

AN
INAUGURAL DISSERTATION

ON

Acute Peritonitis

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BY

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Acute Peritonitis

According to the custom of this Institution all candidates for graduation are required to write a thesis upon some medical subject. In compliance therewith I have selected Acute Peritonitis, and in so doing I do not expect to be able to present any new claim to originality of particular regard, but will endeavor to offer you a condensed compendium of the most approved opinions of the profession upon the subject under consideration. There are various forms and modifications of this disease, to enter into a detailed history of each would be not only tedious but unnecessary. I shall therefore confine myself to the ordinary form and shall not more than briefly notice the special and not infrequently accidental varieties of this affection. All the varieties of this

disease are not only painful but exceedingly dangerous, but more especially that form which is usually disseminated Periperal Peritonitis. The very name of which fills the mother with horror and dismay. This form as its name implies is confined to women in child-bed. But the ordinary forms of this disease may attack all classes of persons, male and female, old and young, the robust as well as the feeble. But as a general rule it selects its victims from those already of feeble health or becomes an complication of some other disease especially any chronic affection of the bowels. With the above brief history of this disease I shall now proceed to detail its symptoms &c.

Symptomatic Course. Peritonitis is sometimes ushered in by a chill or rigor, but

more frequently it begins with pain
and not infrequently both these phenomena
occur simultaneously. The pain commences
most commonly in the lower por-
tion of abdomen Hypogastric or one
or both of the Iliac regions and rapidly
extends itself over the whole abdomen.
The pain is sharp and lancinating,
sometimes the pain concentrates itself
as it were, in one spot and then in
various points of the abdomen and is
not infrequently attended by a sense
of heat or burning, which is often quite
distressing to the patient. The abdomen
is universally tender to the touch
when the slightest pressure is made
upon the bowels the patient complains
of exquisite suffering. Also whatever causes
any contraction of the muscles

of the abdomen produces the same effect
Vomiting, the act of defecation, a deep inspir-
ation or any motion of the body produces
pain. The patient lies with his legs draw-
n up to protect the abdomen from the
weight of the bedclothes which is intoler-
able to the patient. Also he lies on his
back with a view of relaxing the mus-
cles of the abdomen and in some degree
of obviating the pressure of the bowels
upon the peritoneum. Professor Woods
remarks that the supine posture is not
as unusual as might be supposed.
He mentions one case which was the
worst he ever saw in which the
favorite position of the patient was
upon his left side, with his legs drawn
up closely to his abdomen. In by far
the majority of cases the pain is general

yet sometimes we see cases in which it is confined to one or more spots showing conclusively that the inflammation is local and not general as when the patient complains of pain over the entire abdomen, on examination as soon as the disease has fairly commenced there is a feeling of hardness tension and general elasticity about the abdominal walls and soon the abdomen becomes tumefied and swollen which increases as the disease progresses and finally as it draws to a close becomes tympanitic. In some few cases however there is little or no swelling from the first to the last, but on the contrary the bowels are compressed by the constriction or drawing of the muscles. The stooling is sometimes irregular ful

ing like a tumor diffused over the whole abdomen, which sometimes becomes permanent. But generally the swelling is uniform and general. During the first stage of this disease resonance upon percussion greater than in health is discovered. But at a more advanced stage of this affection the sound becomes dull, especially in particular parts. After the disease has progressed for several days the abdomen upon auscultation presents to the ear a sound like something rubbing together called the friction sound, as is observed in cases of pleurisy, rendered rough by the effusion of lymph which has become coagulated.

