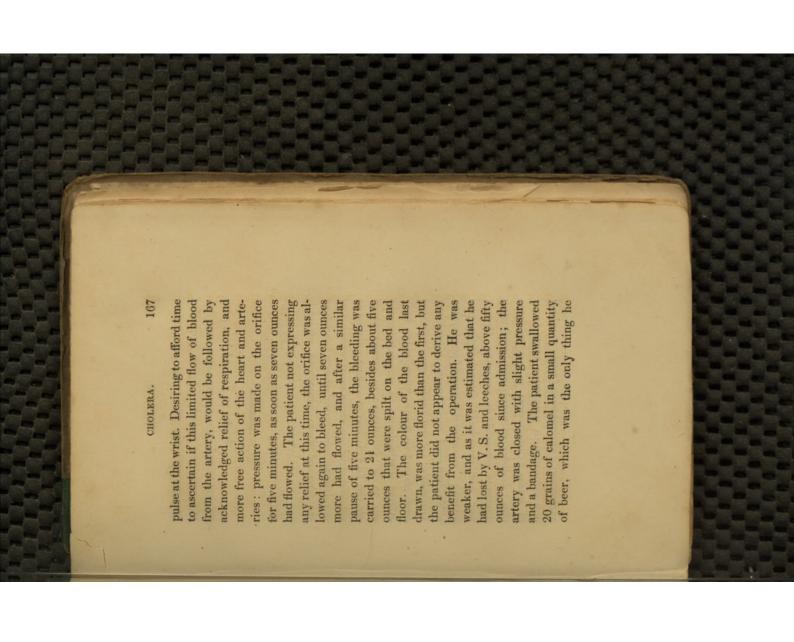


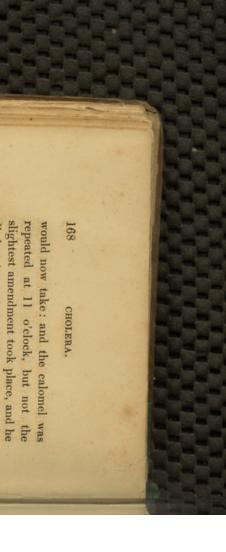
there was no perceptible difference in the

was strong and steady: the livid colour of the face had decreased, and there was less laborious heaving of the chest; but

ounces had flowed, the arterial impulse

the coldness of surface remained, and

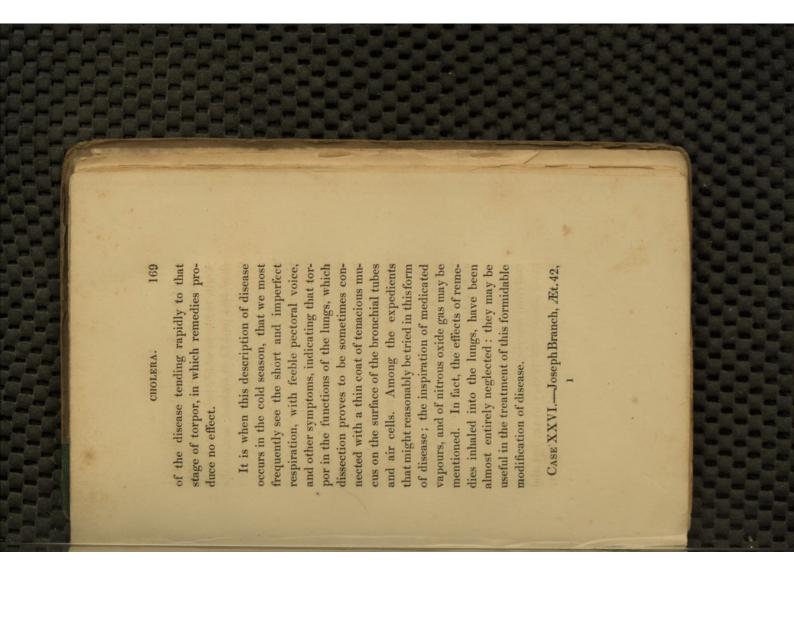




THE LOW FORM OF CHOLERA WITH TENDENCY TO COLLAPSE.

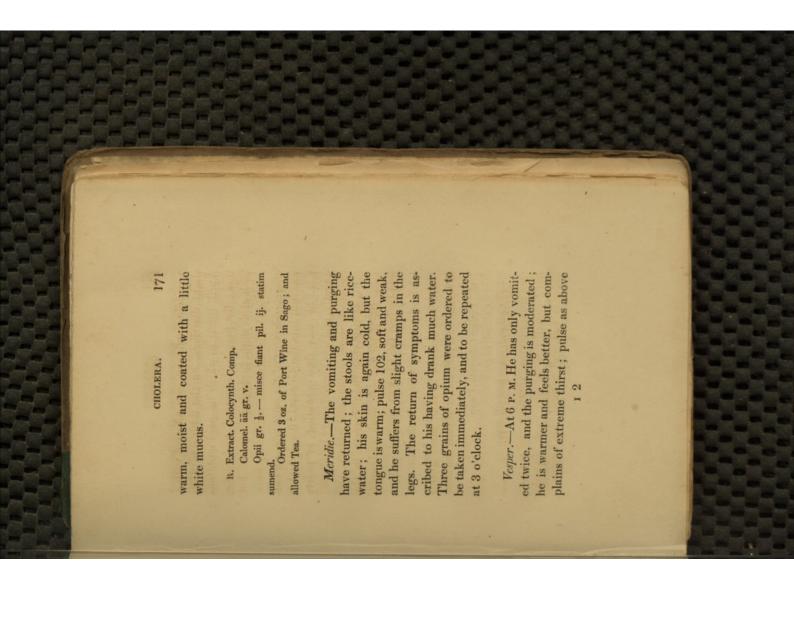
died at & past 12 at night.

frequent watery evacuations; the course early failure of vital energy, seems in many cases connected with profuse and from this description of Cholera; and and inflammatory symptoms are not usually observed in persons suffering careful and judicious treatment. Febrile succeed in saving our patients, by a rous experiment, which has often done commencement of collapse is a dangeharm in such cases; but we frequently aided efforts of nature. V. S. at the to have no chance of recovery by the unof Cholera, from which the patient seems amples of a most formidable description In the succeeding cases, we have ex-



He was ordered to take three grains of opium in a pill, and to repeat the dose at 10 P.M.

April 27th—At 6 A.M. He is now free from cramps, vomiting and purging have ceased; he is very weak, but the pulse is soft and natural, his tongue is



grains of opium dissolved in half an ounce of tincture of senna, with one ounce of cinnamon water, and a drachm of Spirit. Ætheris Nitrosi.

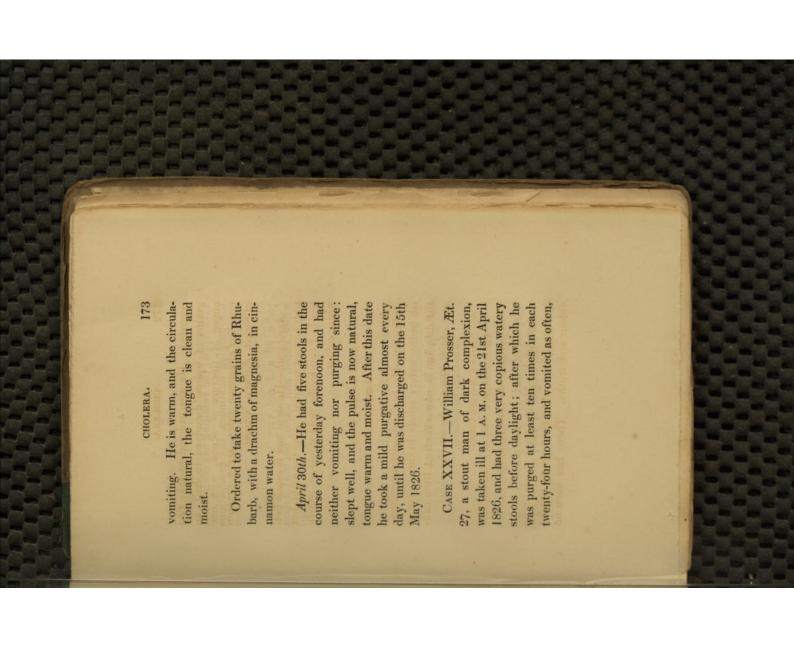
April 28th—He slept and is much better; has not vomited during the night, but has had two frothy fluid stools of nearly

R. Extract Colocynth. Comp. Calomel. āā gr. v. ter die. white colour.

Vesper.—He has had several yellowish frothy watery stools in the course of the day, and is now suffering from nausea, and inclination to vomit.

R: Extract Colocynth. Comp.
Calomel. āā gr. v.
Opii gr. i. misce fant pil. statim.

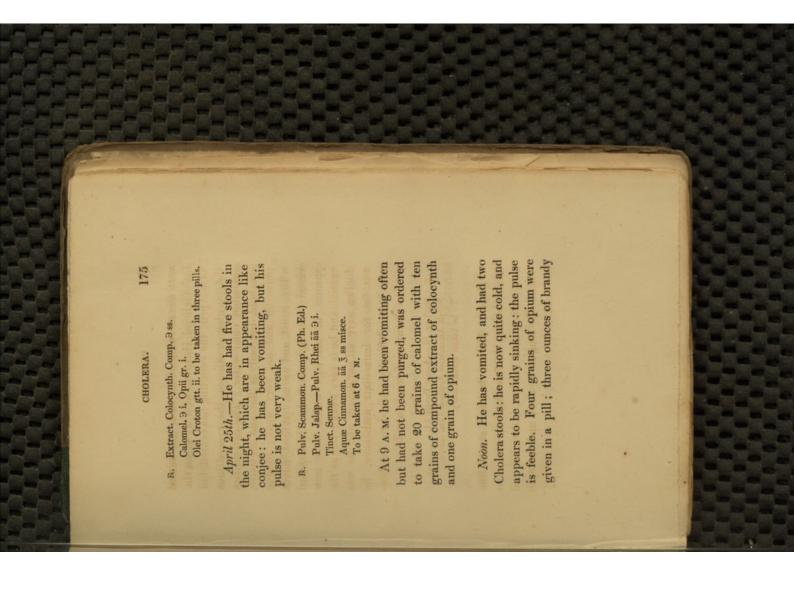
April 29th.—He had three stools in the course of the night; they are of a light colour and frothy. There has been no



until the morning of the 23d. Admitted into General Hospital at 9 a. m. on the 24th April; the vomiting has ceased, but the purging continues, the evacuations resemble clear water. The extremities are cold, his belly is flat and inelastic, pulse 96 and not very weak; tongue white, moist, and warm; but the Cholera visage is strongly marked. He has had spasms in his legs which have now ceased, and he is very weak; but as the doolies were all employed, and he was anxious for immediate assistance, he with some difficulty walked to the hospital, a distance of nearly a mile.

R. Opii gr. iii.—Aquæ Fontis 5 i. Spirit Ammoniæ Aromat. 5 iss. misce. To be taken immediately.

Vesper. He has had two stools, like barley-water; is free from spasms, but very thirsty and restless, pulse 106 and weak: the tongue is cool, and the eyes are sunk.



were mixed with six ounces of hot water, and small quantities frequently taken.

At 2 o'clock he remained very low and weak, therefore 3 ounces of port wine were ordered, in hot sago.

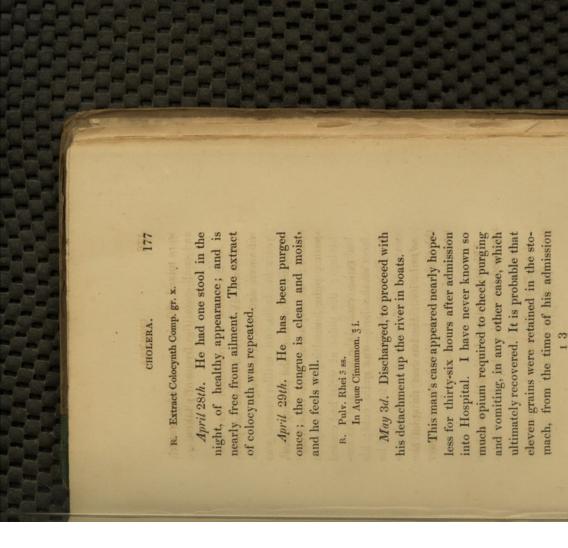
Vesper. Vomiting and purging have ceased; he is warm, and free from spasms, pulse low.

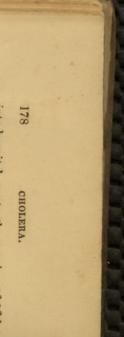
R. Extract. Colocynth. Comp. Calomel. āā gr. v.—Opii gr! i. To be taken in pills.

April 26th. He has had no stool in the night; appears much better, and the warmth of surface continues.

The pills ordered last night, are to be repeated three times a day.

April 27th. He has had one natural stool; the gums are slightly sore.



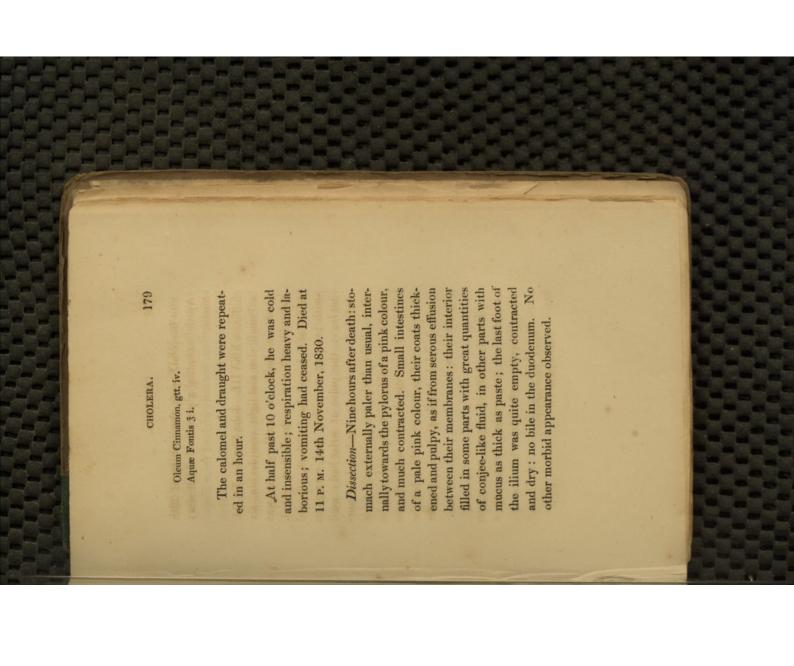


into hospital, up to the evening of 26th April, including a period of about sixty hours.

Case XXVIII. John Simms, Æt. 24, of small size and light complexion, six years in India, an artillery-man, was taken ill at 7 p. m. on the Battery guard, and sent to hospital at 9 o'clock, affected with purging, vomiting, and cramps in his legs: the pulse at wrist had ceased before he reached the ward, and the surface of the body was quite cold; his tongue was cold, voice pectoral, and he was suffering from thirst to such a degree as to be indifferent to everything but the desire to drink, hardly giving any answer to questions.

Twenty grains of calomel were given in powder, and washed down with a draught composed of

Spirit. Ætheris Sulphuric. Tinct. Opii āā 3 i.



ber 1830, he was affected with a purgstrength. At 9 P. M. on the 27th Octowhen some friends asked how he was, evening before the attack of Cholera, mild purgative medicine, and observing remained in the course of a tardy convabled from the arm, and leeches were rering the treatment he was twice largely in Bengal: the constipation attending cholic, within a few weeks after landing constitution, recently arrived from Engillness, that he really felt an increase of he said this was the first day since his gaining strength so slowly, that on the the greatest caution as to his food, but lescence for six days more; using little large enemas given with the pump. He struction of the bowels was removed by various purgatives had failed, the obpeatedly applied to his belly. After this disease was most obstinate, and duland, had a severe attack of spasmodic years of age, of slight make and delicate Case XXIX.—A medical man, 26

present vomiting, and purged incessantly, and suffers from distressing thirst. Pulse 106, and hardly perceptible; surface of the body as well as the tongue cold.

R. Calomel. 9 i.

Opii gr. ii. misce fiant pil. ii. statim sumendae.

Apply a blister to the scrobiculus cordis.

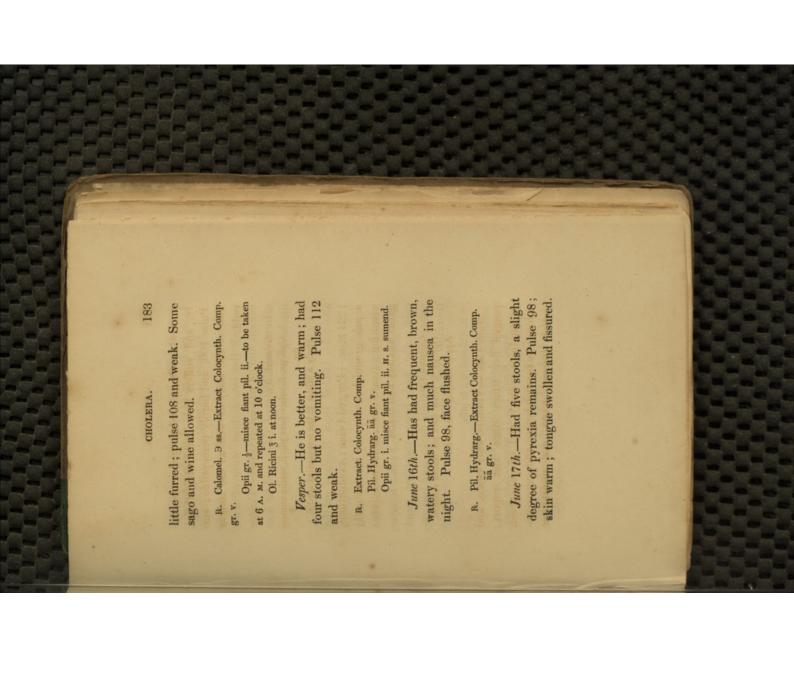
11 P. M.—Purged twice; evacuations, a pale greenish water: he is constantly vomiting; tongue cold, moist, and clean; great anxiety and thirst.

R. Calomel. 3 ss.

Opii gr. ii. misce fiant pil. statim sumend.

Apply Sinapisms to the feet.

