An essay on the bilious epidemic fever, prevailing in the state of New-York: to which is added, a letter from Dr. James Mann, surgeon-general to the Army; and a dissertation by Dr. John Stearns, delivered before the state medical society, on the same subject; with notes and observations on these productions / by Christopher C. Yates.

Contributors

Yates, Christopher C., 1778?-1848. Mann, James, 1759-1832. Stearns, John, 1770-1848. Waterhouse, Benjamin, 1754-1846. Stringer, Samuel, 1734-1817 Southwick, Henry Collins, 1772-1821 National Library of Medicine (U.S.)

Publication/Creation

Albany: Printed by H. C. Southwick, no. 73 State-Street, 1813.

Persistent URL

https://wellcomecollection.org/works/jzu6umu8

License and attribution

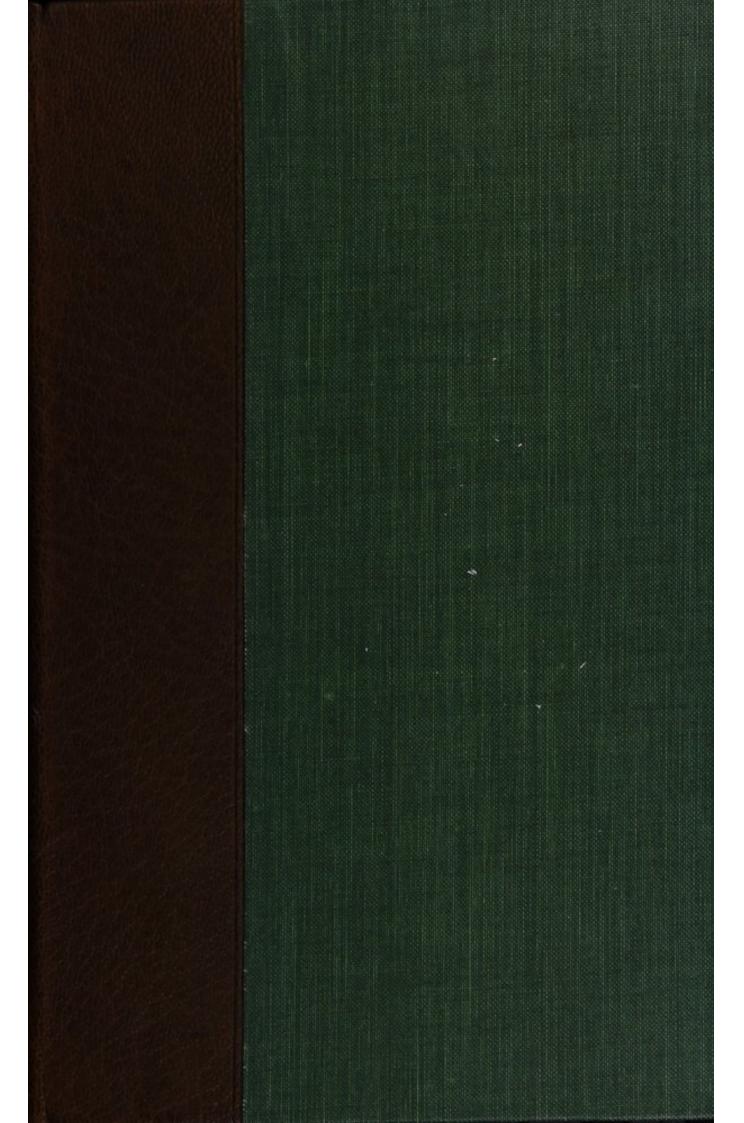
This material has been provided by This material has been provided by the National Library of Medicine (U.S.), through the Medical Heritage Library. The original may be consulted at the National Library of Medicine (U.S.) where the originals may be consulted.

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org





ESSAY

ON THE -

BILIOUS EPIDEMIC FEVER,

PREVAILING IN THE STATE OF NEW-YORK;

TO WHICH IS ADDED, A LETTER FROM

DR. JAMES MANN,

SURGEON-GENERAL TO THE ARMY,

AND A DISSERTATION BY

DR. JOHN STEARNS,

Delivered before the State Medical Society, on the same Subject.

WITH

NOTES AND OBSERVATIONS

ON THESE PRODUCTIONS.

BY CHRISTOPHER C. YATES.

"Experience is the best Teacher."

An old Proverb.

ALBANY:

PRINTED BY H. C. SOUTHWICK.

No. 73 State-Street.

1813.

BA DIMMCHAN SAOFINE CONTRACTOR SERVICE STREET, STR AMERICAN STATES SEVENIES

DEDICATION.

TO DR. SAMUEL STRINGER.

MY WORTHY FRIEND,

ARGOST June 4, 1957.

Placed as you are, above the jealousies and prejudices of our profession, after having toiled in its arduous pursuits upwards of fifty years; and encircled as you are by an affectionate and happy family, and endearing friends, as a reward for the benefits you have rendered mankind in the character of a Friend, a Patron and a Physician; I take peculiar pleasure in dedicating to you this short Essay, as a public testimony of my respect for your private virtues, and your acknowledged medical talents, as well as for your distinguished friendship and benevolence to me as a faithful Tutor and kind Patron.

I sincerely lament that the following pages are not more worthy of this dedication.

I am, dear Sir,

With sentiments of gratitude and esteem, Your sincere friend,

C. C. YATES.

Albany, Feb. 1813.

ZODRÁDIONE

ACOUST LAURING HE OF

The contract of the contract o

STORED AND THE STATE OF THE STA

PREFACE. She author

THE great mortality produced in different parts of this state by the disease which is the subject of the following enquiry, and the many different opinions which have been formed of its nature and mode of treatment, have induced me, at an earlier period than I could have wished, to furnish the public with some general remarks on it.

As no observations have been published* from any physician, whose experience might have enabled him to give a history of the disease, and point out a rational mode of treatment, I have deemed it a duty I owe to society, to give such information on the subject as I have been able to obtain.

My inability to furnish a faultless and learned dissertation on so important a disease has not deterred me from attempting a description, I hope at least intelligible, and a method of cure which I flatter myself will be found successful.

It was painful to my feelings to be daily informed of the many deaths that occurred in the neighboring counties, and that such deaths were probably the result of improper treatment. I had heard that in some cases the lancet was used with freedom, and in

^{*} Except the Letter from Dr. Mann, and Dr. Stearns's Dissertation, which have made their appearance within a few days.

others that large draughts of brandy and laudanum were administered as the only hope of saving the patient.

From this diversity of practice, and its unfortunate result, it became the duty of any physician who had had experience in the disease, to publish the result, and thereby enable others to improve by his success, and guard against error. Had this been done at an early period, hundreds of valuable citizens who have fallen, and are now mouldering in the dust, would still have been living monuments of gratitude to the author.

ESSAY, &c.

THE fever which is the subject of the following remarks, made its appearance in this city in the month of October 1812.

The few cases that occurred were slight, and excited no suspicion in the physicians of possessing any very extraordinary characteristics. About the middle of December many of the citizens were attacked with it in a severer degree than usual from the common colds of the season, but their suspicions were not excited till the beginning of January, when a few cases assumed the deceptive appearance of violent pneumonic inflammation; the remedies suited to the treatment of an inflammatory diathesis failed in these instances, and I think no physician in this city will at this day deny that they aggravated the disease and hastened the dissolution of the patients. Now for the first time, citizens and physicians became alarmed at the existence among us of the fever which in 1811 had raged with alarming destruction in the southern counties of this state.

We were reminded of the great mortality at the north and west, for the last year, where the soldier and the citizen were indiscriminately carried off in a few days, or in a few hours, by a fever, new and unmanagable by the physicians of the army and of the country where it prevailed. Among the soldiers it proved

very mortal on account of their exposed situation, to which was soon added the inclemency of the season. A want of proper nursing, and a strict attention to medical instructions, must have rendered the care and skill of the physicians unavailing in numerous instances, and their want of success might with much reason, and certainly with more charity, be attributed to that misfortune.

