

AN  
INAUGURAL DISSERTATION  
ON

*Acute Dysentery*

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BY

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OF

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To

Prof. Bowling.

The learned and accomplished lecturer  
and teacher, the devoted disciple of  
science, and the student's friend this  
article, is Respectfully

Inscribed, by  
The Author.

## Acute Dysentery

The recent extensive prevalence of Dysentery in our country and the universal fatality with which it has been attended, has invested it with a new interest to the American practitioners of Medicine. Few diseases, if <sup>indeed</sup> any, have within the last two or three years committed more fearful and widespread havoc in our country than the one we are now considering.

The sturdy farmer of New England, the hardy and adventurous pioneer of the Far West, and the easy talking master with his looty slaves in the "Sunny South", have all alike fallen under its ban, have been struck by it and have died. Not that all die at it who are attacked by it; by any means; for this is far from being the case, yet great numbers of every age and sex have been destroyed by it.

The number of its slain has been but little if at all inferior to that of its illustrious predecessor Asiatic Cholera, the pestilence that literally "walketh in darkness, and that was with it at noonday". It well becomes us then as guardians of the public health to inquire, what is Dysentery? What its pathology? What its treatment?

Upon this inquiry we now propose to enter, not with the view however of promulgating any new or startling theory with regard to its pathology, or treatment, but simply to give a succinct history of its nature, symptoms, and the therapeutical means adapted to its cure.

We shall not enter into a disquisition of its various complications; but treat of it as a disease per se.

We will reverse the fashionable order of treating on diseases and speak of its pathology

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first, by which we may perhaps be the better able to comprehend and understand the symptoms.

We premise then that the essential character of the disease consists in inflammation of the mucous coat of the Colon, often involving that of the illium and rectum. Now we inclined to quarrel about names we would insist that the disease should be called Colanitis after Dr. Bellingall, or colite (colitis) after some of the French writers; although these terms do not convey an adequate idea of the disease. We all understand what is meant when authors speak of Dysentery, and there is now no danger of being misled by a misapprehension of the term; and for this reason we shall not hesitate to use it in this unpretending little treatise.

The anatomical lesions found post mortem in persons dying of uncomplicated acute

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Dysentery, are those of simple inflammation of the mucous membrane of the colon, sometimes extending down the rectum and along the ileum. The membrane will be found, when examined after death, to be red and congested and sometimes deep seated ulcerations, according to Dr. Brown of London, may be met with. The part inflamed will be found sensibly elevated above the healthy surface surrounding it, but not so much so as <sup>in</sup> those who have died of the chronic form of the disease. The inflamed points will also after be found coated with a puriform, sanguineous or san-  
guous secretion, which by a careless observer might very easily be <sup>mis</sup> taken for ulcerations, but if the parts be separated and washed, no solution of continuity will usually be found. According to Dr. O'Brien, a pseudo

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Membrane sometimes forms on the inflamed surface, more often, in the colon than in the ileum or rectum. He found it sometimes in distinct patches, then again the mucous membrane was found covered with a uniform layer of white lymph. If gangrene has preceded death, it will be denoted by lividity and unnatural softness, involving the muscular tunics of the bowels, and perhaps vesicles containing a fetid fluid will be found studding the membrane.

Symptoms. Dr. Elliotson has well remarked that the symptoms of Dysentery "are a mixture of those of Colic and enteritis;" and we will offer a superaddition of some others. Diarrhoea is often a precursor of the disease, but it may be preceded by

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Constipation accompanied with griping,  
flatulence and other symptoms of colic. The  
patient will often have a distinct rigor and  
afterwards a reactionary fever. Upon the  
intervention of a longer or shorter period after  
these symptoms, the patient will begin to  
discharge blood, or mucus, or both, per  
anum. These discharges occasionally come  
on in the very beginning of the disease as  
it were. They will be attended with te-  
nismus, and the patient will have tormina,  
a twisting sort of pain, in the region of the  
Colon, caused by spasm of that bowel from  
irritation of acrid matter passing along  
over its inflamed mucous surface. This  
symptom is often very severe, giving the  
patient great pain. Tenismus, as we have  
already remarked, will always be present