June 15th.—Vomited only twice, and purged five times since last report; evacuations watery, and of pale-green colour: he is much better, and quite composed; tongue warm and moist, but



R. Extract Colocynth. Comp. Ol Ricini 3 i. at noon. Pil. Hydrarg. aa gr. vi. in pills, at 6 a. M.

discharged well on the 20th June. oil was administered daily, and he was colour, and he was much better. Castor purged, the evacuations were of dark By these medicines he was freely

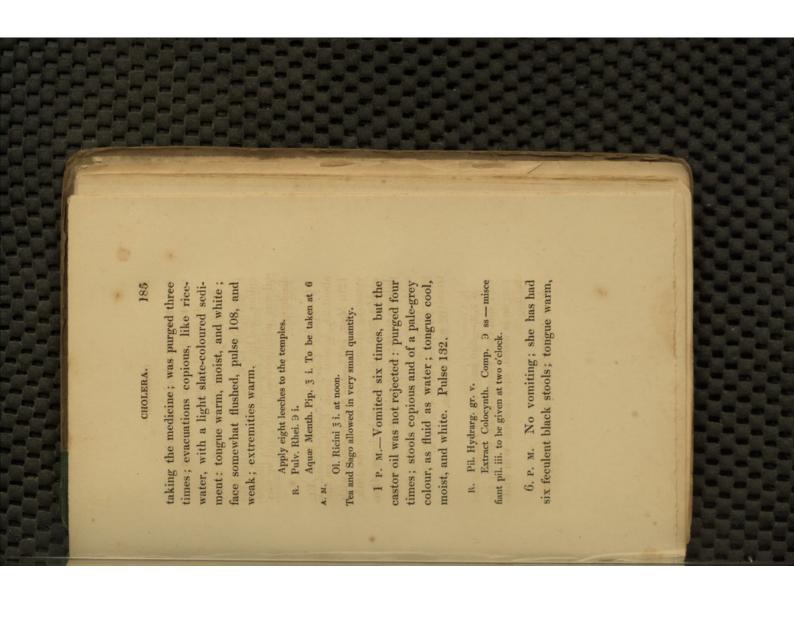
tremities were cold. cold; she had been vomiting, and purged violently since dark; and her expulse was then 104 and weak; tongue when I first saw her, at 11 P. M. Her vomiting almost every day till the 18th, about 24, landed from England on the 12th May, 1827, and was troubled with CASE XXXI.-Mrs. Ann Holt, Æt.

B. Calomel. 9 i. in pills.

R. Opii. gr. ii.—Spirit. Lavand. Comp. Spirit. Ammoniæ Aromat, aa 5 i.

after the pills. Aquæ Menth. Pip. 3 i. misce,—to be drank

May 19th.-She has not vomited since



CHOLERA.

and very much loaded with white mucus.

R. Ol. Ricini 3 i.—Tinct. Opii gtt. v.

Half-past 10 P. M. She vomited the oil: had two, copious, watery, bronze-coloured stools. Tongue warm, moist, and white.

R. Extract. Colocynth. Comp.—Calomel. āā gr. v.

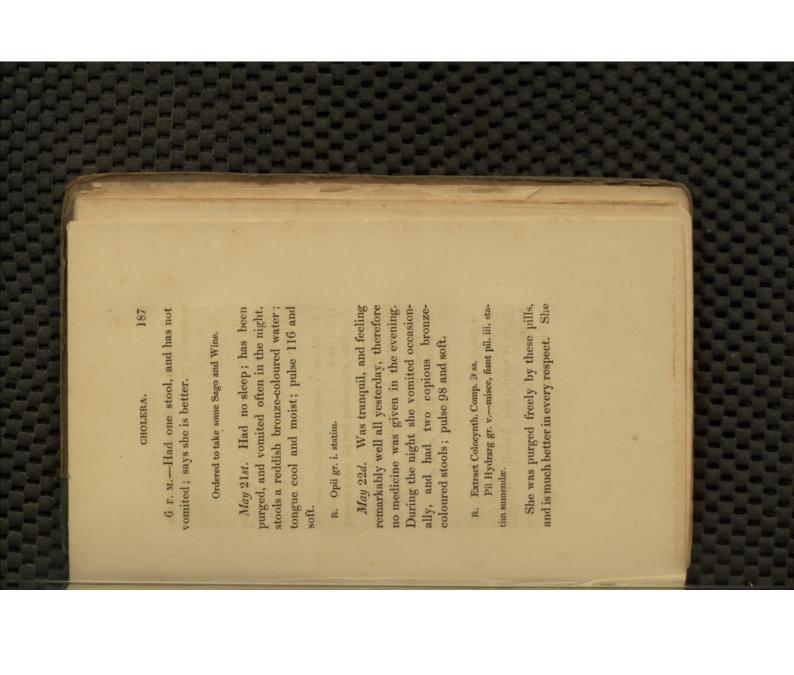
Opii. gr. i.-misce fiant pil. statim sumend.

May 20th. Slept, and had one green bilious stool; no vomiting.

R. Extract Colocynth Comp.
Pil. Hydrarg. aa gr. v. at 6 a. m.
Ol. Ricini 3 i. at noon.

4 P.M.—She has vomited the pills and oil; had two watery black stools; the tongue is warm, and loaded wth white mucus.

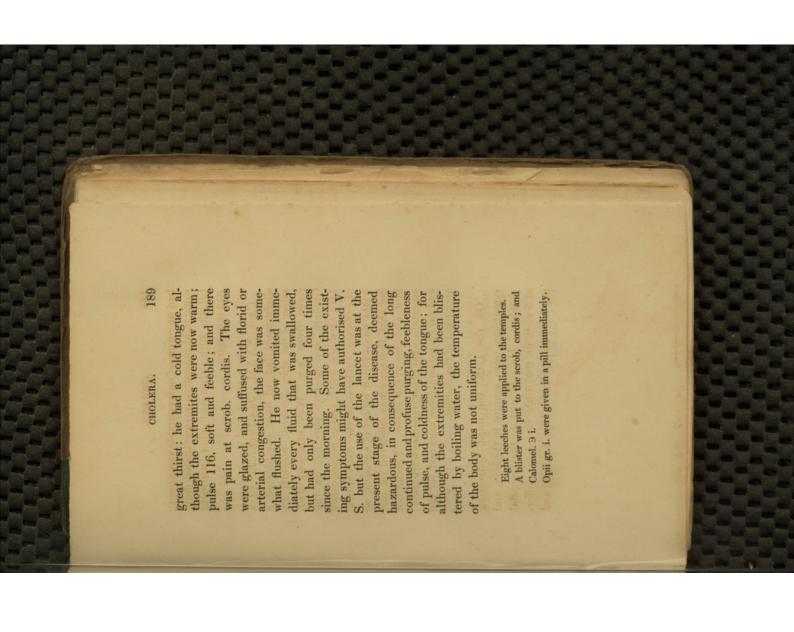
R. Pulv. Rhei 9 i. Aquæ Cinnamon. 3 i.



had no return of unfavourable symptoms: some mild purgative was continued daily till the 29th, when no further treatment was requisite.

CASE XXXII. Jas. Beck, Æt. 19, a slight made lad, of light complexion, a sailor of the ship Resource, recently arrived from sea. Was attacked with Cholera, and profuse purging, on the 11th October, 1827, and in consequence of extreme coldness of the extremities, water was applied by his messmates, so hot that the skin was blistered on one foot, and also at the elbow. I could not ascertain what other remedies were used: and no cause could be assigned for the accession of the disease.

On the 12th, the most distressing symptoms were cramps in the legs, and purging. He was sent to the Hospital at 5 P. M. on the 18th October; suffering from cramps in his legs, anxiety, and



9 P. M.—No return of vomiting or purging since 5 o'clock; the leeches bled profusely, whereby the flush of face and redness of eyes are diminished; he suffers less from thirst, and the tongue is warm, but pulse continues 116, weak and low; cramps in the legs have ceased.

R. Calomel. 9 i. Opii gr. i.

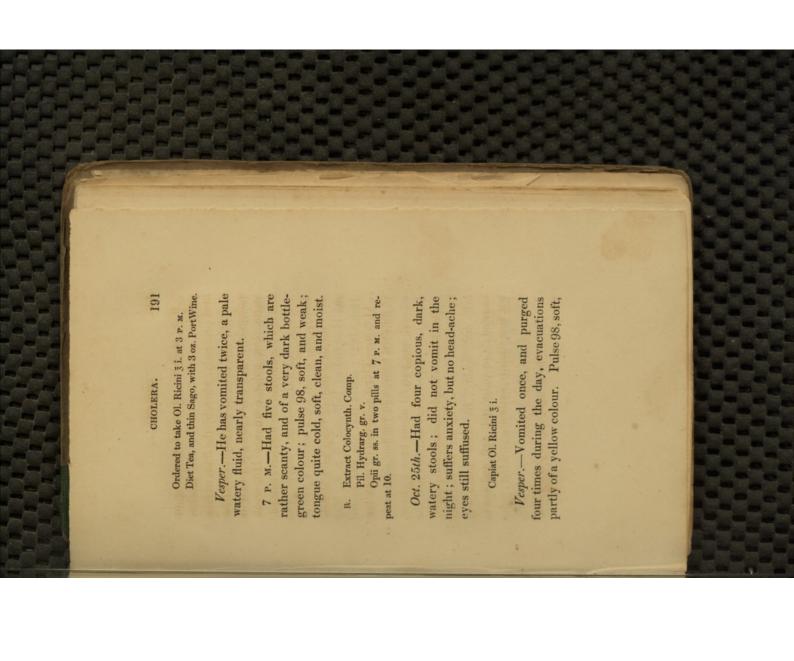
Extract. Colocynth. Comp. gr. v. in three

11 p. m.—Thirst subsided, no vomiting or purging since admission.

Ol. Ricini 3 ii.

Oct. 14th.—Vomited once, and purged three times; the stools are as black as ink, and scanty; he feels much exhausted; the pulse 104, soft and weak, but face slightly flushed.

R. Extract Colocynth. Comp.
Pil. Hydrarg. āā gr. v. in two pills at 7 a. m. and repeat at 11.



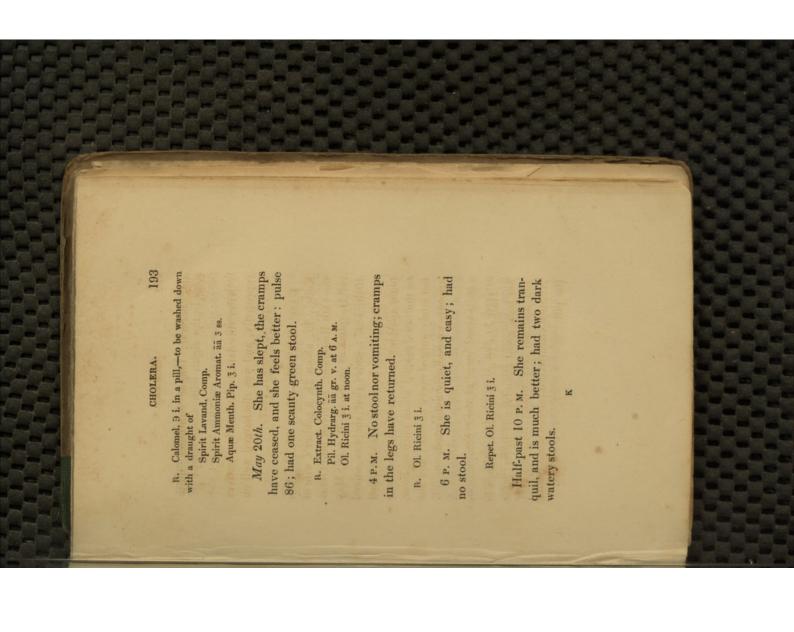
and natural; tongue continues quite cold.

After this date, he had mild purgatives repeatedly, and was discharged well on the 12th November, 1827.

Case XXXIII.—Mrs. Mary Ann Kelly, Æt. about 24, a soldier's wife of the 44th Regiment, received into General Hospital at half-past 9 p. m., May 19th, 1827: states that she was seized with extreme sickness at 1 o'clock last night, (20½ hours ago.) at first she vomited and was purged about once an hour, but lately purged every minute; and she appears exceedingly exhausted.

R. Calomel 3 ss.—Opii gr. i. statim.

Half-past 10 o'clock. Has cramps in her legs, great anxiety, and thirst; pulse 132 and not very weak; tongue warm. Neither vomited nor purged since taking the pill.





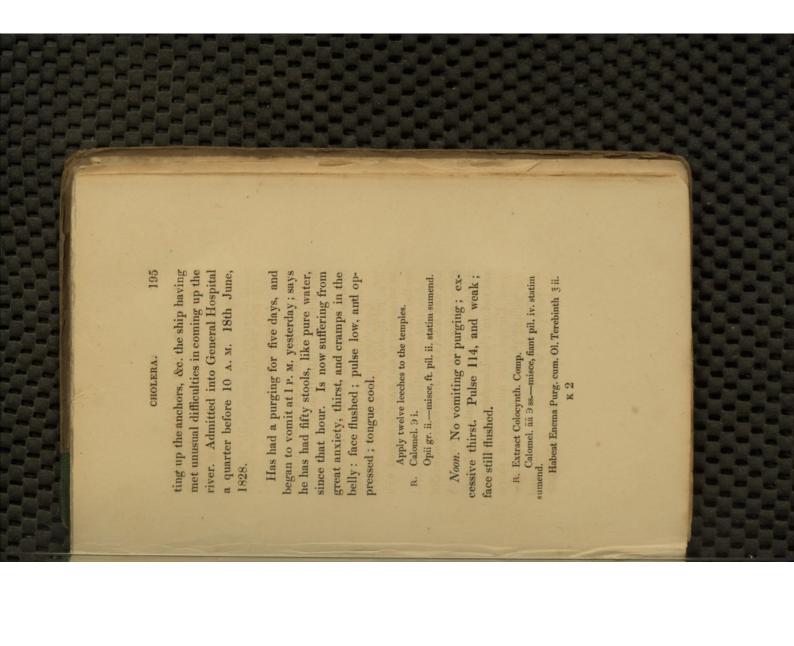
May 21st. Had one black watery stool in the night, with some lumps of fæces; pulse good, and skin warm; she feels weak.

R. Pulv. Rhei, 9 i. in Aquæ Cinnamon. 3 i.

Vesper. She has been freely purged, and is better. Mouth sore.

May 22d.—Had one stool, consisting of films of mucus in yellow bilious matter. After this date she used rhubarb as an aperient, and was discharged well on the 8th June.

Case XXXIV. John Fergusson, Æt. 23, a sailor of the Ship Euphrates. A middle-sized man, of dark complexion, arrived in the Hooghly ten days ago, from Europe; has not been on shore, but he and the rest of this ship's crew have been exposed to the sun, and worked hard for some days past in get-



5 r.m.—Pulse more free; face flushed; has pain at the navel; he feels warm and better, and the tongue is warm, but he is suffering from great thirst.

weak, and oppressed. He seemed to be sinking; and therefore was ordered a small quantity of sago, with Madeira

Apply sixteen leeches round the navel.
R. Pil. Hydrarg. gr. vi. statim.
Cream of Tartar drink 4 oz. at a time.

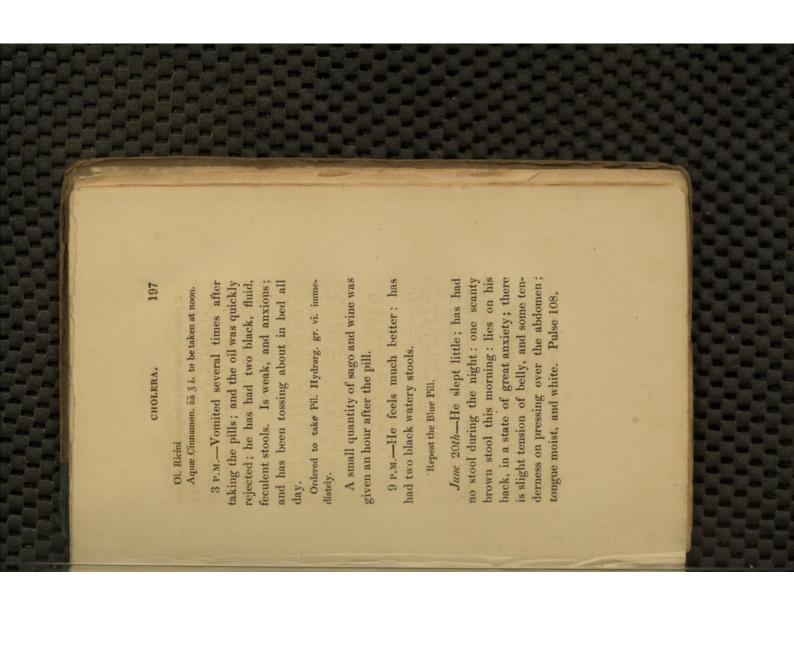
June 19th.—Vomited once this morning, and had two scanty watery stools, of grey colour. He is restless and very thirsty; face flushed; pulse 106, soft, and natural; tongue warm and moist.

Apply sixteen leeches to the nucha.

R. Extract. Colocynth. Comp.

Pil. Hydrarg. ää gr. v.

Opii gr. ½—misce, fant pil. ii. statim sumend.





R. Extract. Colocynth. Comp.
Pil. Hydrarg. aa gr. v. at 6 A.M.

Ol. Ricini 3 i. at noon.

Vesper.—He vomited some of the castor oil, with bile: had three black watery stools, and feels better.

R. Pil. Hydrarg, gr. vi.
Opii gr. ss. in a pill at 8 p.m.
Allowed Cream of Tartar drink.

June 21st.—He has had no stool or vomiting during the night.

R. Extract. Colocynth. Comp.
Pil. Hydrarg. āā gr. v. at 6 A.M.

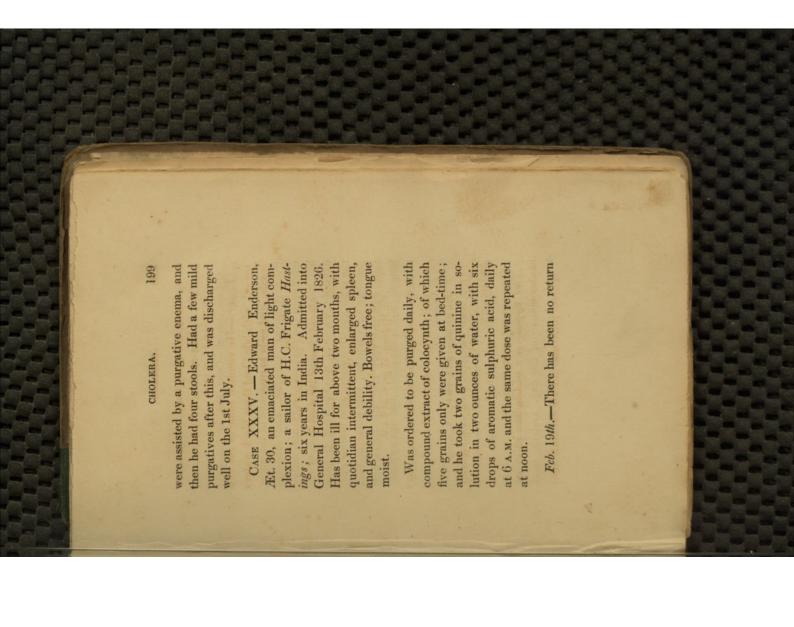
Vesper.—Has had no stool, and says he is well; tongue warm and moist.

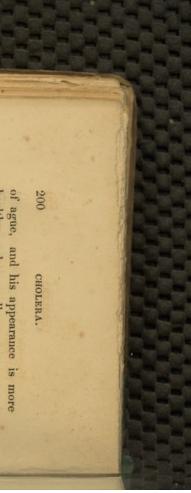
R. Pil. Hydrarg. gr. v.—н.s.

June 22d.—No stool; says he is well, and hungry.

R. Extract. Colocynth. Comp. 9 ss. Pil. Hydrarg. gr. v.—misce, fiant pil. iii. statim sumend.

These pills had no effect until they





healthy; spleen smaller.