During the summer and fall of 1812, a considerable number of deaths occurred in the encampment at Green-Bush, of this prevailing epidemic. How far the treatment of the complaint influenced this mortality I shall not here undertake to discuss; but if my information is correct, two very opposite modes of treatment were pursued. The physicians of the army treated it as a highly inflammatory complaint, while those from the city, who were occasionally called in to assist, treated it as a disease putting on the character of typhus fever. By the first, the lancet was used with a liberal hand, and not confined to one or two bleedings. By the latter, brandy and laudanum were from the first attack exhibited with freedom and without measure. How far this disagreement in practice proved injurious, I am not propared to determine

The alarm thus excited in this city drew on the physicians an awful responsibility—they felt that they had to contend with a new and unseasonable enemy, and they appeared as readily to embrace new and unseasonable weapons to annoy or destroy it. We had heard much of the good and bad effects of bleeding—much of the good and bad effects of stimulating; those who depended on the opinions and reports of others,

adopted either the one or the other remedy, as their judgment or fancy dictated—while others were guided by their own observations and a careful watching of the symptoms, and transient or permanent effect of their medicines. While one treated it as eminently sthenic, and another as eminently asthenic, without an eye to the proximate cause, a third rejected all opinions that were not warranted by the most obvious facts; their plan was the removal of offensive bilious secretions, the existence of which was rendered evident by every emetic and cathartic that were administered during the continuance of the fever. They did not feel themselves justified by the pulse to bleed, and used stimulating medicines, even after the most thorough evacuations, with a cautious and hesitating hand.

During the month of January, and in the midst of this clashing practice, many patients who were attacked with this fever, died. The mortality, which was not confined to the prevailing epidemic, became so serious in the city and Colonie, as to induce the Legislature, now in session, to take measures to enquire into the state of health of the city, and had it in serious contemplation to adjourn. A very fascinating preventative now became the order of the day. Brandy was cried up as the sovereign remedy against the prevailing fever-and was freely indulged in by those who had heretofore but seldom used it. How far this had a tendency to predispose to the complaint I cannot tell, but what thinking physician will not agree with me that it must have been, at this season of the year, a powerful predisposing cause.

In this state of things I found much to lament and much to rejoice at. While some physicians were so unfortunate as to lose many with the fever, I felt grateful that I had as yet lost none. I felt happy that I stood not alone in this situation—two other physicians of extensive practice had been equally fortunate; their mode of treating the disease was generally the same with the one I had adopted; and until the 26th of January, had lost but one patient each.*

Encouraged by this circumstance, I was induced to comply with the polite request of the Editor of the Albany Register, to furnish him with my observations on this disease—when I sent him on the 26th of January the following communication.

To S. SOUTHWICK, Esq.

Dear Sir,

I have complied with your request to furnish you with some account of the disease at present prevailing in this city, called by some a typhus fever, and which has proved mortal to many of our citizens. I am well aware of the incompleteness of this statement. It is short, but faithful, so far as my observations have enabled me to examine the disease.

The first case I saw, was in October last, in a young man of about 20 years of age. He had resided all the summer at the Camp in Greenbush, where the disease then prevailed, and had proved mortal to many

^{*} Dr. Wendell informed me this was one of his first cases, and was the first and only one he bled: And as late as the 10th February he informed me he had not lost another.

of the soldiers. He was seized with pains in his side, knees and shoulders, the common effects of a coldhis pulse was weak and very little quicker than in health-his eyes appeared to indicate an increased and inflammatory action in the system, which was contradicted by his pulse—this inflammatory appearance induced me to bleed him. I took about eight or ten ounces of blood; this relieved him for a few hours only. I gave him jalap and calomel, which operated slightly on his bowels-the continuance of pain in his side, induced me to lay a blister plaister on the partthis gave him little relief. I prescribed the usual fever powders, composed of nitre, calomel and tartarised antimony-gave him sweating draughts-his skin continued dry, but not preternaturally warm. Under this treatment the frequency of his pulse increased, and he grew delirious. I now had recourse to wine, camphor, laudanum and bark-he continued delirious and died on the seventh day.

Since the above, no case occurred in my practice till about the middle of November, when in the course of a few days I visited two young men—in these cases the pulse and other prominent symptoms which marked the first case, were the same. I did not venture to use the lancet—I prescribed an emetic; this brought away much bilious matter, and relieved the pains in general. I followed this with a dose of jalap and calomel, and thereby cleared the bowels well. After these evacuations my patients were easily disposed to sweat, which was encouraged by hot cataip or balm tea—medicine was now discontinued, and they recovered easily.

Since the last two cases, one or more occurred every few days, some slightly, others more severe. The patients now complained of pains in different parts of the body—the heels, ancles, knees, hips, small of the back, shoulders, breast, side and head, a heavy and painful sensation in the eye-balls; they suffered under these pains at different times, and often at the same time.

The most distressing chills sometimes ushered in the My patients told me the chills were different from any they ever felt before-they were peculiarly agonizing in some; and in the language of two, "they were like throwing cold water on their hearts." The tongue at first always pale, and its secretions inactive. This paleness of the tongue continues in the worst stage -pulse in almost all these cases very little different in frequency from natural, but the sensation given to the finger by the artery, peculiar and new to me: it appeared that during the intermission of each pulsation, the vessel had completely emptied itself. The pulsations, though they appeared to distend the artery to its usual capacity, were weak and languid. In short, it exhibited every mark that would deter a prudent physician from bleeding.

In a majority of cases they complained of pain in the right side, and across the breast, with the last symptom, a slight but frequent cough was frequently attendant.

I have scarcely in any case derived benefit from blisters; small doses of laudanum, frequently administered, alleviated, or removed those pains.

I never ventured on laudanum (of which I seldom

gave more than 100 drops in 24 hours) until after having freely evacuated the stomach and bowels; over the latter I kept a perfect command with gentle laxatives, which never failed of carrying off great quantitities of green colored and sometimes very fetid stools.

This plan in the first stage of the complaint seldom failed of entirely removing the most distressing symptoms—the appetite returned, and food completed the cure.

In the second stage, the pulse became quick,* feeble, and often hardly perceptible. This generally took place on the third day.

If no favorable crisis had taken place at this time, the pain in the head or side would return, with sometimes a burning sensation at the stomach, attended with more Now the breast suffered the most disor less nausea. tressing sensations from an incapacity to fill the lungs by inspiration—this was not prevented by acute pain, but a deadly suffocating pressure on the air vessels. Notwithstanding the debilitated state of my patient, I again repeated the emetic combined with calomel; the consequence was a dark green bilious emission from the stomach, and an evacuation of similar matter in vast quantities by stool. This never failed of restoring them to comfortable rest, but in the course of a few hours were again threatened with their former distress —this was corrected by small and often repeated doses of jalap and soluble tartar, which kept the bowels clear from the morbid matter as fast as it was poured into them, which in some cases was immense.

^{*} Some patients of full and strong habits had a quick but weak pulse from the first attack.

While pursuing the evacuating plan as above described, in this stage of the complaint, I found it necessary to keep the patient from sinking, to administer laudanum with the sweet spirits of nitre, or vitrolic ether in small doses every two hours; with these medicines I found no difficulty in supporting them under the severest evacuations.

About the fifth or sixth day, the discharges became more natural, the appetite returned, and health was speedily restored by food.

The foregoing plan of cure has been pursued by me with little variation; and every case of this misnamed terrible fever, which has come under my observation, (except the patient who died in October,) has yielded to it; and none, except one solitary case, has been confined to the room beyond the ninth day. The last excepted case was an old man,* who, I thought, for some hours, irrecoverably gone; the arteries, at the wrist, ceased beating for nearly half an hour. Large doses of laudanum and ether restored him. When a little revived, I administered a powerful cathartic, and ordered injections, which brought away large quantities of morbid, bilious matter. This added to his relief, and he is now mending as fast as can be expected, from the low state he was in.

My friend, Dr. B—, with whom I have frequently communicated on the nature of this disease, accords

This patient has since died—he had regained his appetite, and was gradually gaining strength—pulse good—no fever. While sitting by a very hot stove, he grew faint and languid, with some assistance walked to his bed, fell instantly into a state of perfect stupor, with his jaws firmly locked. I could not get medicine down—he continued in this situation 48 hours, and died.

with me in the general treatment of it, and am happy that I can confirm its propriety by the equal success he has met with, having lost only one marked case, to which he was not called till some days after another

physician had abandoned the patient.