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in Dysentery. The patient will have frequent and irresistible desire to go to stool, and will usually discharge nothing but a little blood or mucous, or perhaps a mixture of both; and as sometimes happens a few hardened faeces along with it. Occasionally shreds of fibrin are passed, and at other times again lumps of matter resembling sweet are discharged. Sometimes there will be a copious discharge of blood, then again the mucous will only be streaked with it; or it may come away in clots. There is a sense of heat or burning felt about the anus and extending up the rectum, aggravated by the effort at defecation. If fever be not present from the beginning, it usually comes on as soon as the disease is fully established. The skin is hot and

dry; the pulse is hard, somewhat full, and increased in frequency. The tongue presents a white furred appearance; or else it is dark and dry and frequently presents a smooth and glazed appearance, and looks as if the raphe were contracted and the frena shortened. The patient is often greatly prostrated, and sometimes experiences difficulty of voiding his urine, which is usually scanty and highly coloured. There is usually more or less pain on pressure upon the abdomen, and if this be severe and accompanied with tympanitis, it may be safely inferred that the peritoneal tunic of the bowel is involved in the inflammation, and is therefore an unfavourable symptom. If the serous coat become involved, the patient will have dyspnoea and increased prostration. The patient

will also have anorexia, which will in some instances amount to absolute loathing of all solid food, while at the same time he will be troubled with urgent thirst, the gratification of which produces tormina and tenesmus. These symptoms if not arrested still go on increasing in intensity, whilst still others are superadded, such as great prostration, feebleness of pulse, coldness of the extremities, despondency of mind, dark and offensive discharges, the tongue becomes ap-  
 thous, hicough sets in and death supervenes within two or three weeks after the attack.

More frequently perhaps there is a mitigation of all the symptoms, and the disease passes into the chronic form, a condition but little preferable to death itself, a result which almost inevitably follows sooner or later,

A return of health may be anticipated from a general subsidence of the symptoms, particularly a return of consistent and healthy fecal discharges. An abatement of the febrile reaction, of the pain in the bowels, tormina, tenesmus, &c, a return of appetite, disappearance of thirst, and gradually returning strength, these all indicate, though not infallibly, the recovery of the patient. But instead of getting well, as this improvement in all the symptoms would lead us to expect, the patient will sometimes subside, as it were, into the chronic form of the disease, and then "give help him", for he is beyond the reach of physic.

Causes Dysentery is often epidemic, dependent on some peculiar condition of the atmosphere. No one who has watched the history of the disease for the past two or three

years in our own country can doubt this assertion for a moment, It has occurred nearly all seasons, though principally in the Summer, during dry and wet weather, and in every sort of situation. It is often caused by sudden alternations of heat and cold, particularly when accompanied by excessive moisture; and the predisposition to it is greatly enhanced by long and continued fatigue. It frequently happens that whole armies will be attacked by it after marching or otherwise labouring through a hot day and then being exposed to a cold damp chilly night.

Whatever is capable of producing portal congestion will produce Dysentery, and amongst this class of Causes, and perhaps the chief one, is malaria.

It is a well known fact that malaria produces Congestion of the Spleen, and this is often demonstrated by considerable enlargement of the organ. A slight acquaintance with the anatomy of the abdominal viscera will enable any one to understand how Congestion of the Spleen might dam up the blood in the inferior mesenteric, and through it the hemorrhoidal veins, and thus give rise to inflammation of the parts which it is their office to drain. I fully agree with our learned and polite Professor of Theory and Practice, that this is the only mode of action of malaria in producing the disease. General congestion of the portal system I believe to be a more potent if not a more frequent cause of the disease than mere splenic congestion, because the obstruction to the return

of the blood is then much more complete and direct; the spleen being situated outside the path, so to speak, of the blood, as it seeks the liver, being sent from the colon and rectum. But I cannot agree that such congestion is the sole proximate cause of the disease. We see how it might produce such a result, and I can as readily conceive how such an effect might be produced by other causes. Can it not begin in the mucous membrane itself just as bronchitis begins in the mucous lining of the bronchia? I confess I am unable to see why such should not often be the case.