Quinine omitted.—Comp. Ext. of Colocynth. ontinued.

Feb. 20th.—Was attacked in the night with vomiting, purging, and dreadful cramps in the muscles of legs, and belly; but made no report of this illness till daylight, when he was observed to have the sunk ghastly visage, and hollow eye, peculiar to Cholera; the pulse at that time was not very low, the limbs and tongue not quite cold: but his appearance was exceedingly altered.

R. Calomel. 9 i.

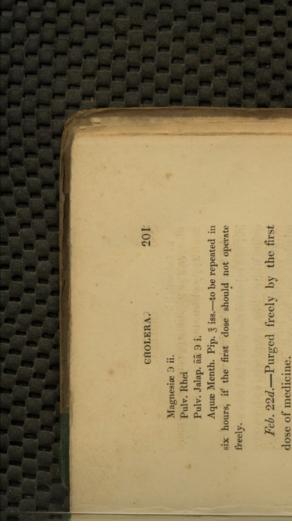
Opii gr. iii.—misce, fiant pil. ii. statim.

A blister was applied to the scrob. cordis.

Brandy and hot-water each 1 oz.—ordered

to be taken now, and repeated in an hour.

The appearance of Cholera subsided in the course of the day, and the next morning he was ordered to take



He recovered under the use of aperient medicine frequently repeated.

prostration of strength, sunk eye, coldness, and a weak pulse at 120: the cramps in the legs; and sent to General Hospital at 6 A.M. on the 23d May, 1827. The commencement of collapse was at that time evinced by extreme tongue was cool, moist, and nearly clean; voice feeble and pectoral. She at midnight with purging, vomiting, and CASE XXXVI.-Mrs. Brannigan, Æt. 30, a small and thin woman; was seized had not taken any remedies.

R. Calomel. 9 i.
Opii gr. ii. to be taken in pills immediately.
Apply a blister to the scrob cordis.

At 8 a.m.—She had vomited twice, but not rejected the pills; had two stools, quite white, like magnesia and water; in other respects no change since admission: she has occasional cramps in the legs.

R. Calomel, 9 i.

Extract. Colocynth. Comp. 9 ss.

Opii gr. i.—misce, ft. pil. ii. statim sumendæ. To take Ol. Ricini 3 i. at 11 A.M.

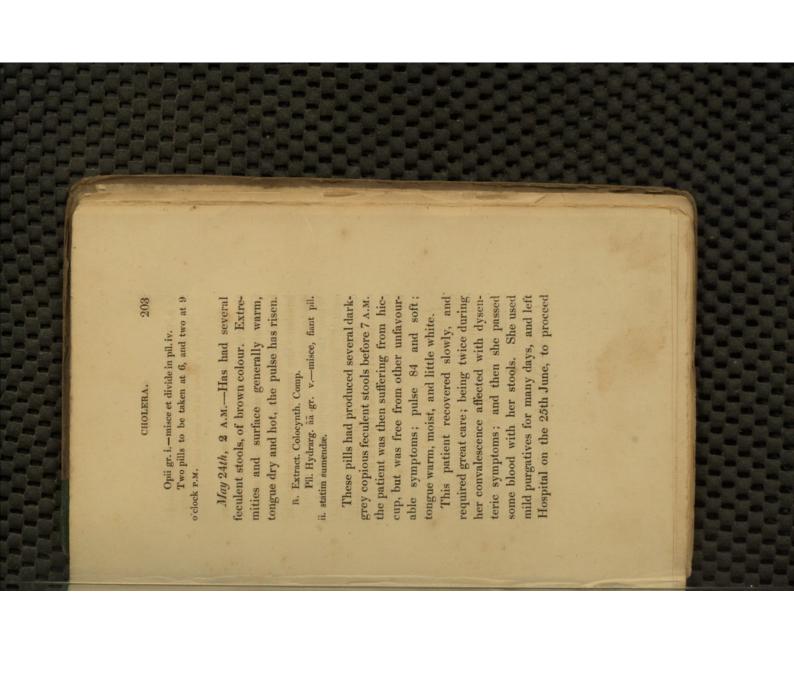
Some sago with port wine to be given two hours after the castor oil.

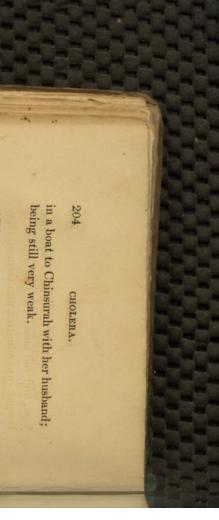
Vesper.—Has had several stools: the pan of the night-chair is nearly full of dark-brown water: surface of the body, as well as the tongue, warm. Cramps ceased, and the pulse free.

R. Pil. Hydrarg. gr. x.

Calomel. gr. iv.

Extract Colocynth. Comp. gr. vi.





This woman was nursing a child about six months old, when she was seized with Cholera: she would not be separated from the infant, which remained in the bed crawling over its mother when she was suffering severely from the cramps. While the bad symptoms of Cholera existed, no milk was secreted; but during convalescence the flow of milk returned, and after an interval of twelve days the mother nursed her child again, on the 5th June.

If Cholera were very liable to be contracted by personal communication, this child was exposed to its influence in the highest degree, but shewed no sign of ailment.

CASE XXXVII. John Berrigan, Æt.



opium were quickly vomited, and he is becoming colder and lower. Pulse very feeble, purging continues.

R. Tinct. opii—Spirit. Æther. Sulph. ãa 5 ss.
Ol. Cinnamon. gtt. v.
Aquæ Font. 3 iss.—misce, to be taken now.

II A. M.—Much nausea and anxiety, with dreadful distress from thirst, continue; but the purging has ceased; his extremities are warm, and there is an equal general perspiration over the surface.

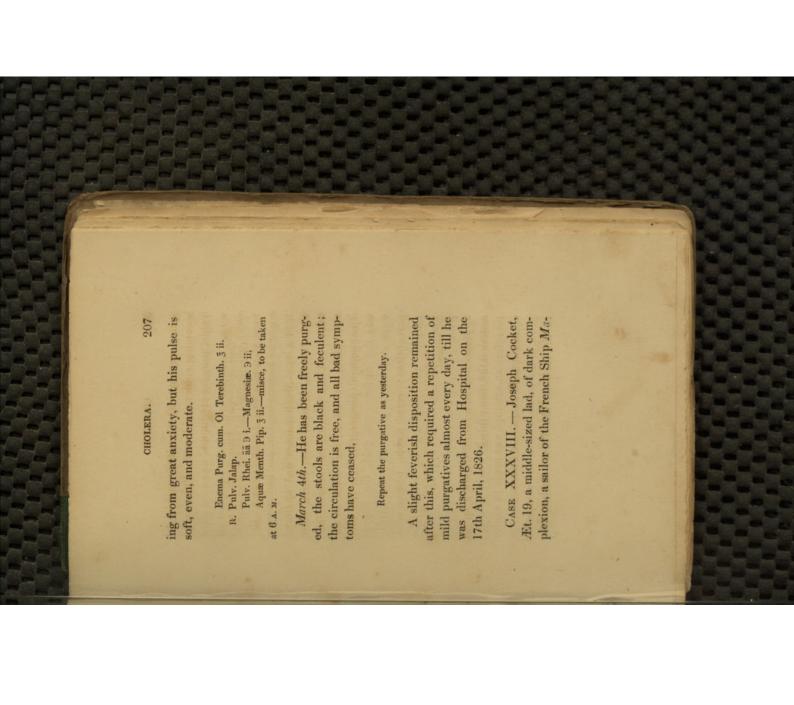
lk Extract Colocynth. Comp. Calomel. āā \ni ss. Camphoræ gr. ii.—misce, fiant pil. iii. sta-

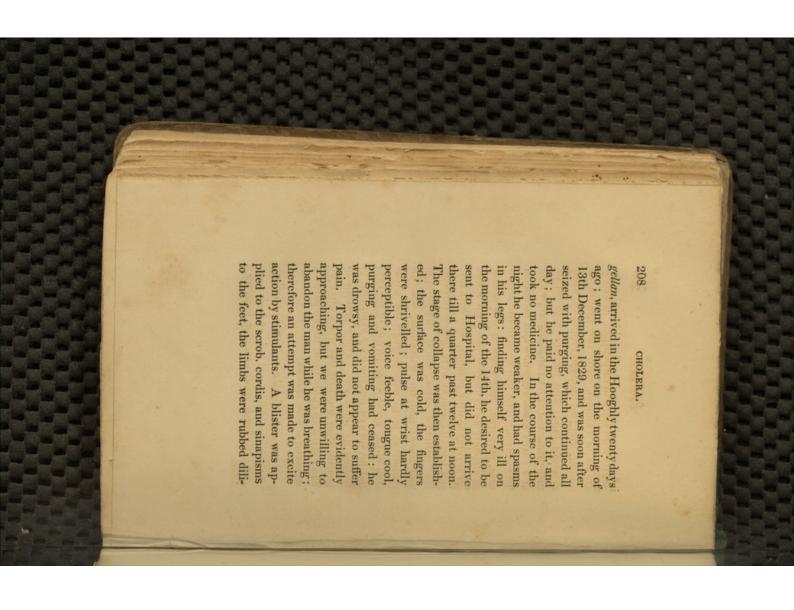
tim sumend.

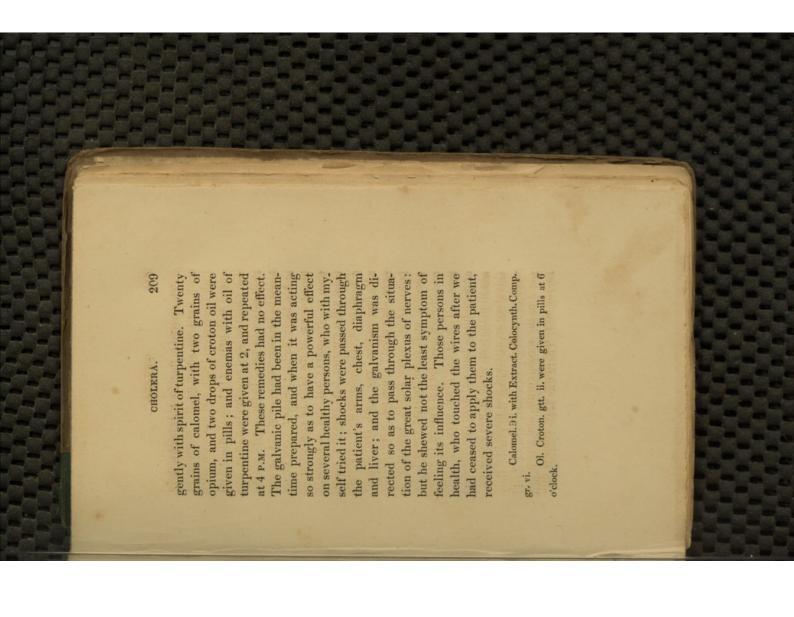
Vesper.—Had no stool since 8 A.M. he suffers much from thirst.

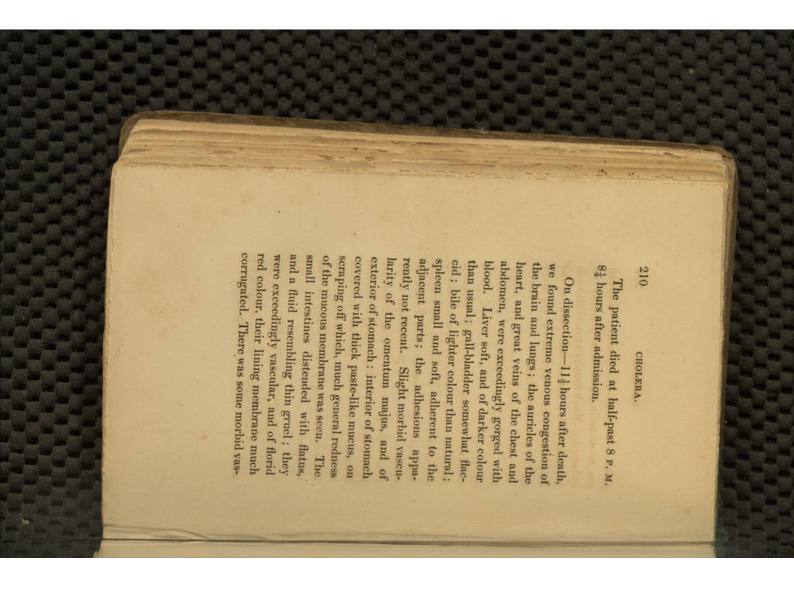
Habeat Enema Purg. cum. Ol. Terebinth. 3 ii

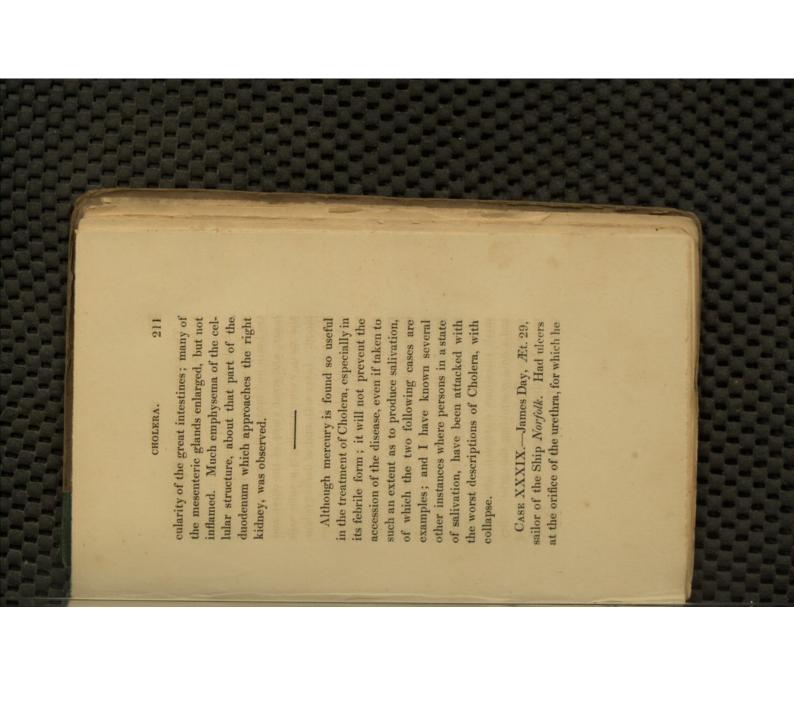
March 3d.—Had no stool: he is suffer-





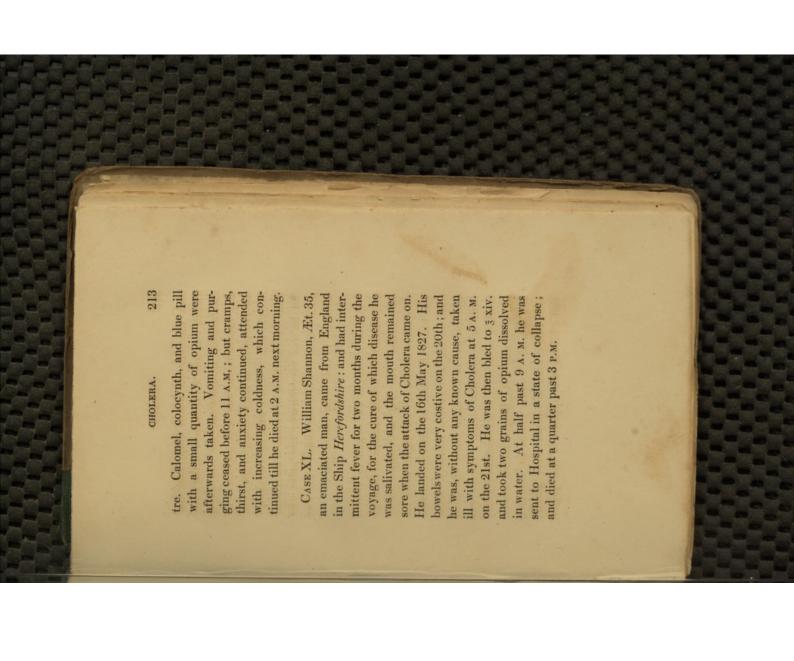




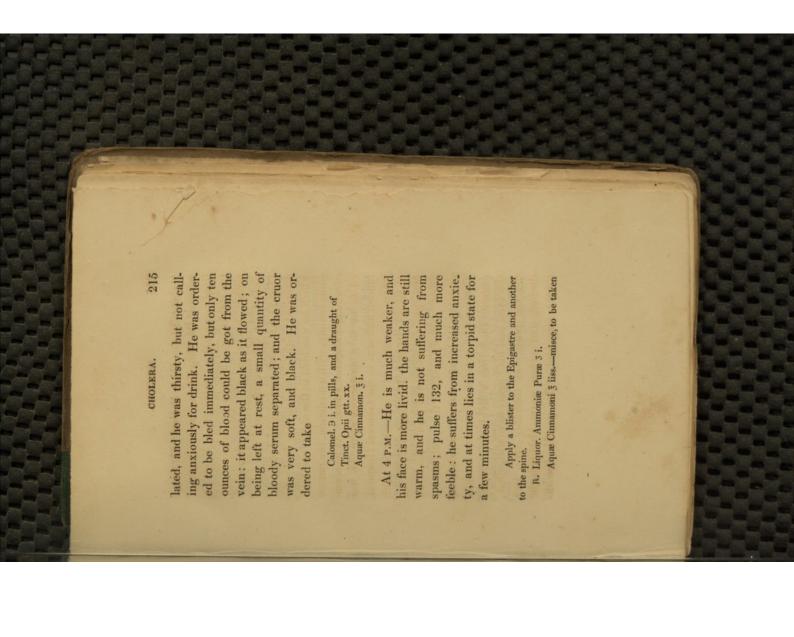


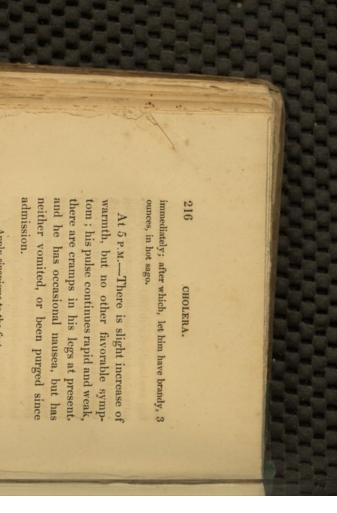
took mercury on board ship, and the mouth was sore: a looseness of the bowels became troublesome for two days, and therefore he was sent on shore, to the Hospital, in the evening of the 20th March, 1828. There were then no symptoms except those of common diarrhœa, but he was very thirsty; the pulse was good; tongue white but moist. He was directed to take some castor oil.