The above symptoms are common to this disease, but there are many

which may be added which exist either from sympathy or which are dependent upon the rapidly contagious character of inflammation which characterizes this disease and which is propagated directly to contiguous parts, which may happen to be of the same character of tissue. Nausia, Vomiting, Thirst, Scarcity or entirely suppressed urine, constipation of the bowels are usual phenomena, Vomiting is frequently very distressing, Constipation is not as frequent as the former of the several symptoms above mentioned, But is generally confined to those cases in which the muscular coat of the bowels has become involved in inflammation or irritation, even under the latter circumstances diarrhoea

the opposite wrist, one symptom particularly characterizes this disease is the peculiar phenomena which the face presents being pale contracted and presenting the appearance of great anxiety and distress, being so peculiar characteristic that the Physician once having seen them will never forget them. The pulse is commonly frequent, beating from one hundred to one hundred and forty per minute, and is varied varying and twice, though according to one man then it is sometimes full and not much increased in frequency, yet this is certainly an exception to a general rule. The Tongue is generally slightly coated with a whitish or yellowish film frequently moist, though it is sometimes dry or nearly natural in

appearance. The patient is wakeful and complains alternately of heat and chills. But there is one thing worthy of remark that during the whole course of the disease the patient does not feel much warmer than in ordinary health.

Peritonitis is one of the most rapidly fatal diseases almost of which we have any knowledge. Death not infrequently takes place in twenty four hours and commonly terminates in about a week. The degree of tenderness of the abdomen the pain together with other symptoms indicate the progress of the disease. In fatal cases the pain ceases or nearly subsides, frequently altogether subsides which not infrequently leads the doctor to conclude that the patient is better. But it ought to be regarded as the

most uncomfortable symptom, unless
there is a corresponding amelioration of
the other symptoms. As the affection
advances (if fatal), the pulse becomes
extremely frequent and feeble, the face
ghastly and haggard. The patient appears
strikingly. The abdomen becomes tympani-
tic and often flaccid. Hiccough is
often exceedingly distressing, accompan-
ied by occasional regurgitation of black
greasy matter from the stomach
which seems to come from him
without any apparent effort. The bowels
sometimes commence discharging a
black matter similar to that thrown
up from the stomach. Convulsions
occur and not infrequently the harb-
ingers of the fatal result. But those
cases which do not terminate in death

but soon are recognised by the gradual subsidence of the pain and tenderness over the abdomen. cessation of vomiting the pulse becomes less frequent, more full and soft, the countenance less ghastly and anxious and not infrequently recovery is indicated by a free sweat ion from the skin. Kidneys & bowels In some cases the recovery is complete, all the above symptoms entirely subside. In others the recovery is very slow and often imperfect, sometimes owing to the formation of pus which eventually finds its way into some of the hollow viscera of the abdominal though which it is eliminated and makes its escape. Again the pain and tenderness may continue for an indefinite time, the frequency of the pulse may continue in some degree till after the

patient can walk about. Lastly the acute form may gradually fall into the chronic thus indefinitely postponing and rendering the result uncertain. Besides the varieties of Peritonitis as above described there are several other varieties which I shall only briefly allude to. There is a form of this disease which is sometimes entirely local and which seems confined to one or more portions of the peritoneum and may be produced by any violent blow upon the abdomen or may extend by contiguity from any contiguous organ, such as inflammation of the liver, the uterus, the ~~ovarium~~^{ovary} enlarged spleen or ovaries. Sometimes it is produced by obstruction or intussusception of the bowels or hernia or any other cause of a similar character. When produced by either of these causes it is attended ^{with} the most

alarming vomiting of serousinous matter
and of insuperable constipation which
follows as a necessary consequence.
In cases having for their origin
inflammation of the Pectorum which
covers the liver, it follows almost as a
consequence that the eyes skin and tongue
are somewhat yellow, which produc-
es some obstruction in the function
of that organ which throws a portion of
the bile out of its natural channel (the
bowels) into the circulation. Pectoritis
though a most painful disease as a gen-
eral thing, yet sometimes it comes
on very insidiously with little or no
tenderness, no pain and may produce
death without even being suspected.
But fortunately such cases are rare
and only occur as complications of other

sometimes by which it is disguised
sometimes this affection is attended by
a Typhoid condition of the system from
from the beginning such as dry tongue
sores about the teeth swollen gums and
delirium are con with all the sympto-
ms which ordinarily attend cases of
regular Typhoid fever. Another form
of Putridity is that produced by the
discharge any matter such as the contents
of the bowels or phlegm into the peritoneal
cavity. This form is of course necessarily
fatal. And lastly there is another form
which attacks women after confinement
within three or four days or a shorter time
which is called Purpural Putridity and
is by far the most fatal form of this dis-
ease, especially when it prevails in an
epidemic form which it sometimes does