Were I disposed to theorize on the proximate cause and effect of this disease, I should say, that the liver is the reservoir from which this noxious matter is diffused through the system; its deleterious particles entering the blood-vessels, contaminate that fluid, tend to destroy its vital principle, and of consequence, lessen the energy of the arterial system. This appears to be evinced more particularly in the most alarming stage of the disease, when those symptoms appear, that have been called Peripneumonic, when the breathing is short and suffocating, and the face becomes livid; sometimes the vessels of the cheeks become turgid, and of a dark purple colour; denoting a want of oxygen, that vital principle of the blood, so necessary for the support of life. Hence, the universal langour, the almost instantaneous depression of strength and spirits, the want of nervous energy, the perishing action of the extreme vessels, producing the most unusual and distressing chills, and the almost insensibility to external heat, when first attacked. All these tend, in some measure, to warrant a suspicion of these facts. But this is mere speculation; all we know is, that the morbid matter exists, and is creating from time to time, that the effects are as I have partly described them, and that a speedy removal of this secretion is the only way to terminate the disease favorably.

The ill success attending the treatment of this disease is to be accounted for in two ways. First, by bleeding, and second, by administering great quantities of laudanum, brandy, wine or bark; either of these stimulants even in a moderate degree, must prove fatal, unless the stomach and bowels are kept free from mor-

bid secretions, by emetics and purgatives.

If you intend to publish the above observations, permit me to add, that I have not the vanity to suppose, that they will enlighten any of my professional brethren in this city. Their experience must have been sufficient to have taught them the most eligible mode of treating the complaint. I have made them to gratify your request, and if they should prove serviceable to any physician, in whose neighborhood this disease may hereafter make its appearance as a stranger, it will be to me a pleasing and happy reflection.

Yours, &c. A. B.

Albany, 26th Jan. 1813.

The evening of the same day, on which I sent this communication, I lost a patient, and another the next morning. I was not long at a loss to account for this misfortune—they were both, in the latter stage of the disease, exercised with the most excruciating pains. I now had to receive my most important lesson in this complaint, though at the expense of my patients lives, viz. that stimulants were in no shape necessary, if not hurtful. While their agonizing cries and the sympathies of their friends called on me for temporary relief, I administered Laudanum and Ether more liberally than usual. I found to my mertification, that the relief they

gave was but transitory, and that they counteracted the intended effects of my evacuating remedies, which I administered very freely in anticipation of costiveness from the laudanum. I was dissppointed—I felt confident much morbid matter was to be carried away, which was fully evinced in the last, but partial discharges, being of a dark color, similar to strong lie.

These two cases determined my future conduct; I had at this time two more patients in the same danger-ous situation, I immediately withheld Laudanum and Ether, and depended solely on emetics and cathartics to alleviate the excessive pains and difficulty of breath-

ing; in this I was completely successful.

I made this fact known to Dr. Bay, who informed me that he had already become familiarized with it in two or three instances, in which the most moderate stimulants had a tendency to aggravate the disease, and that had he not discontinued their use, he believes he should have lost his patients.

Since the loss of the above two patients, I have not given a particle of diffusive stimulants, except a little warm spiced wine as a tonic, after the fever had formed a crisis, and the bowels assumed a healthy action. I have since this, also, had many with the most distressing symptoms, in all the variety of danger in which the disease has appeared in this city, and to this day (10th Feb.) have not lost another patient.

Having become more familiar with this disease since the foregoing communication, I shall enter more fully into a description of its symptoms, nature and treatment.

The REMOTE CAUSE of this fever appears to be general, being confined to no particular district,

town, city or village. From this circumstance we are induced to consider it as existing in the air—how or from what cause we cannot tell.

The EXCITING CAUSES may be various; intemperance in eating, or drinking spirituous liquors, fear, anxiety, exposure to excessive heat or cold; in short, all the causes which generally bring on common colds.

The PROXIMATE CAUSE appears to be a secretion of morbid, acrid matter, or vitiated bile; this secretion taking place in so large and important a gland as the liver, on whose healthy action the division and assimilation of our food depends, and the consequent purity of the blood, has a tendency to excite, create and accumulate the sudden, distressing and alarming symptoms, which, as it were in a few minutes, usher in this disease.

We know that when the liver is diseased or morbidly excited, that its secretions are thrown into the blood vessels and circulate with their contents. While this bilious matter retains its yellow color, the skin and eyes denote its existence in the blood, in bilious and hepatic diseases. If it will enter the blood vessels in its more pure state, we cannot deny it that power in its most acrid, dissolved and impure state.

Allowing this, we shall find the blood contaminated with this vitiated bile; but we cannot take another step beyond this, without entering the large field of conjecture. As all theories are mere baubles of the imagination, authors have been more or less successful in captivating their readers, as their imaginations were brilliant or plodding. I presume no one will envy my claim to the latter quality, and permit

me to imagine, that as the blood, by incontestible experiment has been proved to possess a great quantity of iron, and that the existence of this metal is essentially necessary to give it the capacity of oxygenation, which office is performed while passing through the lungs; when the iron, from its great tendency to unite with the oxygen of the atmosphere instantaneously combines with it, and form an oxide of iron which is said to give the red color to the blood-that hence it is carried through the system, that the iron again parts with it to other elementary parts of the system, that heat is evolved, and distributed to every part of the body, and that the blood now assumes a purple color, until that portion has returned to the heart to be re-oxygenated. If therefore by any new combination of circumstances, created by the presence of morbid bilious matter, the iron should, by the formation of an unusual substance, have a greater affinity for such substance than for oxygen; or should be so enveloped in this new combination as to be deprived in a great measure from the contact of oxygen while passing through the lungs, we may perhaps be enabled to account in some measure for the existence of those distressing and unfavorable symptoms which mark the worst stage of this fever.

By this deprivation of oxygen I shall account,

1st. For the difficulty of breathing, which is evidently an oppression, not an accute sensation—it is a sensation of a want of air to fill the lungs, and this sensation will undoubtedly be produced by depriving atmospheric air of part of its oxygen.

2ndly. For the purple colour of the face, and a

similar cast over the whole surface.

3dly. For the decreased temperature of the surface, as well as a sensation of cold through the whole system, denoting a want of animal heat, which can only be furnished by a free circulation of oxygen with the blood through the system—And,

4thly. For the feeble, languid, intermittent and al-

most exhausted action of the arteries.

It is this state of the system which gives every ap-

pearance of malignity to the disease.

I should never have ventured the above opinion publicly, were I not convinced, that however hard its fate, hundreds stood ready to condole with me, and that I was relieving misery by its company.

This disease is confined to no particular stage of life. Children and old people were less liable to it than the middle aged and young. Men were much

more subject to it than women.

PREMONITORY SYMPTOMS were not always discoverable. Sometimes a lassitude and indisposition to action, and eratic pains through the chest and sides, preceded the attack for a day or two, and sometimes the pain in the head and back were so light for two or three days, that the patient felt no disposition to make serious complaint.

The GENERAL SYMPTOMS of an attack of

this fever are,

1st. Cold chills, which last but few hours, and are succeeded by,

2d. A degree of heat on the surface, little above

natural.

3d. Pain in the head, arms, small of the back, and lower extremities.

4th. The blood vessels of the eyes preternaturally distended.

5th. Tongue pale and moist, with little fur.

6th. An uncommon degree of languor and debility pervading the whole system.

7th. More or less nausea and sometimes vomiting.

8th. Pulse weak, soft, and a little quicker than in health.

An increase or severity of these symptoms, premonish an attack which forms the most serious state of this disease, in which case

The chills assume a degree of oppressive anguish to the suffering patient, which to some has been more intolerable than any other symptom, and recur frequently during the first twelve hours; many, however, do not suffer these chills to this excessive degree:

The pain in the head becomes more excruciating, and is not confined to one part; the forehead, back and sides are alternately affected:

The eyes feel heavy and painful, and their vessels become more turgid with blood, which gives them a dull red appearance:

The face exhibits a universal flush in those who in health were not marked with distinct red cheeks, those who were, now have their cheeks more of a livid than red color:

A pain more or less severe in the right side, in the region of the gall bladder, passing up towards the neck, and settling between the shoulder blades:

Faintness, delirium, a suffocating sensation across the breast, with little or much difficulty of breathing, catching at half inspirations, as if the lungs could not

be filled with air, not from a painful sensation, as in Pneumonic affections, but an apparent repugnance in that organ to inhale, as if the air were noxious or impure.