About midnight he began to vomit, and was attacked with cramps in the legs and arms. He did not make these symptoms known till day-light, when he was found in a state of extreme exhaustion, having been at stool fourteen times, and the pan of the night chair was filled with a conjee-like fluid. There was morbid sensibility at scrobiculus cordis; pulse 96 and soft; tongue moist, warm, and white. Twenty grains of calomel, and two grains of opium were given; and a blister was applied to the epigas-



tongue was cool. The pupils were diflushed, and surface warm, although the but the pulse was tolerably free, face the eyes, and his fingers were shrivelled; degree, there was a livid circle round Cholera was present in a very marked where he arrived at 3 o'clock P.M. 20th ed to be in a dangerous state, he was of which he does not know. As he seempression of countenance indicative of loins, and epigastre: the peculiar exfrom great anxiety, and pain in the head, February, 1832. He was then suffering landed and sent to the General Hospital, some brandy, with a medicine, the nature which he was bled in the night, and took attended with cramps in his feet: for o'clock in the evening, and was taken ill at II P.M. with vomiting and purging, terday, but returned to his ship at 8 ten weeks ago; he was on shore all yeslight complexion, arrived from England, sailor of the Ship Moira: a stout man of Case XLI. John Brown, Æt. 22, a





Liquor Ammoniæ to be repeated at 5, 6, 7, Apply sinapisms to the feet.

and 8 o'clock.

the voice is feeble, pulse 132 and weak; At 9 P.M.—He is weaker, and colder;

he has had no vomiting or purging. Let him have 3 ounces of brandy with hot

every second hour. be repeated every hour till midnight; after that, lower part of the chest.-The Liquor Ammoniæ to Apply a large mustard plaster across the

February 21st, at 6 A.M.—He has had

mited, nor has he been purged. The a restless night, with constant distressing nausea, but he has not actually voweak. His tongue is warm, and he says the pain at the epigastre and in the loins has ceased. The mustard plasters have voice is stronger: pulse 114, but very blistered his feet; and the blisters which to vesicate, when he pulled them off in were applied yesterday had commenced the night.

R. Extract. Colocynth. Comp.-Pil. Hydrarg.

Ol. Menth. Pip. gtt. ii. to be taken in pills at 6 A.M. and repeated at 8 and 10 o'clock.

Ol Ricini 3 iss. to be given at 12, and repeated at 2 o'clock.

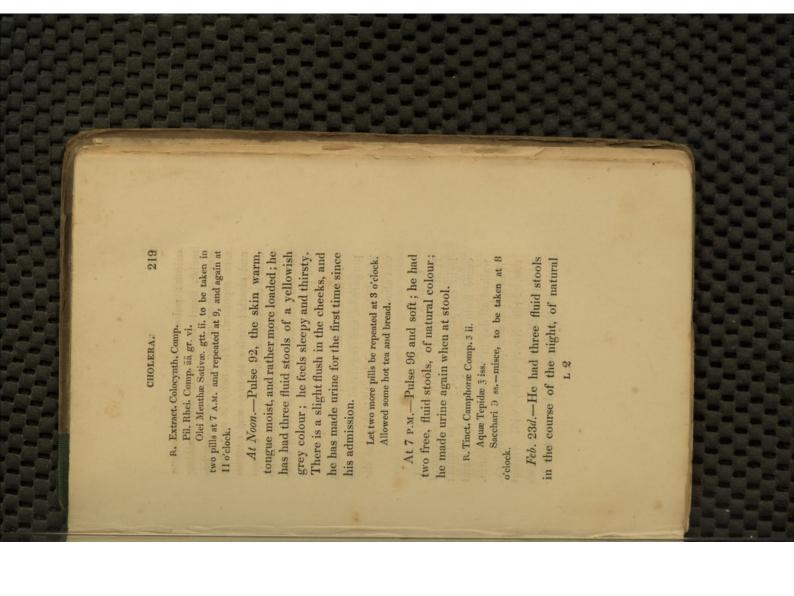
form warmth of the extremities, the pulse warm. He is free from pain, and the voice is much stronger; but debility con-At 5 P.M.—He has had no stool, and has not vomited; there is now an unitinues to such degree that he cannot is 104 and soft, the tongue moist and

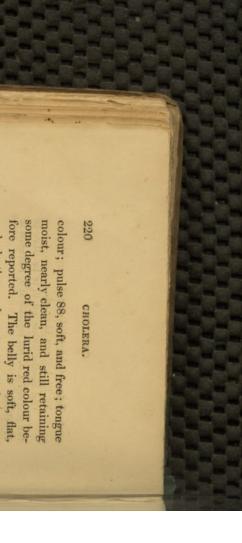
a considerable quantity of dark-coloured brought away; the lurid colour of the at 5 o'clock, and repeated at 7, by which three ounces of brandy allowed. face is much decreased. Hot sago with watery fluid, of a feculent smell, was noon. A purgative enema was ordered he has slept for two hours this afterraise himself in bcd without assistance;

R. Extract. Colocynth. Comp. 9 ss. Olei Menthæ Pip. gtt. ii. to be given in three Pil. Hydrarg. gr. v.

pills at 10 o'clock, and repeated at midnight.

a lurid red colour, moist, and nearly had no stool during the night. in the belly. He has not vomited, and and rather full, and he complains of pain night; the abdomen is doughy, inelastic, ral temperature, but not so warm as last clean; the skin is now nearly of a natuis 94 and soft, the tongue warm, of Feb. 22d.—He slept little; the pulse





After this date he required only mild purgatives, and regulated diet. On the 28th February he joined his ship, as she was about to sail.

tard plasters.

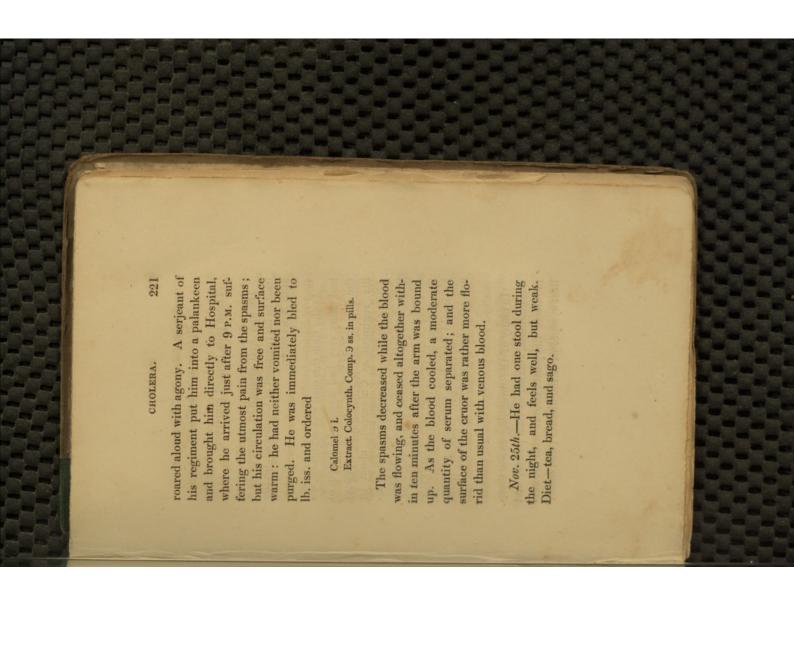
feet are very sore from the strong mus-

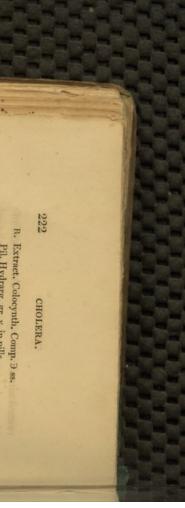
and elastic; voice strong, and counte-

nance cheerful; he is thirsty, but the ap-

pearances of Cholera have subsided. The

Case XLII.—David Murray, Æt. 21, H.M. 26th Foot, a stout and tall man of light complexion, two years in India; came from Chinsurah on business, and walked all day in the sun, in Calcutta. Was seized at a quarter before 9 o'clock, P.M. 24th Nov. 1830, with violent cramps in the extremities, and so much pain in the fingers and toes, that he





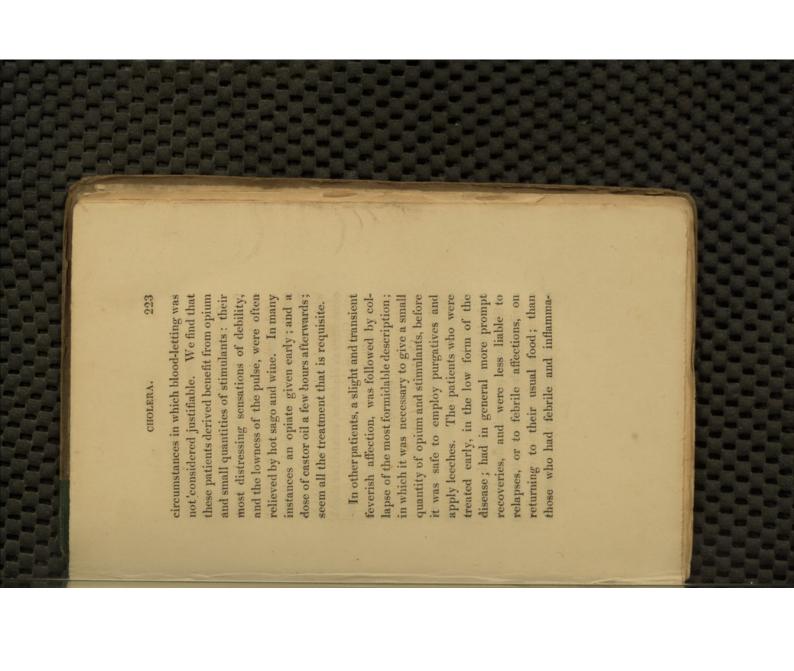
Pil. Hydrarg. gr. v. in pills.

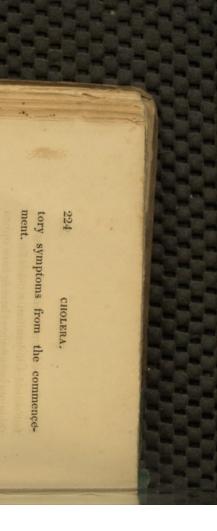
These pills purged him freely.

26th November. boat to his regiment at Chinsurah, on the He was well enough to proceed in a

and other bad symptoms in a short time. he would have had vomiting, purging, this patient had not been promptly bled, Therefore I am inclined to think that if vere description of Spasmodic Cholera. miles distant, were suffering from a sehis regiment at Chinsurah, about 18 the General Hospital; and the men of had many very bad cases of Cholera in At the time this man was attacked, we

failure of the pulse; coeval with the earliest symptoms of the disease; and under was coldness, sinking of vital power, and In many of the foregoing cases, there

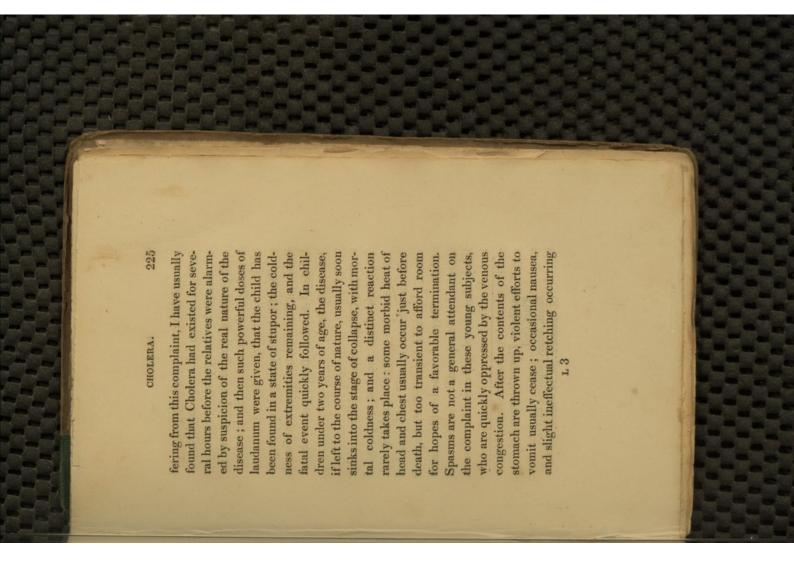




On perusing the accounts we receive from home, I observe that the low form of Cholera, with early collapse, has occurred in some parts of England. Should the disease prevail extensively in Great Britain, I think it probable that cases will occasionally be met with, which commence as diarrhea, catarrh, or slight fever; and after a few days evince a tendency to Cholera.

CHOLERA IN CHILDREN.

EUROPEAN children under two years of age, do not very often suffer from Cholera; but among those who are attacked by the disease at that early period of life, a large proportion die: which I ascribe as much to the early treatment employed, as to the malignity of the disease, for, when called to see children suf-

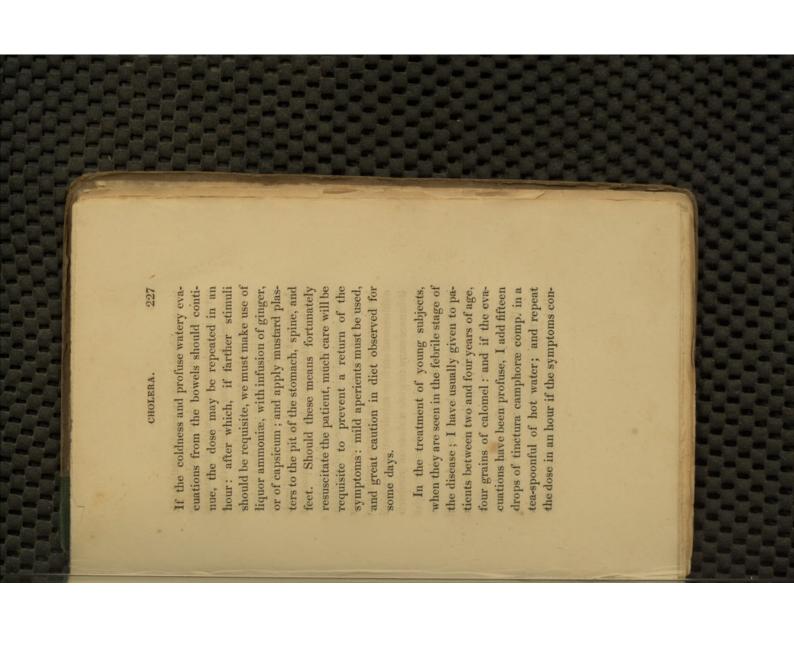


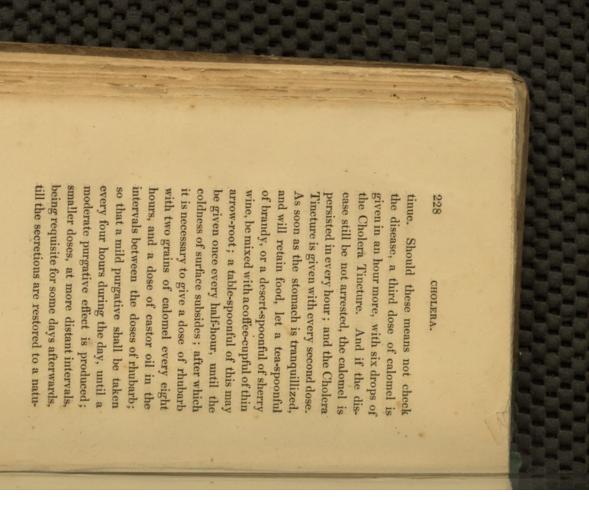
now and then; but unless the patient be indulged in much drink, nothing is vomited, though the watery purging continues, with gradual sinking of the pulse, and increasing coldness.

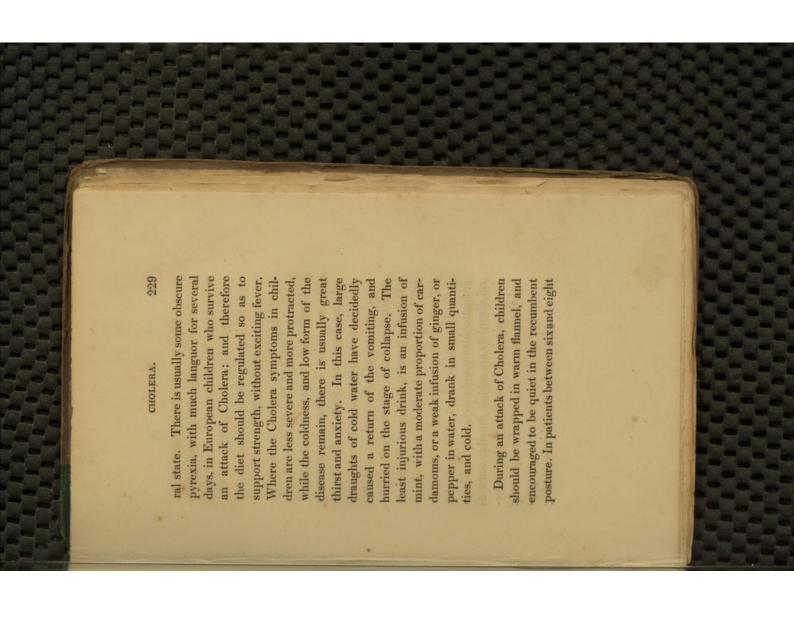
When Cholera in young children supervenes on Diarrhæa or Dysentery of several days' duration, the disease is almost inevitably fatal.

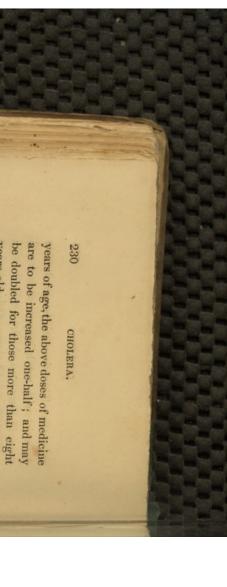
When Cholera attacks children under two years of age, the first symptoms of the disease are generally attended with extreme prostration, and cold perspirations. In such cases, four drops of Cholera Tincture*, mixed with a little sugar in a tea-spoonful of water, will very often completely arrest the disease.

^{*} The Cholera Tincture is composed of Tinct. Opii Spirit. Ether. Sulphuric. aā 3 ss. Ol. Cinnamon. gtt. xv.—misce.