Whatever is capable of giving a centripetal tendency to the fluids may produce Dysentery, not necessarily by first producing portal congestion, but the mucous coat of

the large intestines being a weak point may  
 yield more readily to the impression of the  
 morbid agent, whatever that may happen  
 to be. Or it may be produced by causes  
 acting within the bowels and directly upon  
 the membrane; such for instance as bad  
 food, bad wine, irritating juices &c. What  
 it is that gives this part so decided a per-  
chant to take on inflammation under  
 certain epidemic atmospherical conditions,  
 would be a fruitless enquiry. It has elu-  
 ded the search of men better able to in-  
 vestigate the matter than I could possibly  
 be. Dysentery was once almost universally  
 regarded by the Medical world as being con-  
 tagious, and Cullen so classed it in his No-  
 sology; but no intelligent physician so  
 regards it at present. These notions

perhaps arise from its occasional association with Typhus, a disease acknowledged to be contagious, a practical example of the ill effects of keeping bad company.

Treatment. As in all the acute phlegmasia, the first <sup>in this disease</sup> remedy, is bloodletting, both in point of time and importance.

In every case where there is abdominal tenderness, where the patient is discharging bloody and mucous stools, and particularly where there is high reactionary fever, we begin the treatment by a copious bleeding from the arm, and this may or may not be repeated according to the circumstances of the case. One decided bleeding however generally suffices, but we must not be satisfied with taking blood from the arm, but we must abstract blood locally with

leeches, or with cups, if the leeches are not to be had. And we are not to be parsimonious in the use of these means, but endeavour to make a decided impression on the disease in the beginning. As Prof. Bowling says, the leeches should be scattered by handfuls over the abdomen. Having leeches or Cupped the patient well we should apply warm fomentations to the abdomen, by means of flannels wrung out of warm water.

And this should be kept up as long as the soreness continues. If there be not a considerable subsidence of the symptoms, the leeching may be repeated the next day or the day after that. The next remedy mentioned in the books after blood-letting is mercury. "Mercury says Dr. Joseph Brown, "is so powerful a subsidiary of

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general and local bleeding in the cure of inflammation that we should expect benefit from it in this disease; and experience proves its prudent employment to be of great service. It might be objected to, says the same author, on the same ground as purgatives, the dread of an irritating effect from it on the inflamed intestine; but the result of its employment, our only safe guide, shows the apprehension to be erroneous, provided the medicine be properly administered." We do not quote these words from Dr. Brown in order to condemn them, for we believe every word of it to be true. But the question will arise what is the proper use of mercury in Dysentery? On this subject there is a discrepancy of opinion, and we may well call in question

the propriety of administering mercury in this disease in the manner directed in the various works on practice. Dr. Brown to whom we have already alluded, and who has contributed a very good article on this subject to the Cyclopedia of Practical Medicine, directs that "a grain, or a grain and a half of Calomel combined with from five to ten grains of Davis Powder; or <sup>half a grain of opium; or</sup> eight or ten grains of Hydragyrum cum creta, likewise combined with the opiate; may in this country (England) be administered at intervals of four hours, the period being lengthened when the symptoms begin to abate."

Now we assert, and feel confident that the experience of the Profession in this country for a few years past

will amply sustain us in the assertion, that if the symptoms ever did "begin to abate," it would not be in consequence of such a course of treatment, but in spite of it; or else the Dysentery of England is of a very different character from ours.

What is the ordinary effect of calomel, or of mercury in any form, on the liver? Every body knows that one of its most constant and prominent effects, is to arouse that organ to increased action, and cause it to pour out a copious secretion of bile, which I believe is always more acrid and irritating, than that which is secreted in a healthy and unexcited condition of the organ. And what is the effect of all this? Why, this acrid bile as a matter of course passes along down

the alimentary tract and over the inflamed mucous surface, and adds to the mischief already existing there. I have often seen the effect produced by the use of mercury, and in fact have never known it to fail of this effect when given as directed by most of the authors whom I have consulted.