Tongue continues pale in most cases during the continuance of the fever, though in some few instances dry, (and then only for a few hours at a time) and of a yellowish or light brown cast, fur trifling.

Pain in the back and extremities much increased.

A cough and difficult expectoration usually attend. The phlegm is in many cases accompanied with a little blood, but mostly only tinged with it, evidently owing to the violent exertion of coughing, and probably issues from small ruptured blood vessels about the throat.

The state of the stomach appears the same as in common bilious fever, being more or less affected with nausea at the commencement. Some vomit, others incline to vomit, or feel but the slightest degree of nausea. When the vomiting is spontaneous, the matter thrown up is invariably yellow or green colored.

The bowels exhibit nothing peculiar until acted on by medicine.

The skin easily disposes to moisture after the stomach and bowels have been well evacuated. I have found it unnecessary in most cases to encourage perspiration by warm drink; an additional blanket or two will suffice, if the patient does not readily sweat under the usual covering.

The approach of *death* is indicated by a cessation, for many hours, of all distressing symptoms, respiration, instead of laborious, now becomes less difficult,

though short and hurried, and seems to excite little uneasiness—the countenance and surface of the body become livid, or of a lead color, resembling the body of a drowned person; the patient, and attendants unaccustomed to these appearances are flattered with the hope of a recovery.

The method of cure which I have pursued in this disease, I shall state in a few words. When called to a patient labouring under the symptoms of this fever, my first prescription is, in all cases, an

EMETIC of tartarized antimony, sometimes combined with ipecacuanha, and sometimes with calomel. If this operates, the discharge from the stomach is in every case yellow or green bile in great quantities, sometimes mixed with or followed by a whitish, slimy, compact substance; if it operates on the bowels, their discharges are dark coloured, mixed with green bile; and are generally very fatid. If the emetic does not operate as freely as I wish, I repeat the dose. I follow this prescription, notwithstanding it may have operated on the bowels, with a cathartic of jalap and calomel. I hardly recollect a case in which a cathartic did not operate on its first exhibition. I have in no disease found the bowels more susceptible of being moved by a single dose. The cathartic always produced copious evacuations of bilious matter, sometimes assuming the appearance of strong lie. An additional dose on the third day of the disease, often cured my patients in the milder attack.

In the severer attack, I commence in the same manner, with first an emetic, and then a cathartic; if the symptoms become stronger or more violent, my exertions are proportionably so to evacuate the contents of the stomach and intestines.

If the patient grows weaker, and the symptoms do not abate, I repeat the emetic-this throws up in some cases greater quantities of bilious matter than the first I administered. Relief invariably succeeds this last evacuation. I now continue cathartics in smaller doses, but often repeated; for this purpose I have chosen of jalap and soluble tartar equal parts; of this compound I give 20 grains every two or three hours, so as to keep the bowels in motion until the pain in the side and distress of breathing yield; after which I continue it in a limited degree until the evacuations change to a more natural colour, which is generally not till the 6th or 7th day. It is very common for the patient, while in a state of apparent convalescence, to have suddenly a return of pain in the head, or side, and distress in breathing. I now again have recourse to a powerful emetic, and this relieves the patient immediately after its operation; the discharges are as copious, and to appearance as bad as they were in the first stage. These pains always indicate a collection of morbid matter.

I have not, since the 26th of January, given any other medicine in this disease than emetics and cathartics. My whole attention is confined to a removal of the morbid bilious secretions which are unquestionably collected, and continue pouring into the gall bladder—probably giving rise, by distending that viscus, to the pain in the right side.

I have not found it requisite in any case to use medicinal tonics to restore my debilitated patients; when ever the bowels and liver resume their natural and healthy action, the appetite returns, and food becomes the best and most natural tonic, beginning with weak soups, and gradually proceeding to more solid substances.

In corroboration of the justness of these remarks and the success of the mode of cure adopted in this practice, I shall state the following circumstance.

Bush, and in the immediate vicinity of the camp, called on me about the first of January to know my opinion as to the most eligible mode of treating this fever; he told me he had then two patients he was fearful of losing; he had at first freely evacuated the stomach and bowels, and was now giving them the usual diaphoretic medicines, but they were hourly sinking under the most alarming symptoms. I stated to him my opinion of its nature, and the plan I had adopted for its cure. He availed himself of the information, pursued the evacuating plan, and saved his patients; since which time he has continued the practice with equal success.

He lately informed me that he visited a patient whose life had been despaired of, and who was apparently expiring; he had laid for twenty-four hours speechless, and without the ability to move a limb, and appeared in the last and expiring state of typhus fever; his attending physician from this city had pronounced him irrecoverable, having previously advised to give him as much brandy toddy as could be got down. In this desperate situation, Dr. Miller gave him a dose of calomel and jalap; it speedily operated as an emetic and cathartic; the discharges were nearly black, and in

immense quantity—the man revived; the Dr. continued the evacuating plan, and has cured his patient.

In the foregoing remarks I have given only a general history of this disease. Its particulars are as various as they are unimportant in the general treatment. Its general character I have given as faithfully as I could pourtray it, in this, and my former communication.

I might add many important cases to elucidate the truth of my remarks, and insure confidence in the practice recommended; but as I have stated the only two cases in which I have failed, and the probable cause of such failure, and the uniform success which followed the total abandonment of stimulants, I think it would be superfluous to swell these remarks with additional facts of little if any practical importance.

I have on a former occasion said that I was not prepared to name this disease, having found in no author that I had read, a just description of it.

As diseases are generally named from some prominent symptom that characterizes them, I have not hesitated to entitle this a bilious fever; and from its being epidemic, the "BILIOUS EPIDEMIC FEVER."

It has been contended that this fever has been faithfully described by Sauvages, Sydenham, Huxham, and other ancient writers, under the several names of Pneumonia, Peripneumonia Notha, Winter Fever, Peripneumonia Typhoides, &c. That the above diseases, as described by the different authors, have more or less symptoms appertaining to the prevailing fever, I do not question. It is a fact well known to physicians, that almost all fevers have more or less a similitude of symptoms.

I have said that the symptoms of this disease partook of the bilious, gaol, and malignant fever, but more particularly of the latter; and I do not hazard a contradiction when I state that the symptoms of malignant fever are more strongly characterized in this fever than the symptoms of either Pneumonia, Peripneumonia Notha, or Peripneumonia Typhoides; and were it necessary, I could prove that these several forms of diseases had some peculiar and well defined symptoms, which have never occurred in any case of this fever that has come under the observation of our physicians, and are totally inconsistent with its nature and effect.

That the affection of the lungs in this disease is not primary, but sympathetic, appears to me as clear as the sun at noon day. Whenever the biliary secretions and excretions are removed by an emetic or cathartic, the oppression on the lungs immediately yields or vanishes. I have found this affection perfectly under the command of these remedies, and I believe it does in no case exist when there is not an accumulation of these secretions. In many marked cases of this fever that symptom does not exist at all.

In bilious fevers of a malignant tendency, the lungs are not unfrequently affected in this manner.

Dr. Jackson notices it in his treatice on the fevers of Jamaica. He says, Bilious fevers occur in Jamaica which are distinguished by local affections, or increased determination to particular parts in a degree so remarkable as to personate very exactly a peripneumony, a hepatitis, or inflammation of the bowels; the accompanying fever being at the same time so slight, as scarcely to be considered a primary affection."

Dr. Rush remarked those pneumonic symptoms in the bilious yellow fever in 1793; he mentions that many were affected with them, and some appeared to die of sudden effusions of blood or serum in the lungs.

Difficulty of breathing is mentioned by Hippocrates, Galen, Van Swieten, &c. as well as modern writers, as accompanying bilious, malignant, or putrid fevers.

The great affinity this disease has to the malignant fevers of ancient and modern authors, will be seen by the following descriptions.