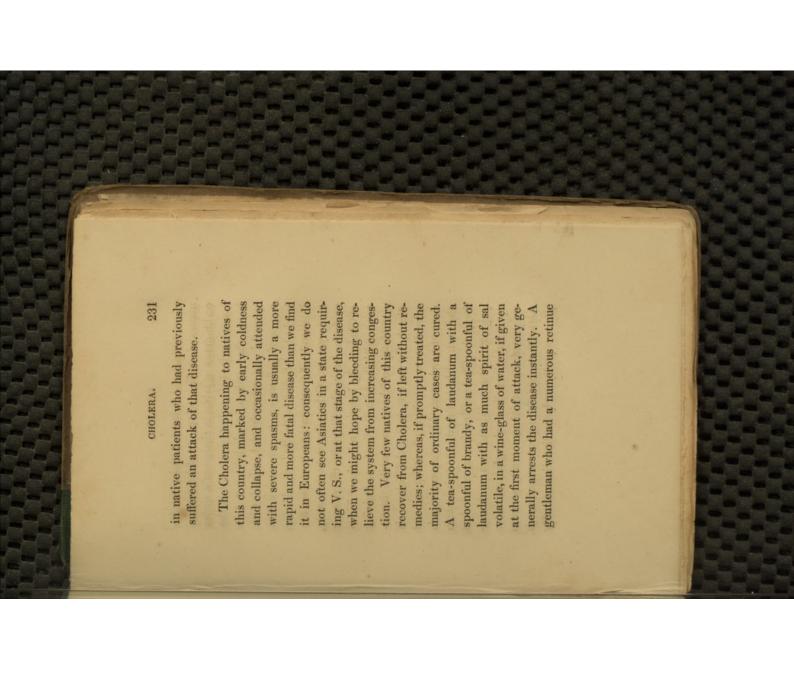


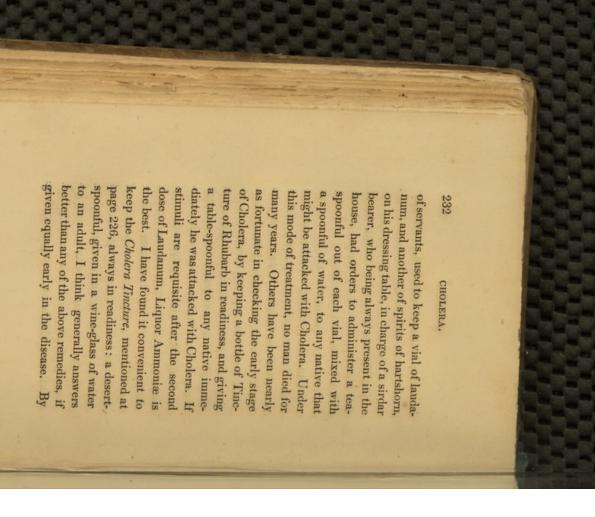


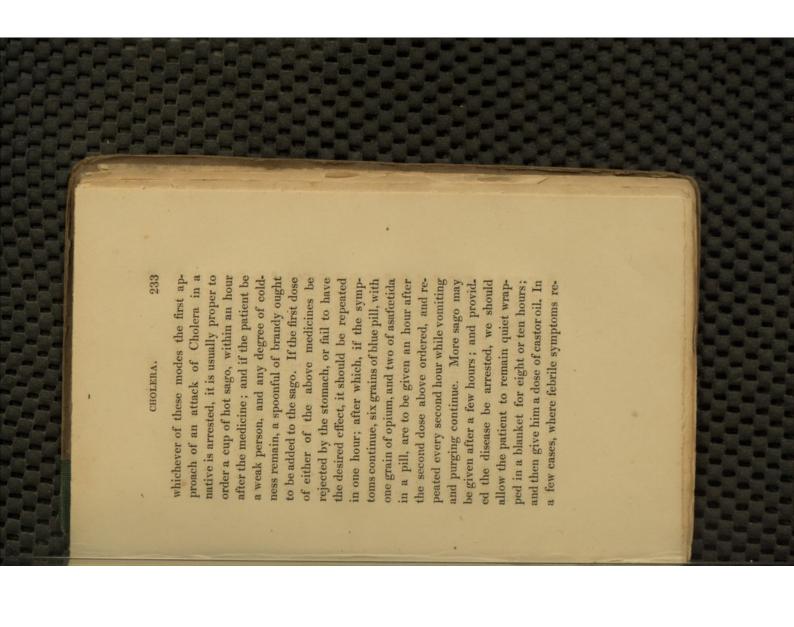
CHOLERA IN ASIATICS.

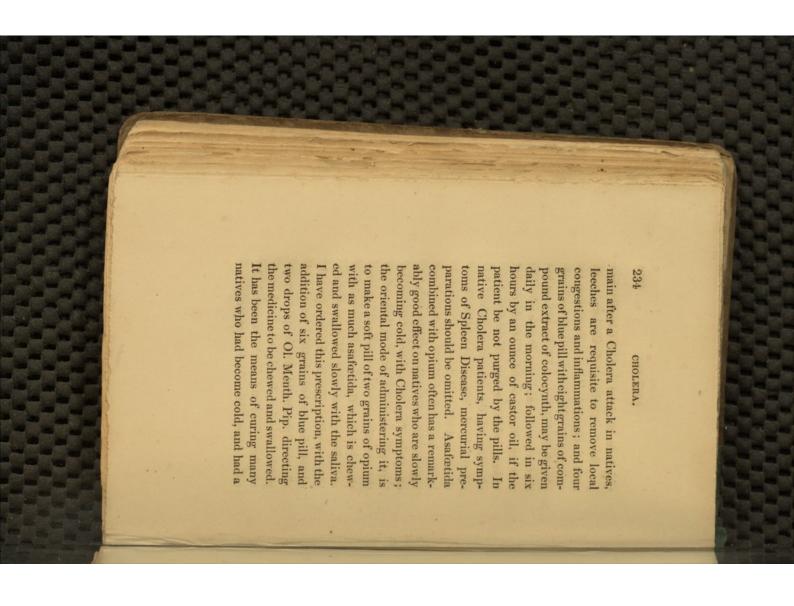
years old.

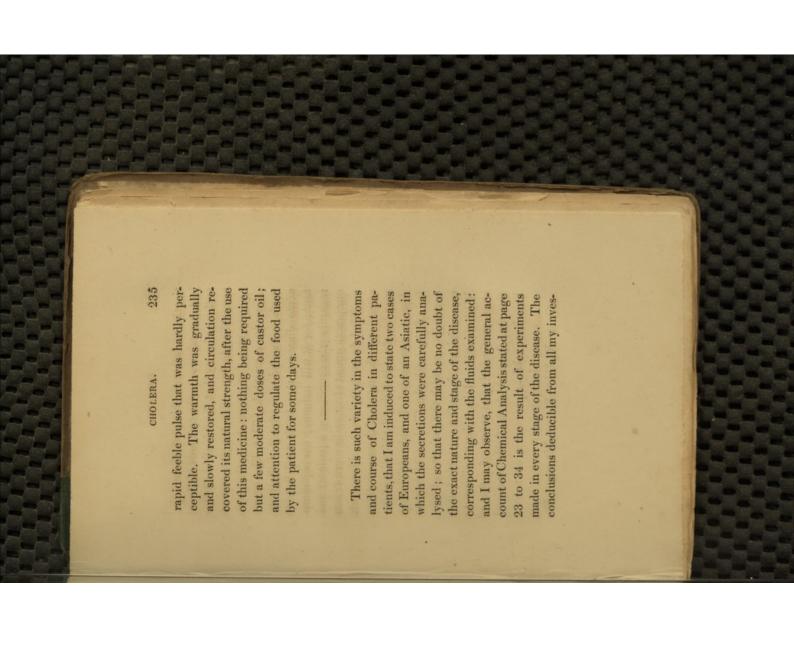
tic symptoms and emaciation, occurring Dysentery; and more frequently, dyspepral times seen a sub-acute description of its sequelæ in natives; though I have several disorders are seldom found to occur as sudden coldness and early collapse. Viscesuffer from the low form of Cholera with affects the poorer natives of Bengal, is inflammatory symptoms; they commonly still more rarely attended with febrile or description of the disease which usually with pyrexia and inflammation: and that which is at the commencement combined seldom have that form of the disease who are living in affluence, they very When Cholera attacks robust Asiatics,

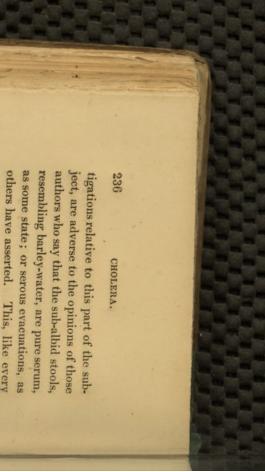






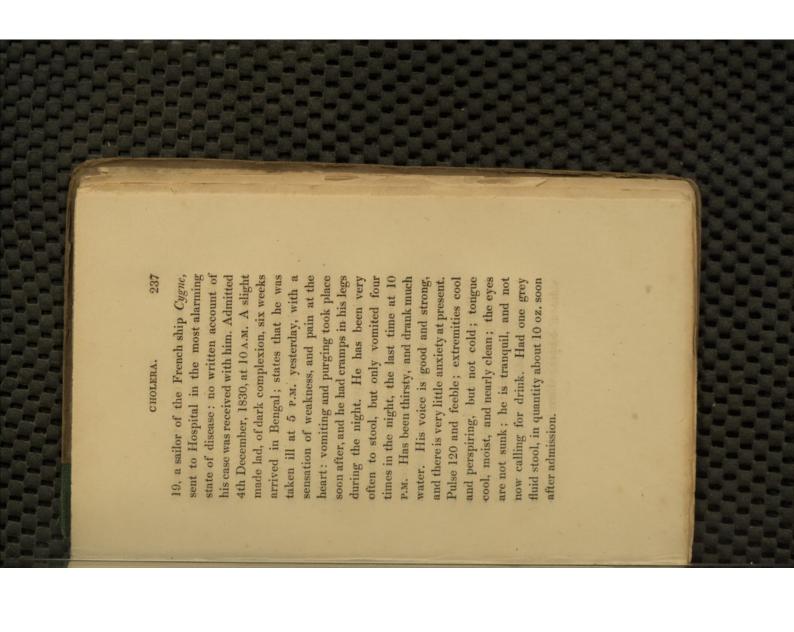


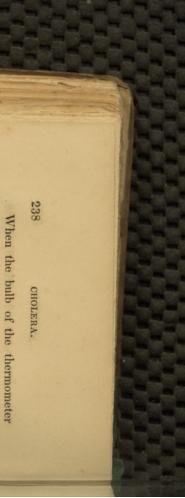




state particularly the nature of a few of case which may hereafter appear in India. have been taken. the cases from which the fluids examined With this view, I have been willing to countries; or with the varieties of disits affinity with the Cholera of remote may be of use in fixing the identity of the attention to the nature of those secretions our practice must of course be more or less disease now treated of, and establishing modified by such opinions. Moreover, regarding the condition of a patient; and acute diseases, may be deemed important; for it will influence our opinions truth connected with the pathology of This, like every

Case XLIII.—Pierre Vinceau, Æt.



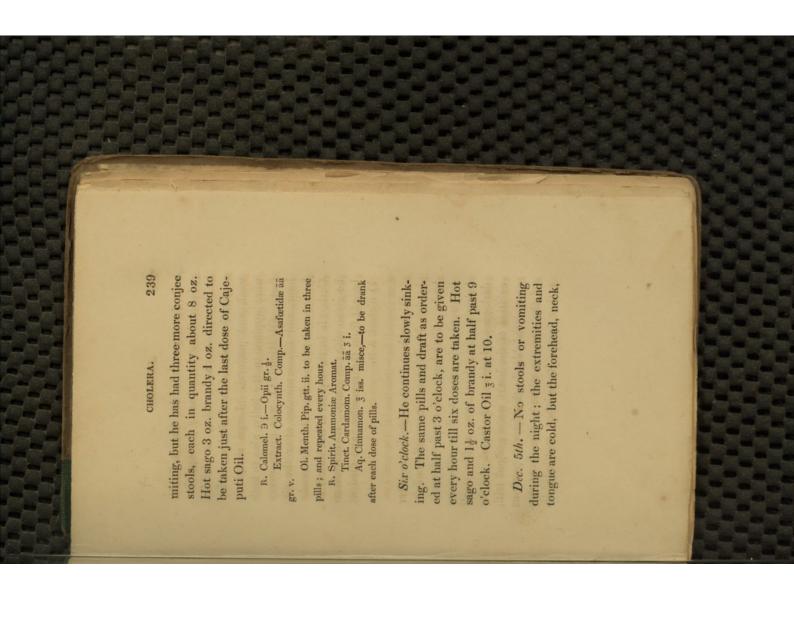


was placed under his tongue, the mercury stood at 91, and temperature of the extremities was ascertained to be 82. The atmosphere being at this time at 76 degrees of Fahrenheit.

Spirit of turpentine was rubbed to the extremities constantly. He was made to swallow half a drachm of Cajeputi Oil, in half an ounce of cinnamon-water; and the dose was repeated in half an hour. No effect being produced by the two first doses, one drachm of the oil was given at 11 o'clock, and repeated every hour till 3, making in all, six drachms of

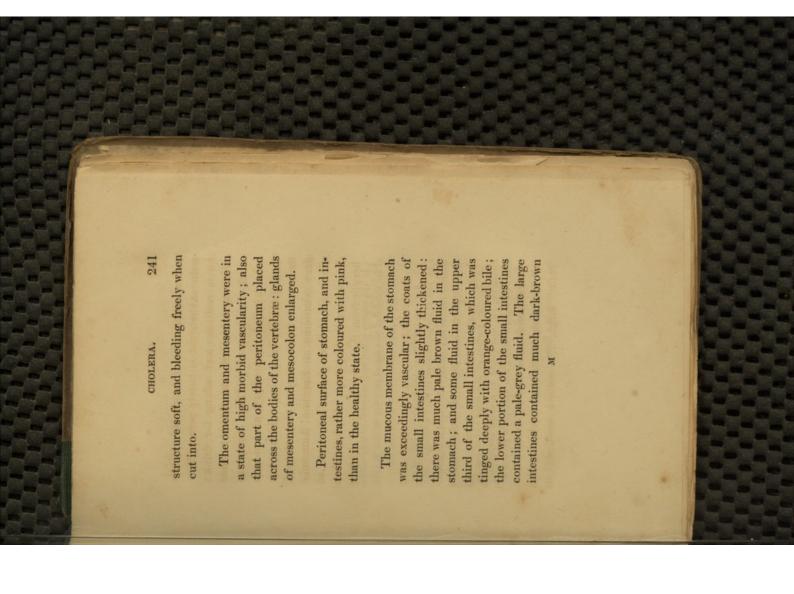
Half past 3 o'clock.—The patient has been frequently visited, during the interval since 10 o'clock: the Cajeputi Oil has had no effect; he appears rather worse, and is very slowly sinking into a state of torpor: there has been no vo-

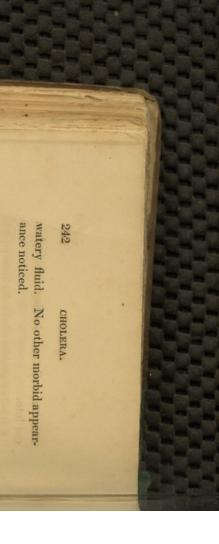
the Cajeputi Oil.



and chest, are hot; the face is livid; pulse at the wrist is barely perceptible: he is restless, and asking for drink; respiration hurried and feeble; voice weak and pectoral. Large sinapisms were applied to the belly, also to both feet. Ol. Ricini 3i. was given every hour, and fifteen minutes after the oil, he was ordered an Enema of Ammoniae Carb. 3i. in three pints of hot water, to be given with the pump. He derived no benefit from the remedies, and died at 11 o'clock A.M.

Dissection at 4 P.M.; five hours after death. Much venous congestion of the brain. Both lungs universally adherent, but not bearing marks of the adhesions being recent; there were a few small dark-grey tubercles in the lungs. All the cavities of the heart were gorged with coagulated blood; the anterior portions of the coagula white. The liver was rather large, its surface mottled; its





It may be sufficient to state the result of the analysis of the third conjec-stool voided by this man after his admission into the Hospital. That fluid was left to stand for two hours, and a quantity of grey paste-like mucus had then subsided; the following was the result of examination.

- The mucus which had subsided to the bottom of the test tubes was found partially soluble in cold water, affording an opalescent turbid fluid.
- 2. Another portion of the sediment, measuring 5 ss. and of the consistence of thick mucliage; was entirely soluble in a mixture of 5 x. of Liquor Ammonia, with the same quantity of distilled water.
- 3. Another portion of the same sort of mucus, measuring 5 ii. was heated in a small evaporating dish over a spirit lamp; and during the process an odour of putrid flesh was evolved. It dried into a thin film, which became charred and black, without burning in a flame.

CHOLERA. 243

The watery fluid was next examined.

4. It had a slight effect in reddening litmus paper; the colour of which was restored by dipping the the paper into a mixture of four drops of Liquor Ammoniae, and half an ounce of water.

5. Heated slowly over sand, to 200 degrees of Fahrenheit, it did not coagulate. When the heat was raised to the boiling point, a few small grey flocculi formed.

6. The addition of a solution of oxymuriate of mercury, produced a slight turbid appearance, and at the end of 12 hours, a minute precipitate had formed, which was estimated at $\frac{1}{3^{2}}$ of the quantity of fluid submitted to this experiment: the fluid at the upper part of the tube having a slight opalescent appearance.

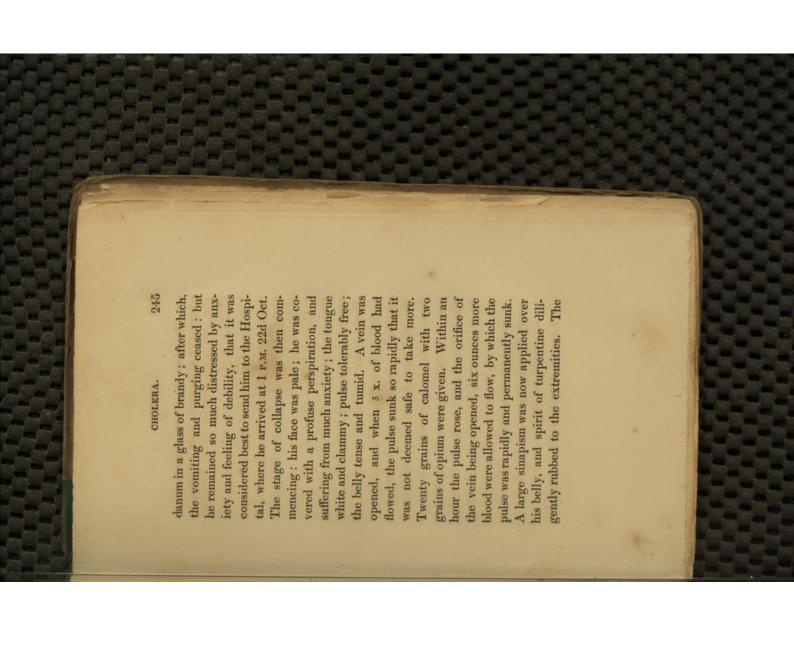
7. Solution of subacctate of lead, instantly caused a dense curdled appearance, which quickly pervaded the whole tube, and in a short time began to subside; at the end of 12 hours it had settled down, so as to occupy $\frac{1}{6}$ the space of the tube that had contained the fluid examined.

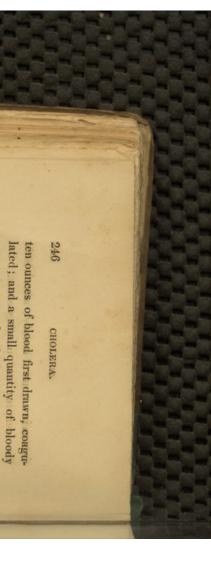
8. The addition of alcohol to another portion of the fluid, produced no effect.

 The addition of infusion of galls to another portion of the fluid caused a slight turbidness, and after some time a very few minute flocculi subsided.