The question will occur then, must mercury be entirely excluded from the Catalogue of remedies in the treatment of Dysentery? We answer that it may often be used with benefit, but that it had much better be withheld entirely, than given injudiciously; and such I am compelled to regard the usual mode of administering this drug. Dr. Brown's plan to which I have already alluded, I cannot regard in any light than, as highly pernicious.

How then is it to be given? This question may be more conveniently answered in connexion with another mooted point, (viz) should purgatives be administered at all in Dysentery?

It is a fact generally recognised I believe, that in this disease the cells of the Colon are always more or less filled with Scurbala, and it is proper that these should be removed; for it is impossible for them to remain there, without creating more or less irritation, or adding to that already existing. According to Prof. Bowling's authority, whenever these scurbala begin to come away from the patient, he invariably begins to get better. These hardened lumps of fecal matter must be got rid of then. How is this to be done?

It happens very fortunately that we have a medicine that has a peculiar tendency to act on the large intestines, and this medicine is aloes; an article therefore of all others, best suited to the treatment of this disease. Aloes, says Prof. Bowling, should enter into and form the base of every purgative employed in Acute Dysentery. Having, as already remarked, a peculiar tendency to the large bowels, it dislodges and carries off any scybala that may have accumulated in the cells of the Colon; and as these often become a secondary source of irritation, their dislodgement and removal becomes an important indication in the treatment of the disease.

The following is the recipe for Prof. Bowling's Dysentery pill, which in

our opinion is a peculiarly happy combination of medicines calculated to fulfil all the indications of a cathartic in this disease.

R Aloes pulv.  
Scammony pulv.  
Blue Mass aa  $\zeta\text{ss}$  M

Make into twenty pills.

Of these he administers from three to six, according to circumstances. They should, if the first dose does not produce the desired effect, be repeated on the next day or the day following that. This cathartic will sweep out the whole alimentary canal bile, scybala, and all. This in a large majority of instances will be purgation sufficient; and after thus cleaning <sup>out</sup> the bowels I should be inclined to let the

patient rest, and to promote this object I would administer opium in considerable doses. If on the decline of the disease it should be necessary to open the bowels again, it may be done with a dose of castor oil, and fifteen or twenty drops of the oil of turpentine.

Turpentine is used by some practitioners throughout the disease, and with asserted success. It may perhaps act very kindly and beneficially on the inflamed mucous membrane if judiciously employed, and in a few cases in which I have tried it, I was pleased with the effects of the medicine. Diaphoretics are prescribed in most of the books, and by promoting the action of the skin, and thereby giving a centrifugal tendency to the fluids they

may do good. The preparations of antimony, particularly the tartar, are usually employed for this purpose; but its tendency to purge I think is an objection to its use, and when used should be carefully watched, and withdrawn as soon as it begins to manifest such a tendency.

I think it would be better to combine opiates with it to control its action in this respect. To make a brief summary of the remedies in the treatment of this disease, we need only to mention general and local bloodletting, warm fomentations, an aloe purge and Opium. These if properly used will be sufficient for the management of most cases.

We have not deemed proper to

Speak of the Diagnosis of the disease,  
or any other modes of treatment, than  
the one so briefly sketched above. We  
omitted to speak of the first because  
we believed it to be unnecessary to an  
easy recognition of the disease; and the  
latter because we believe the plan of  
treatment we have indicated, to be the  
best, and therefore the only proper one to be  
employed.

We take leave of the subject with  
the single remark, that, although the sk-  
etch we have given of the disease is de-  
ficient in many respects, and possibly  
erroneous in some, yet sufficiently correct  
and full, both as regards the disease and  
its treatment, to enable the reader, should he  
be guided by it, to detect the disease and cure it.