Huxham says, a severe fixed pain is felt in one or both eye-brows. The eyes always appear very full, heavy, yellowish, and are often a little inflamed. The countenance more dead coloured than usual. The prostration of spirits, weakness and faintness are very often surprizingly great and sudden. The respiration is most commonly laborious.

Few or none of these fevers are without a sort of lumbago, or pain in the back and loins; always a universal weariness or soreness is felt, and often much pain in the limbs. The stools, especially near the state, or in the decline of the fever, are for the most part intolerably feetid, green, livid, or black, &c.

Grant describes malignant fevers as coming with chilliness, succeeded by heat, quickness of pulse, sickness of the stomach, pain in the head and loins, restlessness, thirst and anxiety; but they have one symptom peculiar to themselves, a dejection of spirits and failure of strength far beyond what might be expected from the violence of the other symptoms, and short duration of the fever when not attended with malignity.

This symptom, however, frequently arises from pletheora, or turgid matter in the stomach and bowels.

BROOKS, in treating of those fevers, says the ancients called them continued, quotidian, serous fevers; that at the beginning of this disease, the face of the patient has a morbid aspect, and he is out of order three or four days before he takes to his bed. He complains of a spontaneous weariness, a grievous pain of his body and joints as if his bones were bruised or broken; his strength is languid, his appetite is lost, he has a slight fainting fit, a cardialgic nausea, a pain in the head, an unquiet sleep, with costiveness. In the evening there is a coldness and shivering, followed by heat, the symptoms increase—there is a great loss of strength. pain in the head grows worse, with a giddiness and inquietude. Some have a violent pain in the back, others in the side, the pulse contracted, quick and weak, anxiety about the precordia, and the breathing difficult.

Wilson describes malignant fever as coming with a troublesome head ache, acute pain in the back, loins and extremities, which often resembles a rheumatic affection; a distressing sense of weariness, much thirst and nausea, sometimes attended with a burning pain of the stomach, more frequently by vomiting, vertigo, dimness of sight and numbness of the extremities.*

These authorities have been introduced not from an intention to support what I had formerly said on the subject, but merely to shew that the prevailing fever has a stronger similitude to the bilious, malignant, or

^{*} This symptom I should have mentioned as occurring sometimes in the prevailing fever.

putrid fever of authors, than to either the determined or mixed pneumonic affections, and wants less strong characteristics to make it the former than the latter.

The method of cure also adopted for the former complaint, with hardly an exception, comports with the most eligible mode pursued in the treatment of this complaint, while pneumonic affections of every description are treated with more or less exceptions to this mode; or rather the mode of cure adopted for pneumonic fevers are exceptionable in this fever.

Two communications have lately appeared in our public Journals, purporting to give a history of the prevailing epidemic, and the mode of treating it.

The first was from Dr. Mann, Surgeon-General to the Army, who has undoubtedly had the best opportunity of ascertaining the nature of the disease, and whose experience may have enabled him to point out the most successful mode of treating it.

The second was written by John Stearns, M. D. and made its appearance under the sanction and at the re-

quest of the State Medical Society.

It may appear presumptuous in me to make any remarks on these productions, particularly on the first, as its author has, I am informed, obtained two Boylstonian prize medals in Massachusetts, for the best dissertation on medical subjects; but its singular and new doctrines induced the enquiry.

On the second I was induced to remark, on account of a difference of symptoms described from any I had met with, and some observations which I thought not altogether pertinent to this disease. Its sanction by the State Medical Society gave it an importance de-

manding, in my opinion, the observations I have taken the liberty to make on it.

The following letter from Dr. Mann was published in the Albany Register on the 29th of January, 1813.

To Dr. BENJAMIN WATERHOUSE, BOSTON. DEAR SIR,

At the time of making the statement which first appeared in the Vermont Centinel, respecting the sickness among the soldiers of the army at Burlington, and which was made public with the sole view of counteracting false and exaggerated reports, it was my intention, when more at leisure, to give in datail, a particular history of the disease, not only as it appeared at Burlington, but at other cantonments of the army.

The prevailing epidemic is denominated by nosologists, PNEUMONIA. (a) Its attacks are made under the various forms of sthenic and asthenic diathesis, while those varieties of the disease mostly depend upon the habits established prior to the attacks. In many of the first cases, among the soldiers at Burlington, the disease proved fatal in a few days, in some instances, within twenty-four hours. The following are the most prominent features of the disease, under its most deadly form: Heat of the body below the standard of health, extremities cold, pulse contracted and hard, not so hard as is usually found in pleurisies, which indicates the necessity of bleeding-respiration very laborious, not apparently from sharp pains through the sides and breast, as from a sense of suffocation. (b) When asked, the patient says that he does not feel much pain, but a weight upon the chest, an oppression arising from

inability to inhale the air; a sensation, one would imagine, similar to that which might be produced by breathing atmospheric air deprived of its oxygen. This suffocation, accompanied with small pulse and general coldness, may be the consequence of some condition of the lungs, which renders that organ incapable of absorbing through its membranes, in due quantity, the vital principle of the atmospheric air, or its oxygen. There is often a copious expectoration of glairy (c) viscid phlegm, sometimes uniformly coloured, or streaked with blood, while no relief is procured by its discharge from the bronchial tubes. The above form of disease is the Peripheumonia Notha of the ancients; and it is not unworthy of notice, that it generally falls upon those who are in habits of intemperate potations of spiritous liquors. Upon laying the chest open to view, after death, there is the appearance of inflammation upon the lungs, and congestions within the vessels of that organ, with adhesions to the circumadjacent parts, without suppuration, its surface covered with a yellowish, gelatinous, semi-putrid extravasation; its spongy texture is lost, and assumes, in some measure, the firm compact state of the liver. The physician, in the above described cases, hesitates, and cautiously employs his lancet.(e) These cases, however, are few, compared with the multitude seized, which generally proved fatal under every method of treatment; while a fortunate administration of stimulants, in a solitary case of the disease within my knowledge, induced by an indiscriminate use of them, a most deadly practice.(f) Such a practice was introduced for a short period, by a physician who was called to attend the

sick, at a time when the physicians of the army were overburthened with numbers. Could you have believed, that at this enlightened period, brandy (g) and wine in profusion, with soups, were the remedies principally depended upon by him, in every form of these pneumonic affections? However, prior to the employment of stimulants, an emetic and cathartic were administered-blisters were employed-the lancet forbid (h) by him under every form of this formidable epidemic. It has been already observed, that cases occurred where the physician hesitates and doubts the propriety of bleeding. The cases under this type are not one in twenty. It is worthy of notice, that in two, which came under my observation, where blood letting was cautiously employed, the accidental opening of the orifice during a restless night, procured so much relief, even a solution of the fever, as led to a persuasion that in some instances, where the disease had proved fatal, bleeding had been employed with too much timidity. In one case, the patient apparently sinking under the above form of the disease, seemed to be rescued from the grave by six grains of opium, administered in divided doses of one grain every two hours, and a tea-spoonfull of æther every half hour. The same treatment in other similar cases, was not attended with the like success.

In all cases of the above form of the disease, blisters are employed upon the sides, breast and back; in some these seemed to be of use. Where the body is torpid and cold, sinapisms, warm and heated applications to various parts of the body, especially to the lower extremities, are necessary. It is proper to observe, that

neither the stimulant, diaphoretic, nor depleting method of treatment is but seldom (i) accompanied with success, in the most violent forms of the disease. Its progress is rapid, and assumes in a few hours, the strongly marked symptoms of approaching dissolution; and it may be added, that even where suffocation with a rattling is commenced, and the heart ceases to perform its office, that the muscular strength of the patient is not remarkably impaired. (k) Several have been seen to walk the room a few hours before death.