The examination of the fourth conjecstool voided by this patient afforded similar results.

the Captain gave him 60 drops of lauhe succeeded in getting on board, and vomiting and purging; at 9 o'clock A.M. he was seized with cramps, followed by the bank of the river. About midnight to get on board, he slept in a shed near was wet by a shower of rain; and failing was not drunk. Late in the evening he some spirits in the bazar, but says he the afternoon of the 21st, and drank maining a week on board, he landed in middle of October, 1831; and after recomplexion; a sailor of the ship Mount muscular man, of middle size and light Vernon; arrived from sea about the Case XLIV. - Torrens, Æt. 29, a





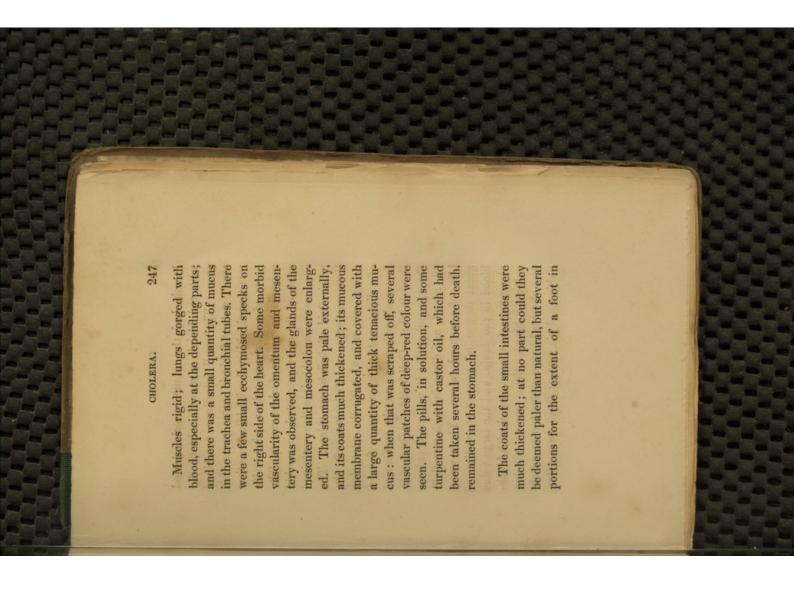
Calomel, with colocynth, asafætidæ, and oil of cinnamon, were repeatedly administered, and stimulants used: and he took a dose of spirit of turpentine and castor oil, each one ounce; but no medicine had any effect; he gradually sunk into a state of torpor, pulse at the wrist ceased, and the fingers became shrivelled. He died at 3 A.M. on the 23d October, fourteen hours after admission into Hospital: during which period he had four scanty fluid stools of a brown coloury and vomited several times.

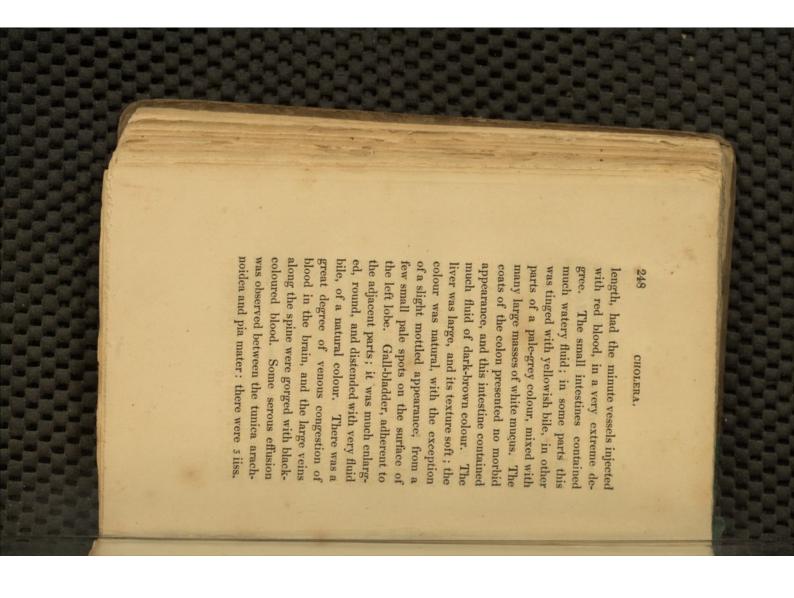
serum was separated: the cruor of the blood in both cups was remarkably dark-

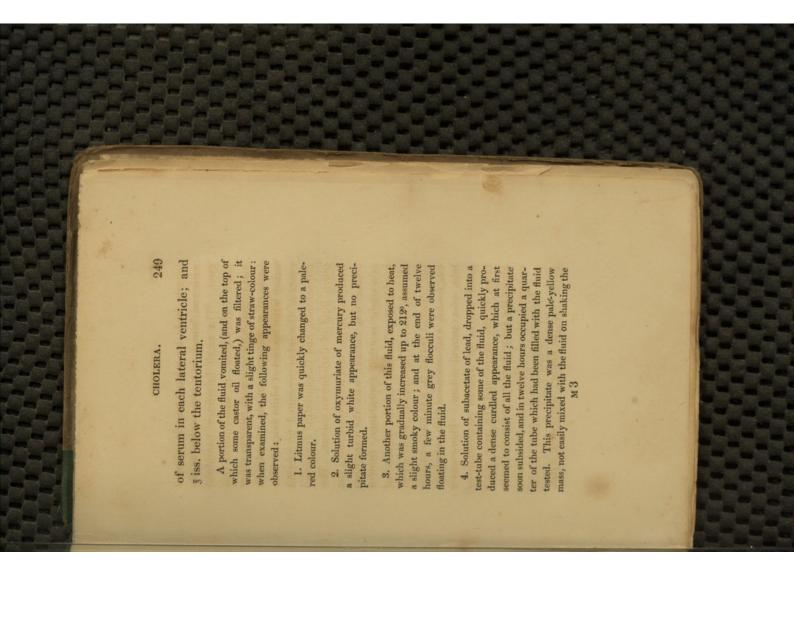
serum separated, which on exposure to

heat of 160° formed a firm coagulum. The blood last drawn coagulated, but no

Dissection .- Twelve hours after death.







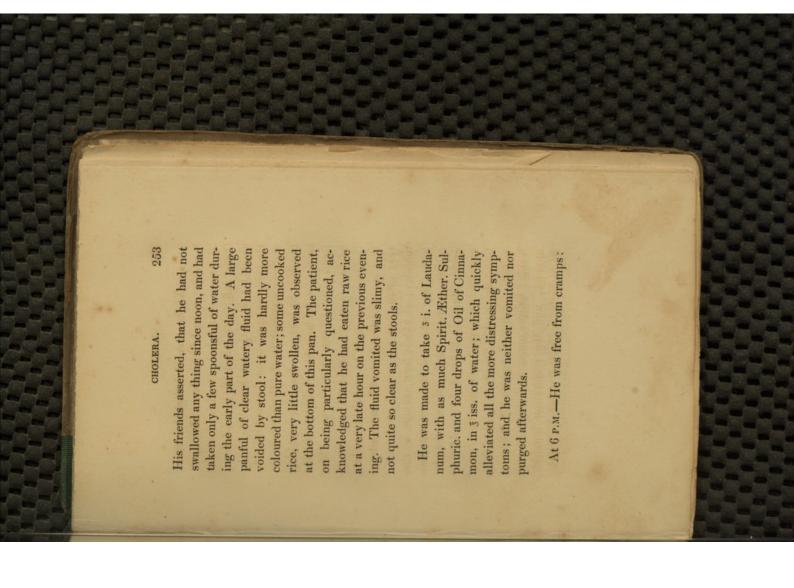
tate was nearly transparent, with a slight bluih tinge; a few small white flocculi adhered to the inside of the test-tube.

5. On addition of the infusion of galls, the fluid became turbid, and a pale lead-coloured precipitate formed, which subsided in twelve hours, so as to occupy $\frac{1}{24}$ of the space in the tube, which had been filled with the fluid tested. The precipitate was light, and easily diffused through the fluid by shaking the tube.

The most fluid of the stools, voided while he was in Hospital, was filtered through paper; and then it had the colour of weak coffee, of a peculiar feetid odour, not like faces. The filtered fluid was diluted with equal quantity of distilled water, for the purpose of decreasing the colour, that the effects of re-agents might be better observed: and when tried with various tests, the following effects were observed:

- Litmus paper was slowly and slightly changed to a reddish colour.
- 7. A portion of the diluted fluid, exposed to heat gradually raised to 212%, became in a slight degree more transparent; it did not coagulate, but a few

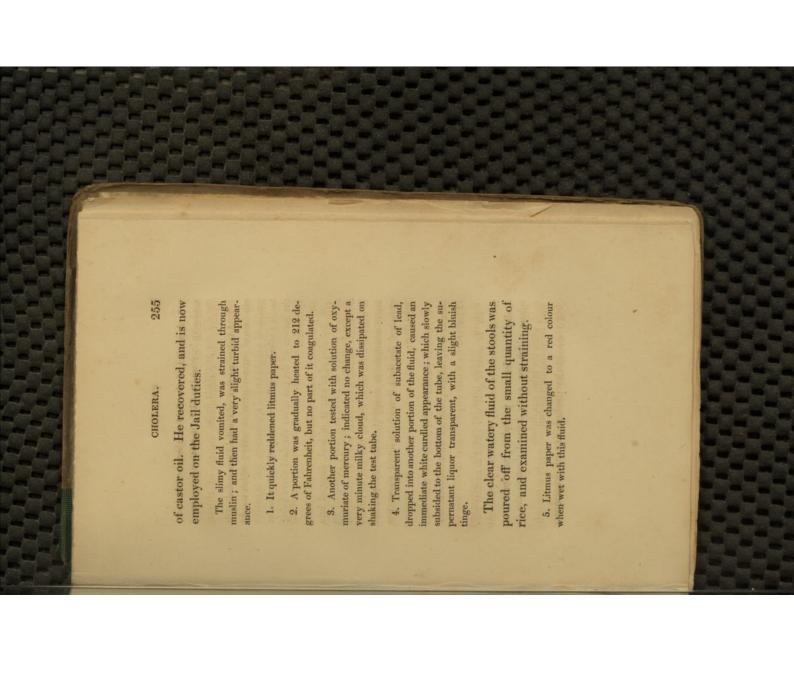
anxious, and the respiration hurried; countenance sunk and ghastly; eyes feeble; tongue moist, and clean; he was velled; voice weak; pulse 138 and very blood-shot; the fingers slightly shriexcite alarm. I found him cold, his coldness were so much augmented as to he eagerly requested water to drink. mid-day; at which time cramps in the legs came on, and the purging and very often; but not purged much until they asserted that he had been vomiting advice was not requested until 4 r.m., when the friends thought he was about to die: limbs when the cramps were severe. My covered with blankets, and champooed the the Jail, by his comrades, who kept him and was watched in the Guard-room of about 1 A.M. on the 1st December, 1831. He made no application for medical aid, Great Jail; was taken ill with Cholera 35 years, employed at the Calcutta kandauze, named Shaik Sonawalla, aged Case XLV. - A Mahommedan Bur-



Some thin hot sago with 3 iiss. of brandy was now given, after which he

and he remained at home nearly a month; near. This request was complied with, take him home to his village, which was that his friends should be allowed to colour. He now earnestly entreated small quantity of sago, without brandy. of the day, and he was persuaded to take a which purged him four times in the course 3 is. of castor oil with cinnamon water, appearance in centre. He was ordered The stools were copious and of dark-grey nearly clean and dry, with little white warm; pulse 92, soft, and weak; tongue thirsty; eyes blood-shot; extremities or purging, but is anxious, weak, and Dec. 2d .- Has had neither vomiting

but took no medicines except two doses



6. A portion of the fluid was exposed to heat, gradually increased to 212°; it neither coagulated, nor did any precipitate form.

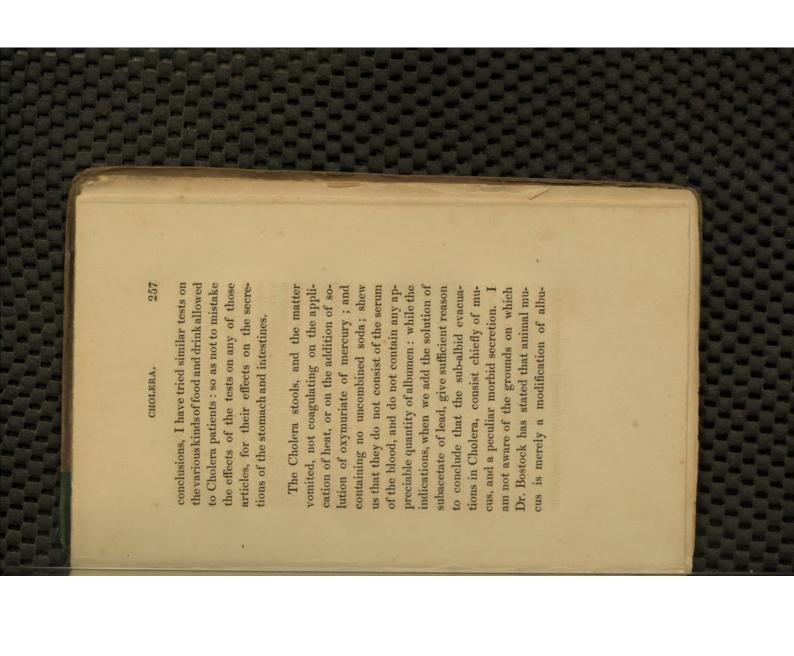
7. Another portion of the fluid was tested with solution of oxymuriate of mercury; which slowly produced a slight turbid appearance, and in twelve hours a minute mucilaginous deposit took place at the bottom of the test tube: the fluid above being opalescent.

8. Solution of subacetate of lead, dropped into another portion of fluid, in a tube; produced an immediate curdled appearance, which soon subsided in a dense white mass, and at the end of twelve hours was found to occupy $\frac{1}{10}$ of the tube that had contained the fluid tested: the liquid above was quite clear.

 Another portion of the fluid was tried with pure alcohol; which produced no turbidness, nor precipitate.

10. Infusion of galls was added to another portion of the fluid in a tube; which slowly produced a slight mucilaginous precipitate, of a pale-fawn colour, which was easily diffused through the liquid, when the tube was shaken.

To avoid the probability of erroneous

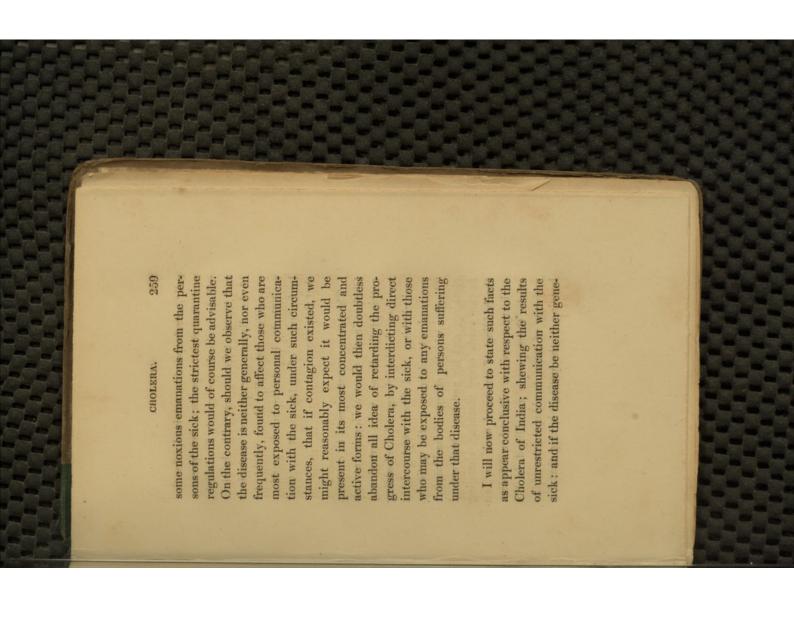


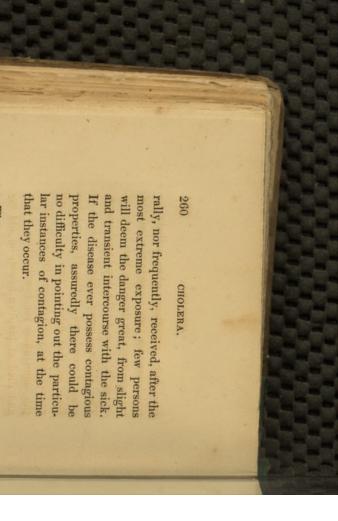
men*; though I am ready to place the highest confidence in his opinions.

FACTS RELATIVE TO CONTAGION IN CHOLERA.

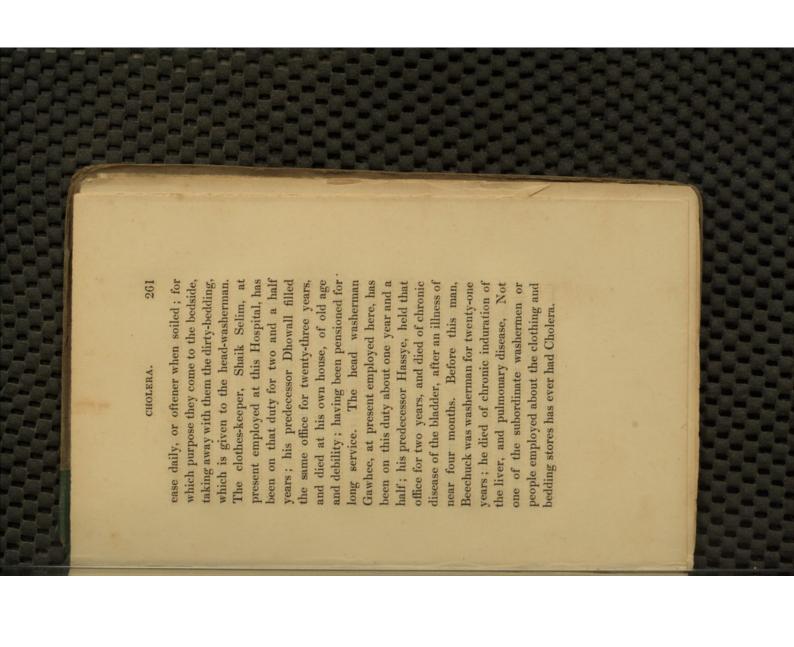
It is an object of much importance to ascertain, if possible, whether Cholera be a contagious disease, and liable to be communicated generally to those in health, by means of a virus generated about the persons of the sick: and conveyed either indirectly, by means of clothes or goods: or received directly, by personal contact or near approach to patients: whereby the disease is produced, independent of other exciting causes. If it should appear, that Cholera is generally propagated by means of

^{* &}quot;Animal mucus appears to be nearly related to albumen, and indeed the constituent upon which its characteristic properties principally depends, would seem to be a mere modification of this substance."—Bostock's Physiology, vol 1, p. 48.