Diagnosis When this disease is unco-
mlicated and attended by the ordinary
symptoms it is not difficult to dist-
inguish it from all other diseases
From all affections ~~affecting~~ the bowels
it can be easily recognised by the ten-
derness on pressure, the instant and
not paroxysmal character of the
pain, the supine posture with the legs
drawn upon the abdomen, by the pec-
uliar sinking and anxious countenance
and the small coated thin and frequent
pulse, and the frequent constipation
of the bowels. In conclusion of this par-
t of the subject I will mention one of
the many symptoms (all of which) I
deem unnecessary to mention and that
is that there are many affections of
the bowels attended by pain, But in

none is the pain so constant and
which is aggravated in proportion to
the amount of pressure,

Anatomical Lesions

The lesions which are discovered upon
post Mortem examination of course
depend upon the causes which may
have produced the disease and also the
duration. If the disease be of long dura-
tion and produced by the ordinary
causes of inflammation only the phle-
numa which ordinarily attends inflamma-
tion of serous surfaces will be found,
such as scurvy fibrous deposit
upon the membrane of the surface.
Sometimes the cavity contains a free
liquid. If the disease have continued
for some length of time a copious
secretion of a thick yellowish or garnish

exudation, which may cause the
bowels to adhere to one another or
to the sides of the abdomen. Some-
times there is an effusion of blood
which is sometimes taken for mort-
ification. Sometimes pus is found
in the peritoneal cavity. This disease
being dependent upon such a variety
of causes (of course) give rise to
a variety of phenomena dependent
upon the cause which produced it.
Causes

Cold intemperance in eating
or drinking or the suppression of any
habitual discharges, whether healthy or
otherwise, cutaneous eruptions &c. may
produce this disease and are the
ordinary causes. Sometimes it occurs
secondarily as a complication of other

diseases, especially of those organs which are covered by portions of the peritoneum such as the womb &c. Sometimes it is produced by propagation or particular epidemic influence and by a variety of other causes which it is unnecessary to mention. But suffice, that it is produced ordinarily by Vacancies of weather &c as any other inflammation

Prognosis.

Is generally unfavorable depending upon the violence of the attack and the exciting cause. But when it exists in a person of good constitution and is uninterrupted and is treated early and efficiently, it yields to treatment. But it is always a dangerous affection.

Treatment.

Copious and early depletion is shrewdly to be relied upon, the pulse being counted and time cannot be relied upon as a certain guide, from the fact that the heart is cramped by the violence of the local affection and also from the fact of the pulse being frequent and counted an inexperienced Physician might be misled. As a general rule the pulse becomes more dilated under the lancet. The quantity of blood must depend upon the arm's titration and its effect upon the pulse and also the time of the disease at which depletion is employed. In rations it is necessary to repeat the bleeding time and again. At the beginning a large dose of calomel to be followed by

castor oil to fully evacuate the bowels
should be given. Then it should be
kept up actively in small doses combin-
ed with some preparation of opium
to restrain the bowels as active purgation
has been found to be decidedly hurtful
by increasing the peristaltic action of
the bowels and also the friction of the
already inflamed surface of the intes-
tinal evacuations. After bleeding
and full evacuation of the bowels
repose should be had to the use of
opium to keep the bowels restrained
for twenty four hours or more, for
reasons above mentioned. Leeches shou-
ld be applied to the abdomen
followed by warm fomentations
Slight doses of Specacuanaha may
be given to act upon the spine

Blisters should be applied to the abdomen if the disease advances and mercury should be employed in small and repeated doses so as to produce slight mercurial impulsion which is frequently the harbinger of recovery. Having given the general outline of this disease in relation to its treatment without entering into a detailed history of all the remedies which have been suggested I will now draw to a close by asking your kind indulgence in the perusal of this imperfect treatise.

H. H. Trevorattan

January 12th 1867