Much the largest number seized with this extensive epidemic, are under a sthenic form, with strongly marked symptoms of inflammation, and require the depleting and antiphlogistic method of treatment to its full extent. (1) Stimulants here, evidently hasten the patient into the first described fatal state of the disease. At the first attack, with strong arterial action, pains through the sides and breast, much heat, difficult respiration, little or no expectoration, and this tinged frequently with blood, bleeding is employed, from one to two points. (m) It is often necessary to repeat the operation. In a few instances two quarts have been drawn from the arm of the patient in the course of the fever, with good effect. A cathartic of jalap and calomel, or calomel per se, is then administered. This, it is found necessary to repeat in some cases; but, as the disease is frequently accompanied with diarrhœa, drastic purges are employed with caution. The diarrhoea, at times, is so profuse, that cathartics are not indicated while it is necessary to check these alvine discharges by opiates. The diarrices which accompany this fever are not critical, they are not checked as the fever abates,

except by opium; remaining obstinate for a long time even after the return of the appetite. After bleeding and cathartics, under this form of pneumonia, calomel in small doses, combined with opium, is administered with benefit; and where a gentle spitting is produced by its employment, pain in the breast is mitigated, or abates, laborious respiration subsides, copious and laudable expectoration and moist skin supervene. To promote these last, Vin. Antimo. and Elix. Paragor. prove an excellent medicine. When the Antimony occasions too frequent evacuations by the bowels, small and repeated doses of Pulv. Doveri. are substituted. When after the inflammatory state of the disease is in a measure removed, more especially, where nausea and anorexia (n) exist, emetics of Ipecac. are advantageously administered. Blisters, in the course of the disease, are indispensable to remove stitches in the breast and sides, after blood-letting is carried to its proper extent; believing with others, that there is a blistering, as well as a bleeding, and emetic period in fevers, the bounds of which being ascertained, should never be intruded upon by each other. (o) As this disease has not been confined to the soldiers of the army, but has made its attacks and ravages in various places, about the same time, over a very extensive tract of country, it may be fairly inferred, that its spread far and wide is not the consequence of its contagious nature, any more than it is the effect of severe duty, negligence of officers, want of the necessaries of life, as it has appeared among the soldiers, as has been repeatedly represented in the public papers. It may be viewed as an epidemic produced by some latent cause—an

unknown state of atmosphere, and like all extensive epidemics, is more severe and fatal to such as are unavoidably, and in many instances, imprudently exposed to various additional exciting causes. (p) Those who have attended to the progress of epidemics, may have observed, that among thousands who have been subjected to their influence, that a few have been treated with severity by the disease, and some have fallen victims to its rage; while the deaths which have occurred, might be imputed much less to the nature of the epidemic, than to the various exciting causes which cooperated to produce its mortality. The first, perhaps, in all cases, cannot be avoided; while the exciting causes, giving to the disease a severe or fatal form, is within the ability of man to obviate. Among the various exciting causes productive of a severe disease, under the present epidemic, only one will be noticed, viz. an intemperate use of ardent spirits. It is a fact, well known among the physicians of the army, that the disease has been fatal mostly among the men who are in habits of great intemperance. It has been also ascertained from various sources, that this disease has been most severe and fatal among that class of citizens who indulge in spiritous potations. It is a vulgar and mistaken opinion, that the use of spirits secures the body from the attacks of disease, and fortifies it against cold, or its effects; so far from effecting either of these, ardent spirits aggravate the injurious consequences of cold, and frequently predispose the body for the reception of a disease, under its most severe and perhaps mortal form.

Is it not a singular fact, that no notice is taken of the prevailing epidemic, and its mortality, among the citizens, by the several printers, when with much avidity they swell their columns with exaggerated reports of the disease, and its disastrous effects, among the soldiers. Since it is well ascertained, that less in proportion to numbers who have been attacked with it, have become victims in the army, than among the citizens, (4) although the last are better accommodated in houses, less crowded than hospitals, and surrounded by friends for nurses, generally more assiduous and attentive to their wants when sick, than soldiers, who are bound to each other by ties less strong than those of consanguinity. It is a new and singular circumstance, that soldiers are more subjected to disease than citizens, independent of latent atmospheric agents, as causes! When it is known, that more than 4000 soldiers have been seized with this epidemic, will it appear strange and mysterious that many deaths have occurred, and the officers (r) not be implicated among the causes of the disease and its fatal event; when citizens are daily falling under its effects in towns and villages far and wide, in every district of the country. After being acquainted with the above facts, will it appear candid or ingenuous to state that the physicians of the army are ignorant, more ignorant than the physicians of the country. Are not the means of information open equally to all? Were not the physicians of the army educated at the same schools with the citizen practitioner? Did not government, out of a flood of applications, select and appoint those who had the fairest pretensions? (s)

The communication is concluded by observing, that there is no essential disagreement among the physicians of the army, respecting the nature of the prevailing epidemic and method of treatment. That it is not a new disease, as has been represented by some, the physicians of the army are all agreed. Perhaps it would be invidious to say, that the epidemic is represented a non-despecipt (t) by some physicians, as an apology for the want of success in the management of it. In consequence of the swelled accounts of the deaths in the cantonment at Green-Bush, where there were from 1500 to 3000 during the summer and autumnal months, and through which more than 7000 men have passed since the month of May, and at which place have been left all their sick, and many of their convalescents, while passing, it may be necessary to state, that the whole number of deaths at this post, from that period to the present, does not exceed eighty-five. (w)

With much respect, I am, &c.

JAMES MANN, Hospital Surgeon, U. S. Army.

Dr. Benjamin Water- }

(a) This is certainly inconsistent with the Doctor's subsequent theory, where he gives it as his opinion that the difficulty of breathing is owing to a want of oxygen. Nosologists consider Pneumonia an inflammatory disease—Now, as inflammation is necessarily attended with some heat, the existence of oxygen is as necessary to produce it. Which Nosologist has denominated the prevailing epidemic, Pneumonia?

(b) If the Doctor should take the trouble to compare the prominent symptoms of Peripheumonia Notha, (as he afterwards styles this form of the disease) as laid down in the best and most popular authorities on the subject, with the symptoms he has described, I fancy he will find an expential difference, or else I do not comprehend his meaning.

- (c) Has the Doctor ever seen a glairy substance that was not viscid?
- (e) According to the above appearances, discoverable on dissection, the disease must be of a highly inflammatory nature—if so, why hesitate to use the lancet? Stimulants will not answer in such a case; and if the patient is to be cured at all, it must be by either sthenic or asthenic remedies.
 - (f) This last sentence is totally incomprehensible by me.
- (g) Why not the use of these stimulants, when the Doctor has himself described the symptoms of the disease to be "heat of the body below the standard of health, extremities cold, pulse contracted and hard, not so hard as is usually found in pleurisies, which indicates the necessity of bleeding—respiration very laborious, not apparently so much from sharp pains through the side and breast," &c. Under such circumstances I think I should have preferred brandy to the lancet, particularly as the physician complained of by the Doctor had, "prior to the employment of stimulants, administered emetics and cathartics."
- (h) A proof that this physician had not yet been "enlightened," or he would have forbid the use of the lancet, in doing which he would have acted perfectly right; I only regret that he had not laid the same restrictions on stimulants.
 - (i) Of course they must very often be successful.
- (k) This is undoubtedly a singular fact, and could have been discovered only at this "enlightened period," that under a state of suffocation and rattling, and a cessation of the action of the heart, the muscular strength should not be remarkably impaired!
- (1) I am apprehensive the Doctor has been led into an error in considering this disease to be in most cases inflammatory or sthenic, but from what deceptive appearances I cannot conceive, unless he has mistaken the weak, small pulse for a suffocated, stifled, or tense pulse, and the oppression on the lungs as a primary affection, and highly inflammatory. That he has been deceived by some appearances I am induced to believe, from the circumstance that of about three hundred cases that have occurred in my practice and that of other physicians, of whom I have made enquiry, not a single case of sthenic diathesis has been met with, or where we could have justified the use of the lancet.
- (m) How can this practice be reconciled in a disease that has such strong tendency to "Peripneumonia Notha?" May it not, in many cases, have brought on that "deadly form" of the disease in which he advises the lancet to be employed with caution?
- (n) I cannot conceive how these two symptoms can exist at the same time; the one is a loathing of food, the other, a want of appetite without loathing of food.
- (o) That there are periods at which these prescriptions become necessary has not been doubted by physicians from the days of Hippocrates to the present time; but that it should be considered an intrusion, to bleed or vomit a

patient while under the action of a blister plaister, or to use all these remedies in the course of half an hour, in a case of pneumonia, "with strong arterial action, much heat, difficult respiration, pains through the sides and breast, nausea and anorexia;" if, I say, this should be considered an intrusion, the best physicians have been guilty of it, even "at this enlightened period."