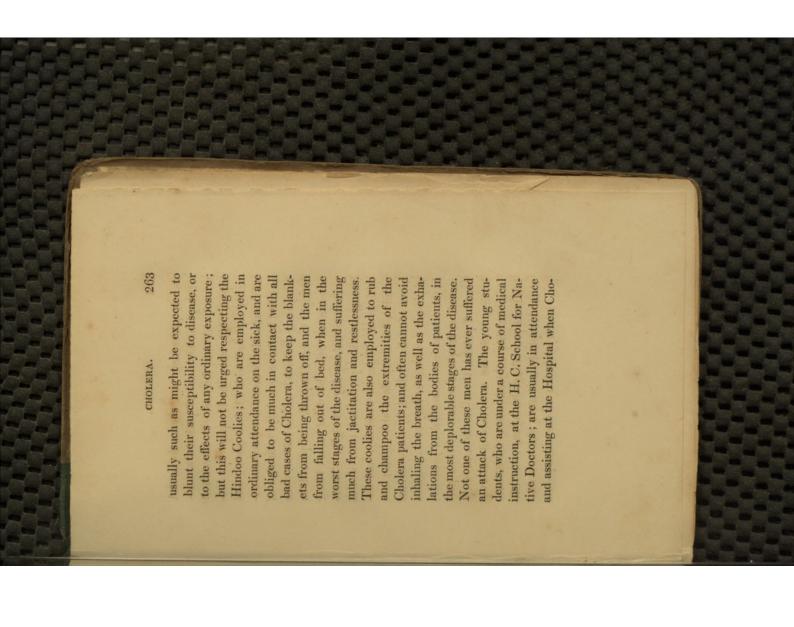


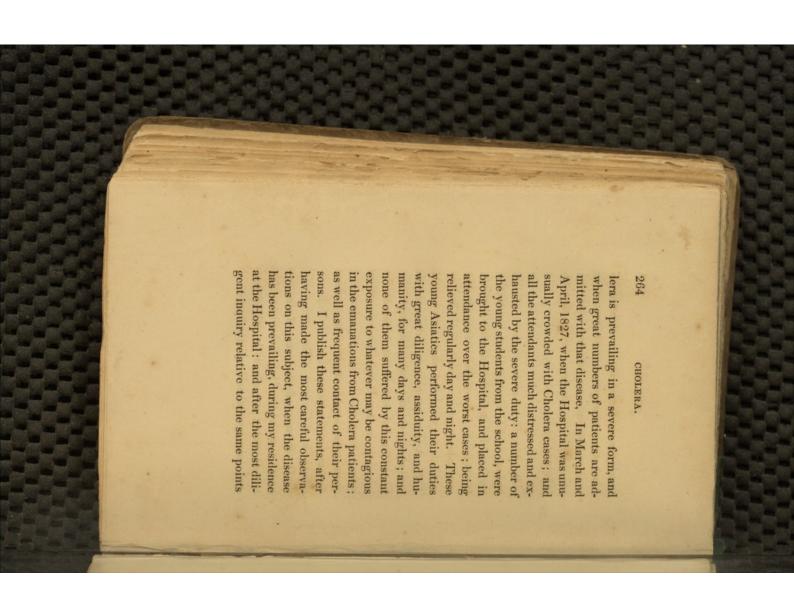
The persons most exposed to contract Cholera in the General Hospital at Calcutta, (if the disease were contagious,) are those having charge of the bedding and clothing, and those employed in personal attendance on the patients. The man who has charge of the Hospital clothing, and his assistant, both attend in the wards every morning, changing the bedding of one ward each day, on ordinary occasions. But when Cholera exists, these people are obliged, in the majority of cases, to change some of the bedding of the patients having that dis-

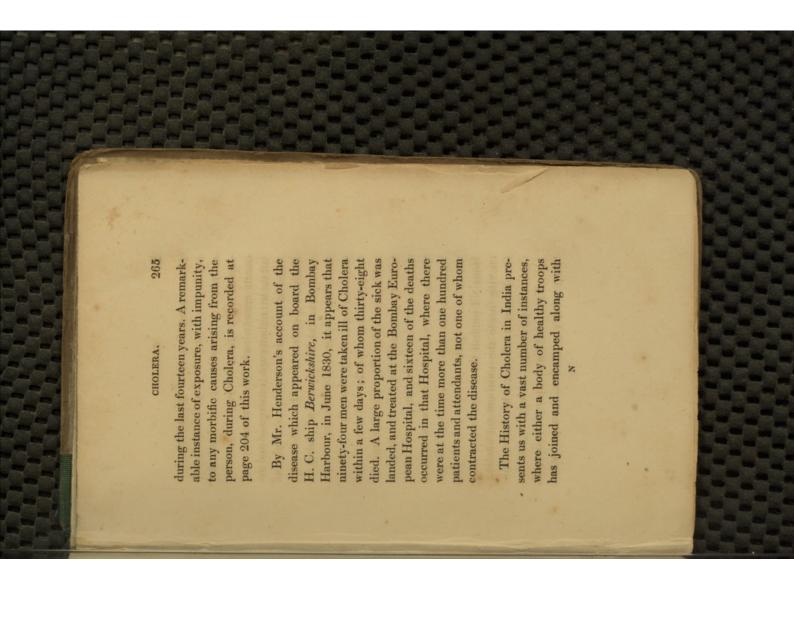


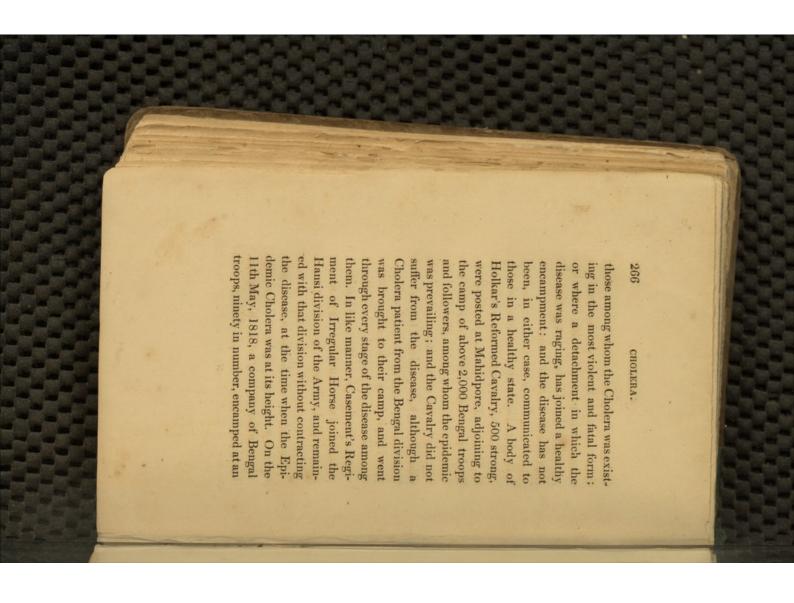
be attacked with the disease. character, and asserts that he has never ployed at the Hospital for twenty-six at their duty, has been constantly emand attends with them alternately, while known one of the Hospital servants to years. He is a clever man, of good dresser, who instructs the subordinates of these men has ever suffered from the disease. Buctourie, the head native ters, and applying sinapisms: not one arms of such as are bled; dressing blisleech-bites, and the bandages to the the sick, changing the applications over most unreserved communication with The native dressers have daily the

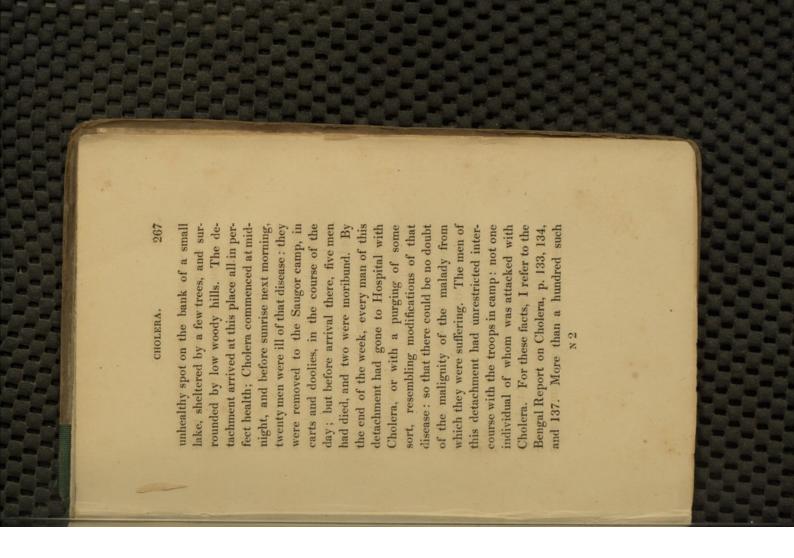
The sweepers who clean and change the close-stools, as well as the pans in which the matter vomited is received; and who wash those patients who are helpless; have never been known to suffer from Cholera. It may be supposed that the occupations of the sweepers, are



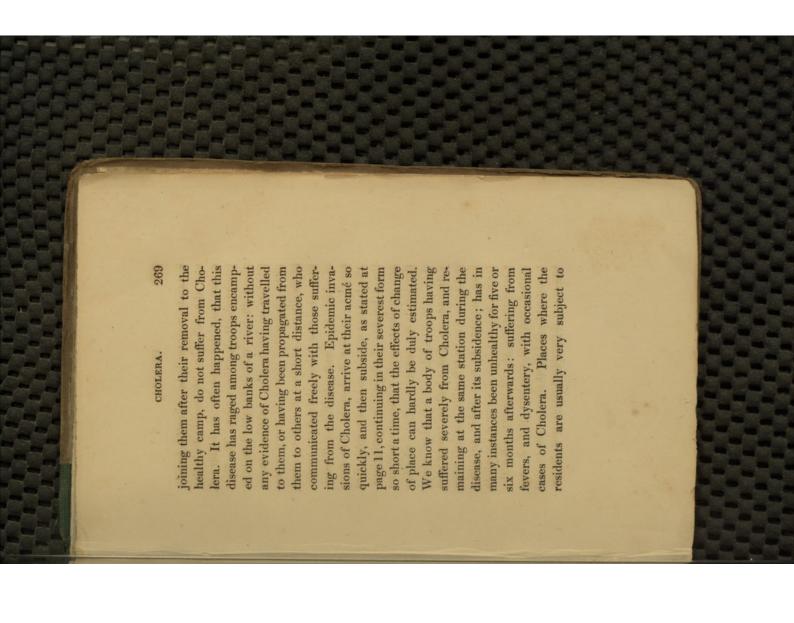


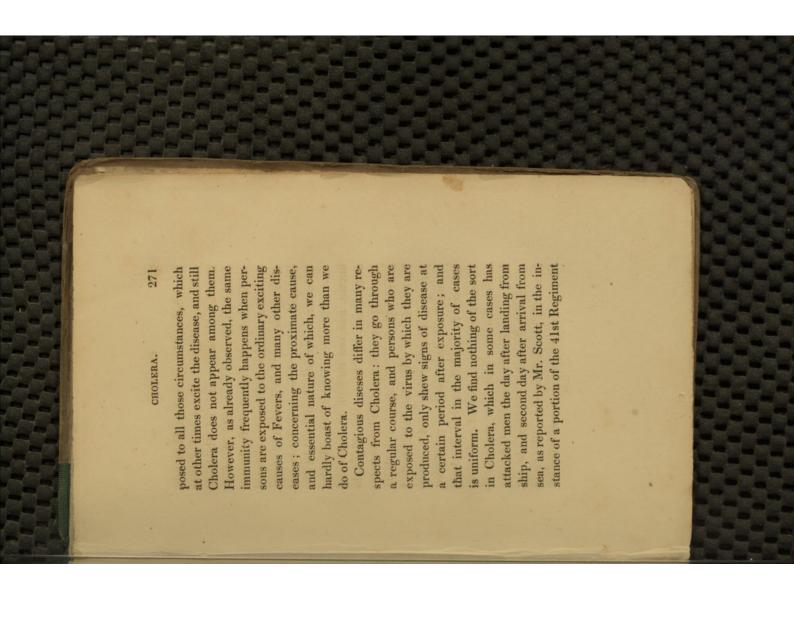




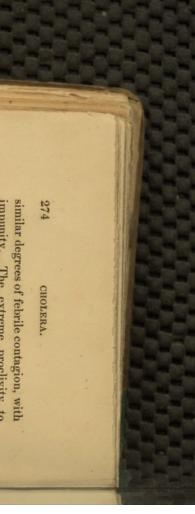


It appears, that a body of troops joining a camp at an unhealthy station, after long marches, is very liable to suffer from Cholera; but if a camp in which Cholera exists, should move to a healthy station, and still numbers of their men continue to fall ill of the disease, in consequence of their past exposure; troops





no progressive course, or succession of at the end of another week, the severe are destroyed in three or four days, and form of Cholera disappears. There is who were suffering from the disease. Those who are sickly and predisposed, had no sort of communication with those instances, attacking persons who have forth suddenly, affecting numbers of served among numbers of the inhabitants; persons at the same time; and in many after which the Epidemic Cholera bursts that a short time before the appearance nausea from slight causes, have been oborgans, and tendency to diarrhoa and town; a disordered state of the digestive of numerous severe cases of Cholera in a with the locality: for it often happens, on some morbific influence connected conclude, that the disease is dependent Cholera at a station, we find reason to nected with any attack of Epidemic mine critically the circumstances con-

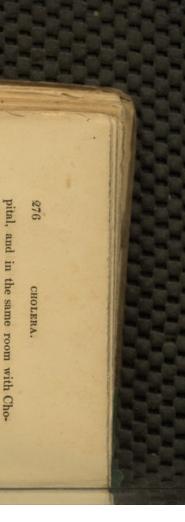


similar degrees of febrile contagion, with impunity. The extreme proclivity to Cholera, produced by debility, from whatever cause it arises, is also a very remarkable fact.

into the low form of Cholera, with early treatment for other diseases, to lapse dency among the patients who have there has evidently been a strong tenvalescents attacked in Hospital; and sions of that disease into General Hospicutta, and we have had numerous admisemployed in the General Hospital, and emption from Cholera, of those persons accession of collapse, coldness, and cesbeen for many days, or weeks under have very frequently had sick and conbeen much crowded at the time; we tal, more especially if the wards have Epidemic Cholera has prevailed in Calconstant communication with the sick; who were most exposed to unreserved and I am desirous to mention that when Having already stated the entire exsation of the pulse.* It has generally happened that those attacked in this manner, have been in parts of the Hospital remote from Cholera patients; tion with those who were brought in living at various and distant parts of very often in a different building, and precluded from any direct communicawith Cholera. Moreover, these cases have generally happened at times when were frequently occurring in persons we knew that severe and sudden attacks of the disease occurring in Hospital, the town and suburbs of Calcutta.

I have never known a man to be atbed was next to that of a man suffering other diseases, in men already in Hostacked by Cholera in Hospital, whose from the disease: and the only two instances where Cholera supervened on

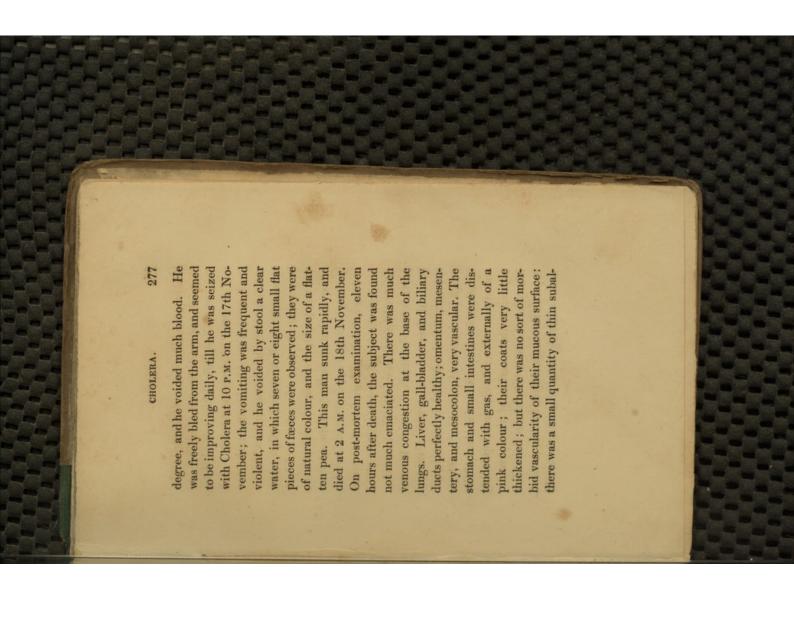
* See pages 15 and 20.



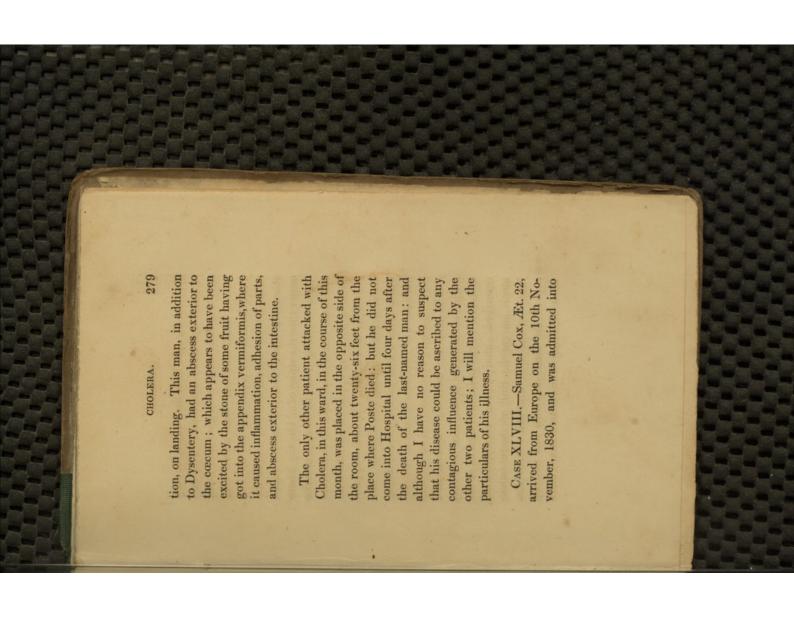
pital, and in the same room with Cholera patients, were the following:

Case XLVI.—Benjamin Fowle, was admitted into Hospital on the 15th November, 1830, labouring under Cholera in an advanced stage of collapse; he died in the course of the night. His bed was the fourth from that of the patient whose case is next to be mentioned.

Case XLVII.—James Poste, a tall man, 20 years of age, recently arrived from Europe: came to Hospital at 8 a.m. on the 14th November, 1830. He had been ill fourteen days with dysentery, and induration of the cœcum; for which he had used calomel, and his mouth had been sore for one week before he came under my care. On admission, he was suffering from pyrexia, induration of the belly, and the usual dysenteric symptoms in an aggravated

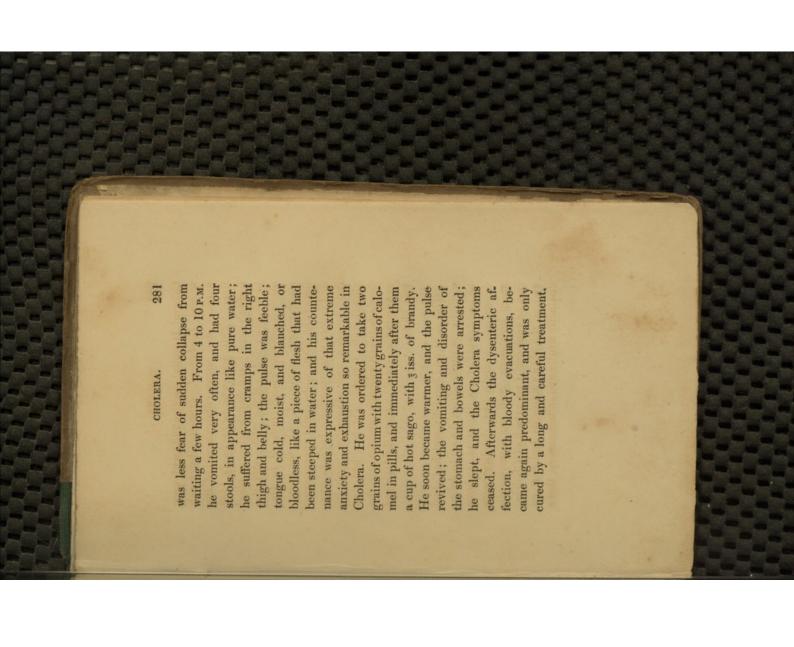


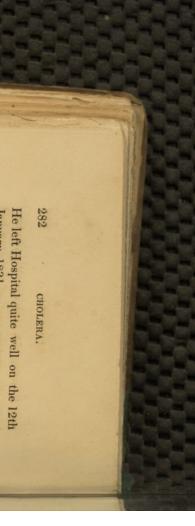
were suffering from a scorbutic condirope, in the same ship with this patient, Many of the men who came from Euulcers on the interior of the intestine. transverse colon; but no corresponding cous membrane: there were several dark whole of the colon, except the ascending blotches, on the peritoneal surface of the purple ecchymosed spots, like scorbutic perficial ulcers were observed on its muportion, was contracted, and a few sudix into the intestine was closed. The and the natural aperture from the appennicating with the appendix vermiformis: abscess a small rounded earthy mass, intestine, but a small aperture commuwas no opening from the abscess into the larger than the stone of an olive. There cum and the iliacus muscle; and in the much induration, found between the cawas a small abscess, surrounded with cum was distended with gas: and there stomach and small intestines. The cœ-



General Hospital on the 22d, with very severe Dysentery, attended by much pyrexia, and some enlargement of the liver. This man was twice freely bled from the arm; and had leeches applied to the belly daily till the 25th; and the other remedies usually ordered in Dysentery were employed. On the morning of the 26th, some slight appearances of Cholera were manifest; such as anxiety, languor, and exhaustion, with inclination to vomit. He had had ten stools between midnight and 6 a.m.; the evacuations a scanty watery fluid, tinged with blood.

The case was carefully watched, and medicine omitted. From 6 A.M. to 4 P.M. he had twenty stools, the same as above described: anxiety and debility were much increased. Still we were unwilling to consider it an attack of Cholera, and as the man's ailments had been so distinctly febrile and inflammatory, there

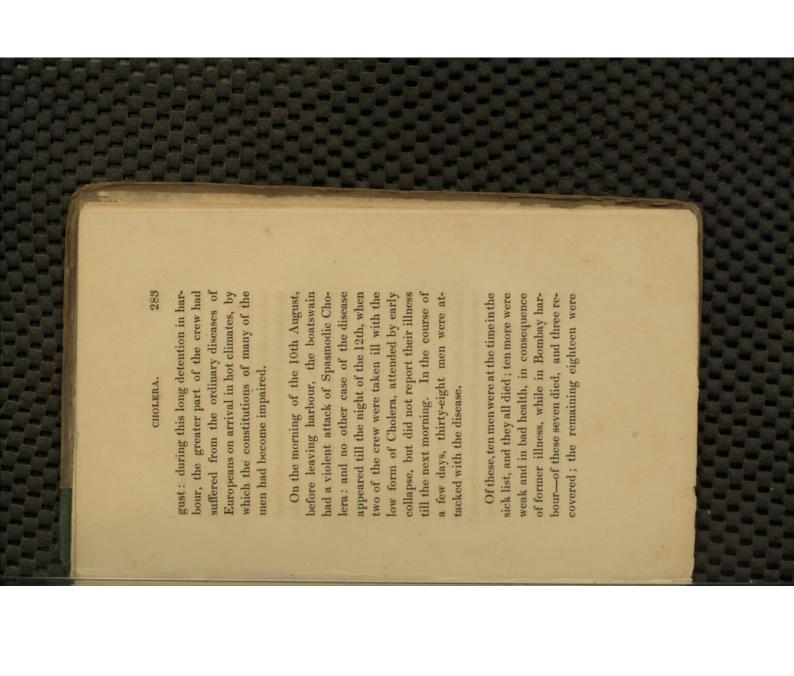




January, 1831.

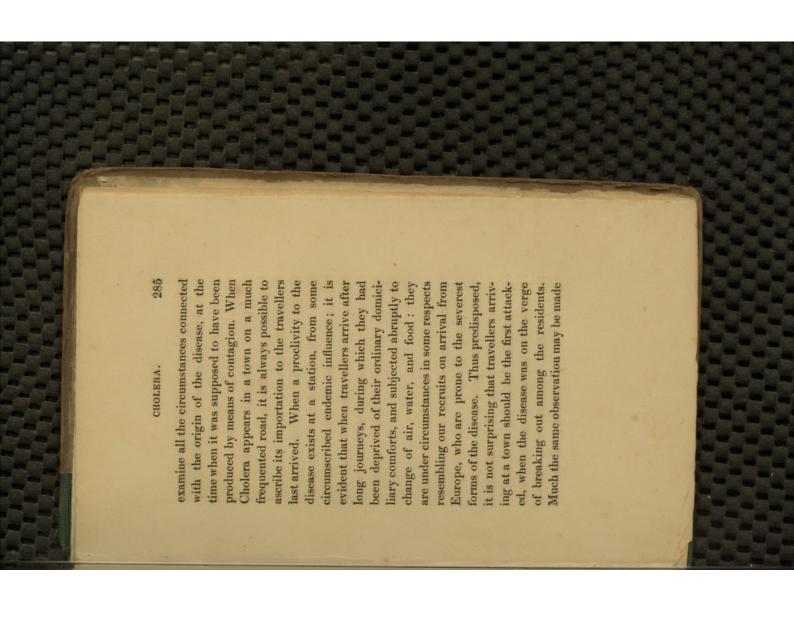
proved contagious. aggravated forms of Cholera have ever acquainted with the history of any hosof the worst description; but I am unpital, which affords proof, that the most Hospital very liable to attacks of Cholera larly bowel complaints, render patients in diseases of any sort, and more particu-We have no doubt that debilitating

China on the morning of the 10th Au-June, 1828, and sailed from thence for Europe, arrived at Bombay on the 4th of Cholera. That ship, direct from of the proclivity which debility and imworst and most untractable descriptions paired health induce to attacks of the lera on board the H. C. ship Abercrombie Robinson, exhibits an excellent example Mr. Hitchcock's account of the Cho-



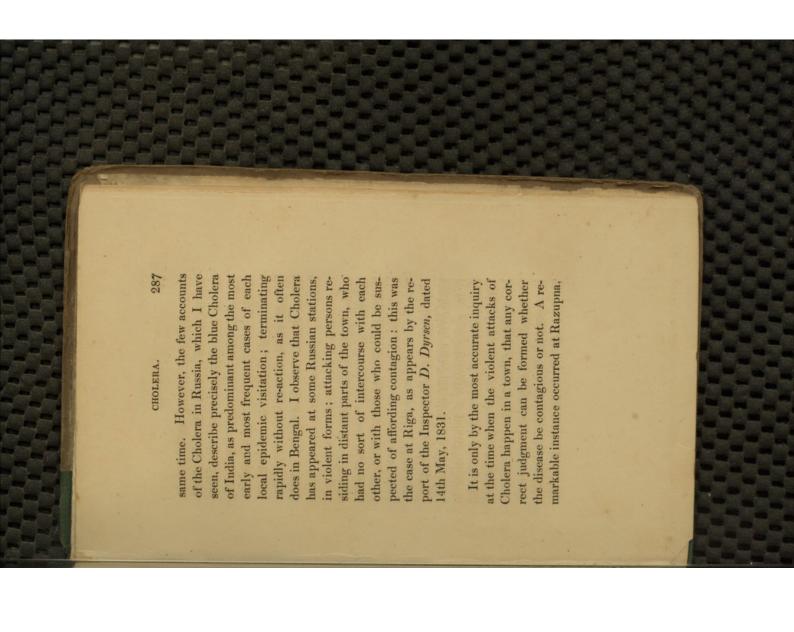
weu, and at duty when attacked—of these seven died, and eleven recovered. The men who first fell ill, with the exception of the boatswain, had the low form of the disease, which commenced with collapse; those occurring at a later period suffered from the inflammatory and febrile form of Cholera. Mr. Hitchcock's narrative is the most complete account I have seen of a local epidemic attack of Cholera: it exhibits all the circumstances connected with the disease on board a ship, whose crew consisted of about 150 men.

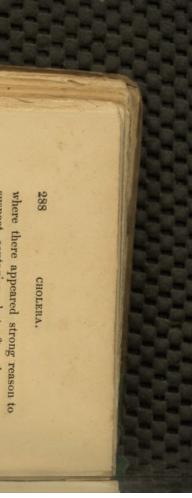
When we observe Cholera to have appeared progressively along great roads and navigable rivers; where frequent communications by travellers, and much commercial intercourse exists; the idea of contagion is readily suggested, and it is not easy for any one to give positive proof that such idea is erroneous, except a person were on the spot, and able to



respecting ships trading to a port at which Cholera appears: the arrival nearest to the appearance of Cholera is likely to bear the blame of having brought the contagion. If we assume that Cholera is contagious, and look only at those circumstances where it is possible the disease may have been communicated by personal intercourse; many circumstances may be found where contagion might be suspected: but proofs of the fact are wanting in India, while proofs adverse to the belief in contagion are numerous.

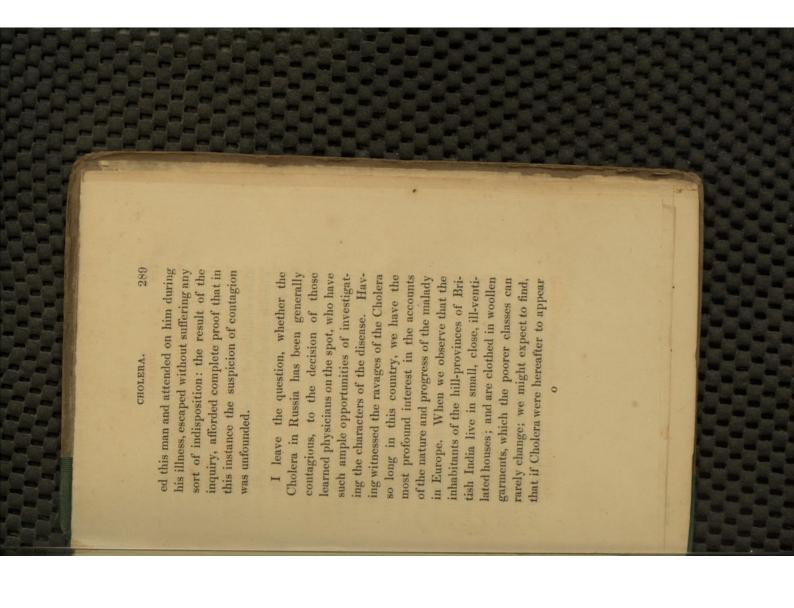
The character which the Cholera has assumed in many places in Russia, namely its going through a febrile stage in almost all cases, prior to the fatal termination; would render it possible that some modifications of the fever may be productive of contagion, among a crowded population, where numerous cases of the disease are occurring about the

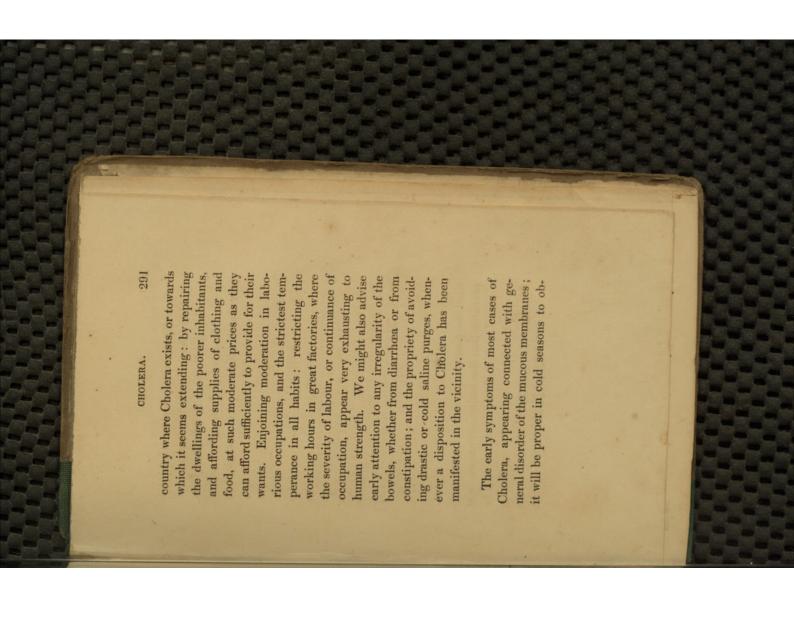


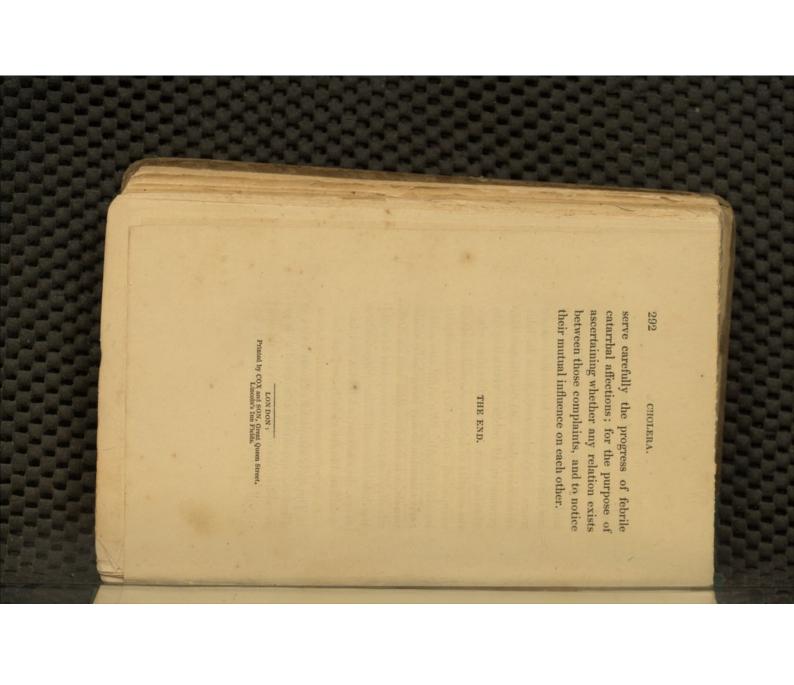


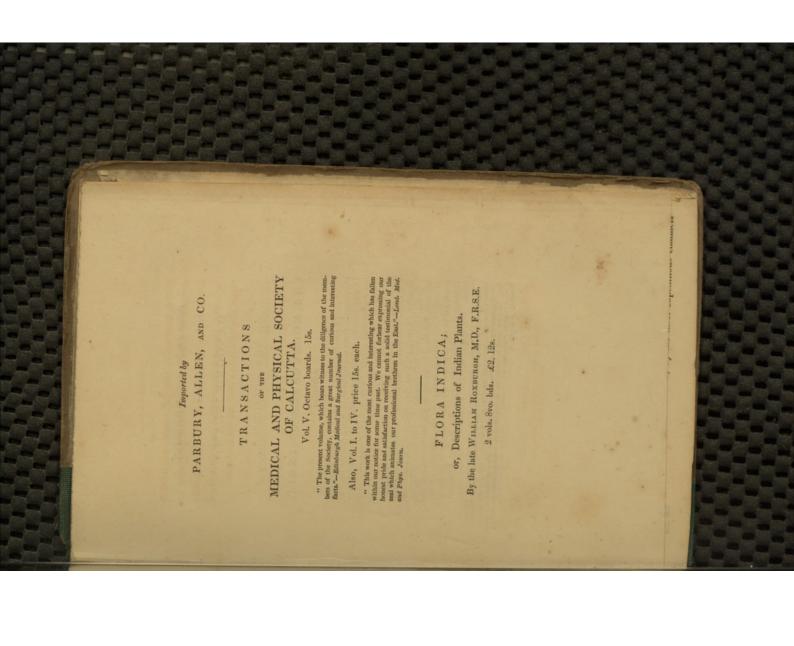
suspect contagion; but after the most rigid investigation instituted by Dr. Schumov, it was proved on the clearest evidence, that there was no just ground for asserting that the Cholera had been on that occasion communicated by contagion. The circumstances alluded to were as follow:

In the year 1830, when the Cholera prevailed at Orenberg, a man went from thence to Razupna; immediately after his arrival at that place, he was attacked with Cholera, and soon died. Four days after this man's death, several of the garrison of Razupna were attacked with Cholera. A most careful inquiry was immediately instituted; whereby it was proved that not one of those who were taken ill, had seen, or attended on, or been near the man who was alleged to have brought the disease from Orenberg: but on the contrary, several persons who had visit-









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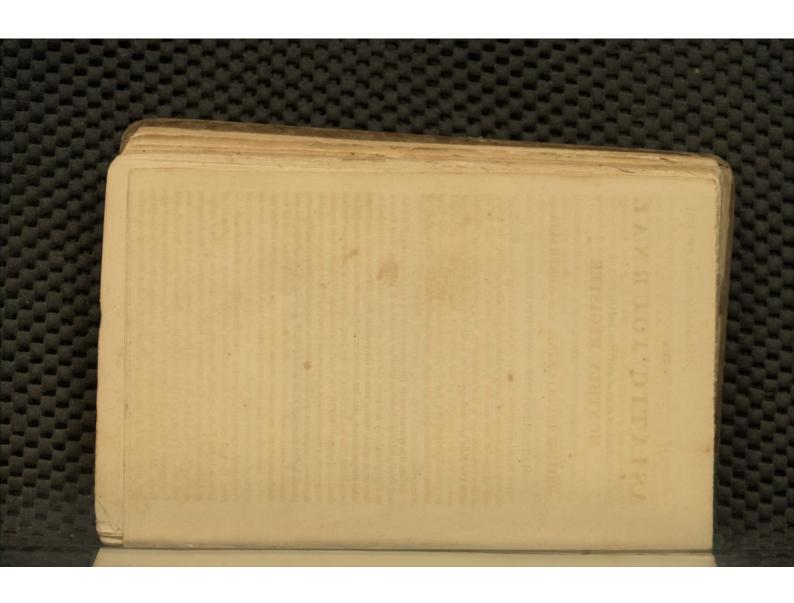
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Nat. size.

Lagomys alpinus, Desm.

PLATE.

BOTANY. Alpine hare.

(1. Anemone discolor. 2. Ranunculus polypetalus, 3. Isopyrum grandiforum. 4. I. microphyllum. Delphnium Cashmerianum. Aconium heterophyllum. Cimicituga frigida.

22,716,747,717

Meconopsis aculeata,
1. Corydalis Cashmeriana. 2. Corydalis Govaniana.

Tauscheria desertorum.

1. Viola serpens.

Grewia elastica.

2. V. reniformis. 3. V. Kunawurensis

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