(p) If I understand this sentence, I think it means that those who are most

exposed to the exciting causes of this disease, are most liable to it.

(9) I wonder from what data the Doctor has discovered this fact?

(r) The Doctor has here forgotten what he before stated, "that it spread far and wide is not the consequence of its contagious nature, any more than it is the effect of severe duty, negligence of officers," &c. Neither do I believe that the officers have been "implicated among the causes of the disease," which the Doctor states to be "latent atmospheric agents."

(a) The Doctor was appointed Surgeon-General to the Army, ergo, "he

had the fairest pretensions."

(t) Here the Doctor is certainly mistaken, for no one who reads his ac-

count of it, will hesitate to pronounce it a non-descript.

(u) This was an unfortunate calculation. Allowing that 7000 men had passed through Camp since May, and allowing that one sixteenth of that number had been sick of the prevailing fever at the Camp in Green-Bush, then he must have lost one out of every five. But I presume he will hardly claim half this number; and if so, it does not plead much in favor of his mode of treating this inflammatory complaint.

The following communication was published in the Albany Register, immediately after the adjournment of the State Medical Society.

The following Remarks, on the prevailing Epidemic, by John Steans, M. D. were read before the Medical Society of the State of New-York at their late meeting, and published at their request.

Although a few sporadic cases of the epidemic, which now prevails in this city, and the country adjacent, made their appearance in the fall, it was not till the middle of December last that it began to be much noticed. From this time, it gradually increased to the present period.

The symptoms which characterize this disease, are,

1st. Cold chills, which, in some instances, continue 24 hours, and are sometimes succeeded by a temperature, equally distributed over the surface; while the face and trunk of the body are of a heat higher than natural, and considerably flushed, the extremities are cold. In some instances the chills are but slight; the violence and danger of the disease are generally proportioned to the length of the chills. (1)

2d. Great and general prostration of strength, frequently ac-

companied with fainting.

3d. Extreme pain in the head, thorax, and sometimes in the extremities, (2) accompanied with dyspnœa and hurried respiration; when the pain assails the head with severity, it generally terminates (3) in delirium. The pain is sometimes severe in the back part of the head and neck, but generally affects the forehead, producing an extreme soreness in one, sometimes in both eyes. When the pains are not violent, the patients complain of a vertigo, and a dull, heavy sensation in the head, with an oppression at the stomach, nausea, and sometimes vomiting.

4th. The tongue is generally, at first, dry, and covered with a white furr, which, as the disease advances, is in some instances, (4) converted into a dark brown.

5th. In violent cases, the face appears tumid and livid; the eyes are remarkably protruded, (5) exhibiting a yellow aspect.

6th. The urine generally flows in unusually large quantities, and is sometimes very high coloured. (6)

7th. The pulse in the incipient stage is small, weak, tremulous, (7) and in some instances suspended, (8) as the cold stage subsides the pulse rises, but seldom to a degree of natural strength or fullness, it appears to labour under a violent oppression, is often irregular, and generally slower than natural. (9)

8th. The stomach is generally loaded with a vast quantity of gelatenous slime, which in tenacity resembles the white of an egg. (10)

9th. When a diarrhoea does not usher in the complaint, the bowels are torpid and extremely costive; ordinary cathartics seldom produce their customary effects. (11)

10th. A cough, with an expectoration of yellow mucus tinged with blood, in some instances commences with the disease; as it ad-

vances, clear blood is often discharged from the lungs and nose. (12)
11th. A viscid (13) sweat is generally thrown out upon the surface spontaneously, which is never critical, and if copious, is always injurious.

This vicious fluid is not confined to the surface. The saliva, gastric juice, and indeed every secreted fluid participates of the same disposition, and evinces a morbid affection of the whole secerning system. (14)

The preceding phenomena indicate the existence of a disease, entirely unknown in this section of the country. It appears to participate of two distinct and opposite natures-pneumonia and typhus. A peculiar constitution of the atmosphere appears to predispose the system to a typhus fever, under circumstances peculiarly favourable to the production of pneumonia; hence that state of disease induced, which may be denominated Typhoid Peripneumony, or Pneumonia Typhoides-a disease which, in some respects, strongly indicates the free use of the lancet, and in others the liberal administration of stimulants. (15) Hence originates a contrariety of treatment, which experience has proved to be very injurious to the patient-while some bleed copiously, others resort to the most powerful stimulants. (16) When the prominent and opposite symptoms of this disease are nearly balanced, prudence would dictate the use of neither of these classes of remedies; while depletion increases the symptoms of typhus, powerful stimulants produce delirium, and aggravate all the fatal symptoms of pneumonia. It is only when one of these classes of symptoms clearly and distinctly predominate, that either of these remedies are ever proper. Indiscriminately to condemn both in all stages of the disease, therefore, evinces an imperfect knowledge of the complaint, and is the height of absurdity and presumption. (17)

This is the same disease that prevailed in some parts of this and the eastern states during the last winter, and is exclusively confined to this season of the year. (18) It prevailed in England in the year 1685, and was faithfully described by Dr. Sydenham, under the name of the winter fever, (19) which in a subsequent treatise, he denominated the new fever. In attempting to account for the origin of the fever, he traces its causes to the plague, which had preceded it a few years, and of which he considers this as com-

pletely "deparatory." Since his time we do not find it described as prevailing in any country till the year 1811.

"Doctor Macbride considers it as a mixed fever, and terms it febris hyemolis. Sauvages, a species of Synochus, and names it synochus hyemolis, though he thinks it merits more the denomination of catarrhalis. Both these authors have taken their account from Sydenham. Dr. Cullen classes it as a variety of the Synocha or inflammatory Fever. Huxham, in his observations de are et morbis epidemicis, describes a fever, which he says nearly resembles this: and Dr. Swan thinks the mild catarrhal fever of Hoffman, which that author so accurately describes, and treats with so much judgment, bears to this a great similitude." Wallis.

After premising this brief sketch of the symptoms and history of this disease, I shall proceed to examine the remedies which have been prescribed.

1st. Bleeding. This, as I before observed, is extremely hazardous, unless symptoms of Pneumonia or Synocha decidedly predominate; and even in this case it should be used with extreme
caution and in small quantities, otherwise the Typhus tendency of
the disease prevails, and the patient sinks and dies. I have seen
but one (20) case in which it was indicated, and in which I took
but four ounces.

Letters from eminent practitioners in some of the counties where it prevailed the last year, inform me, it was occasionally practiced there with success. This was the practice of Sydenham, and is used by many the present season. (21)

2d. The warm Bath. In this disease the blood recedes from the surface and extremities, accumulates in the large vessels, and completely oppresses the action of the heart and arteries. A universal coldness and frequent chills consequently pervade the whole surface of the body till the torpor of the extreme vessels is overcome. (22)

The first indication of cure is therefore to restore action to the surface and extremities, and thence to preserve that equilibrium of the circulation which has been entirely destroyed.

This indication is successfully answered by the total immersion of the body in warm water, (23) in the incipient stage of the cold chill. If the warm bath is applied at this early period, the disorder is effectually subdued in 43 hours: but if delayed till the cold

stage is considerably advanced, its operations are less efficacious.

Immersing the extremities in warm water, and general foment tations to the surface, may be substituted when the warm bath cannot be procured. This should be continued till the chills have entirely subsided; it should then be discontinued, otherwise the copious sweats thereby induced, will debilitate and sink the patient, or accumulate the morbid heat (24) of the system, and thence induce delirium. Warm diophoretic teas should accompany the use of the warm bath.

3d. Emetics. When the head is affected with pain or a vertigo, or a dull heavy sensation, accompanied with an oppression at the stomach or a nausea and vomiting, an emetic is indispensably necessary. It invariably ejects a quantity of cold, viscous slime, (25) which resembles in tenacity and colour, the white of an egg. If this fluid is not evacuated, a torpor of the stomach and bowels ensues, which enhances the danger of the disease in its progress, and essentially impedes its cure.

When the emetic has been given early in the disease, and its operation proves effectual, the preceding symptoms readily yield; but if they continue obstinate, the emetic may be repeated and succeeded by

4th. Cathartics. Calomel or calomel and jalap, if given early in the disease, and repeated as the symptoms may require, soon obviates the obstinate costiveness of the bowels, and restores their natural tone, by evacuating their extremely offensive and debilitating contents.

5th. Diaphoretics. Although profuse and long continued sweats are evidently injurious, as they induce debility without in the leaspromoting a crisis, yet a naturally soft and moist state of the skin is always accompanied with a mitigation of the pain, and ought ever to be encouraged. To promote this object I make a liberal use of Snake Root, Sage, Boneset or Hemlock Tea, and every four hours, or oftener if necessary, give a powder very similar to Dover's—to this powder I sometimes add calomel, if the pneumonia symptoms do not readily yield.

6th. Epistastics. When the pains in the thorax are violent, and respiration difficult, and do not yield to spiritous fomentations, I generally apply a large Blister to the breast or side. In most cases

the formentations will succeed alone, and are more efficacious than blisters.

7th. Demulcents, (26) occasionally combined with opiates, are necessary to alleviate the cough and pains of the breast.

This course of treatment will generall promote a crisis in five days, and sometimes sooner; but should the disease be protracted to the typhus stage, the remedies usually prescribed in that type of fever then become necessary.

NOTES.

(1) I am surprized that the Doctor has confined himself in this article to such symptoms as appear only in some instances and sometimes; for instance, for the cold chills to last 24 hours is a very uncommon symptom. As also the cold extremities, while the face and trunk of the body are of a heat higher than natural. I have not seen this latter symptom in any case.

That the danger of the disease is proportioned to the length of the chills, is a fact that has escaped my observation.

- (2) The word sometimes might, I believe, with much propriety have been left out—for no symptom in this disease is more uniform than pain in the extremities.
- (3) I never discovered this fact in any of my patients. Whenever delirium did occur, which was in but few cases, it was slight, and of but short duration, but pain in the head did in no instance terminate in it.
- (4) And some of these instances are very uncommon. The public requires the prominent and strongly characterized symptoms of this disease, and if the physician chooses at the same time to add symptoms which sometimes occur, it is undoubtedly well and proper; but it is embarrassing to physicians to be informed of the rarest and least consequential symptoms of a disease, while the most marked and important ones are left only for the imagination to conceive.
 - (5) I have as yet met with no case of protrusion of the eyes.
- (6) This may, in some instances, be the case, but the first of these symptoms I have not discovered.
- (7) If this tremulous state of the pulse is meant as a general symptom, I disagree with the Doctor, or I do not understand the meaning of a tremulous pulse.
- (8) This may have happened in some instances, but belongs not to the usual symptoms of the complaint. I have in only one instance, met with a cessation of arterial action in the wrist, for sometime; I considered it however no symptom of this disease.
- (9) This is given as a general symptom; I must confess I have not observed it in a single instance.

- (10) As the substance of this paragraph is given as a general symptom, I shall take the liberty to differ with the Doctor. Out of 83 cases of (what I thought were marked cases) of this fever, at least 80 have taken emetics, and in every case bilious matter was thrown off the stomach. And in not one solitary instance have I observed gelatinous slime, or any thing that resembled it, more than the mucus commonly thrown up in vomiting. Other physicians of whom I enquired, say they have not met with it.
- (11) I have not met with this unfavorable state of the bowels, and never knew them more susceptible to the action of a cathartic at the commencement of any disease. I cannot recollect three instances where a repetition of the common dose became necessary to open them in the first instance.
- (12) The tinged expectoration I do not recollect to have seen at the commencement of this disease, but generally, when it did happen, appeared about the third day.

But that clear blood was often discharged from the lungs and nose I should have doubted had the assertion come from almost any other than this respectable source. I have indeed met with one or two instances where, from the violent exertion of coughing, one or more blood vessels of the throat or nose discharged pretty freely.

(13) I do not remember of having ever seen viscid sweat.

This viscous fluid (sweat) the Doctor informs us, is not confined to the surface! I wish he had pointed out where else it was to be found. This is a paradox.

- (14) By what process this discovery was made is beyond my comprehension. How the Doctor obtained the gastric juice to ascertain this fact I am equally at a loss to account for, unless he has taken greater trouble on himself than I think he has. The discovery also of the morbid affection of the whole secerning system must be pleasing, new, and unexpected to physiologists of the present day.
- (15) As the symptoms described by the Doctor, and the practice he pursues, contradict either "the free use of the lancet, or the liberal administration of stimulants," it cannot be the disease he alludes to, in which he says both these remedies are at times indicated: If the Typhoid Peripneumony requires such treatment, and Sauvages, who was the first who treated on this complaint under that name, says it does, then certainly this disease cannot be the same.
- (16) If so, it is perfectly consistent with the above opinion, that "the disease in some respects indicates the free use of the lancet, and in others, the liberal administration of stimulants."
- (17) As I have condemned both, I feel the full force and virtue of this denunciation. But what is to be done when the "prominent symptoms are so nearly balanced" that "prudence would dictate the use of neither of these classes of remedies:" The patient is here left suspended between a Pneumonia and Typhus, without any advice for his relief—his situation must be truly singular.

- (18) This disease is not confined exclusively to this season of the year. It would be absurd and presumptuous in me to think so, while it is universally known that several died of it at the Camp in Green-Bush the last summer and fall, as well as in the western counties of this state.
- (19) If that is a faithful description of this disease, then the Typhoid Peripneumonia vanishes. Let Sydenham speak for himself.
- 1. "Paroxisms of heat and cold succeeded alternately for a day or two after the beginning of the fever: 2. A pain in the head and limbs, and an universal restlessness accompany it: 3. The tongue is white: 4. The pulse much the same as in healthy persons: 5. The urine turbid and high coloured; and 6, the blood like that of pleuritic persons: 7. It is also generally attended with a cough, but not with such a difficult respiration, straitness of breast, and so violent a pain in the head in coughing as ordinarily happens in a bastard peripneumony. Hence this fever has none of the distinguishing and capital symptoms of a peripneumony, though it differs from this distemper only in degree: I call it the winter fever."

In the next paragraph Sydenham says, "for this fever being naturally highly inflammatory, cordials, &c. add to the inflammation of the blood," &c.

Dr. Rush, in a note on Sydenham's Winter Fever, says "that it accords with the catarrh, from the sensible qualities of the air, which is common in the winter and spring months in the United States."

This winter fever then answers equally well for Dr. Rush's "Catarrh" and Dr. Stearns's and Sauvages' "Peripneumonia Typhoides."

- "(20) This does not look much like a "Typhoid Periphenmony or disease, which in some respects, strongly indicate the free use of the lancet," &c. The Doctor seems to have found but one case in which it was indicated, and then cautiously drew only a precious four ounces of blood.
- (21) And yet the Doctor did not dare venture bleeding in more than one case, and then only four ounces. Can this be Sydenham's winter fever?
- (22) If, as is here stated, that "in this disease the blood recedes from the surface and extremities, accumulates in the large vessels, and completely sporesses the action of the heart and arteries," then in every such case there is not a question as to the propriety of bleeding. These are all indubitable symptoms of too great or inflammatory action; and there is among physicians but one opinion as to the remedy.

But how can the Doctor reconcile the above state of the system with the symptoms described at page 41, paragraph 7th, where he states the pulse to be small, weak, tremulous, and in some instances suspended? There is such an opposition in the two paragraphs that I am unable to reconcile them with each other.

- (23) I have not resorted to this remedy in a single case, therefore shall give no opinion on it.
- (24) From what symptoms has the Doctor deduced the existence of morbid hear? Heat may be of a greater or less degree, but that heat in itself is

morbid I am not disposed to assent to; but that it may be an agent in producing morbid effects I shall not dispute.

(25) This invariable ejection of viscous slime, resembling in tenacity and colour the white of an egg, has as invariably escaped my observation and that of other physicians in this city, as emetics had been administered. I do not presume to deny the fact as stated by the Doctor, but I only deny its occurrence in any of my patients.

(29) In this "enlightened period," there is little faith put in demulcents, those ancient obtunders of acrimony; I doubt their efficacy in this disease.



The following P. S. should have followed the communication of A. B. at page 16.

P. S. It may be thought singular, that I have given no name to this disease; I hardly feel prepared to name it. I can find no disease in any medical author, that I have examined, that will justly correspond with it.

