

AN
INAUGURAL DISSERTATION

ON

Puerperal Fever.

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BY

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To

John M. Watson, M. D.

To whom I am indebted for whatever
I may know of Obstetrical Science,
These pages are respectfully inscribed

By

The Author.

Puerperal Fever

In tracing out its history we will find that this term was first employed by Strother in the year, 1716 to designate the most fatal inflammatory disease to which lying-in women are liable. The name is now generally employed by writers on medicine synonymous with the terms childbed fever, puerperal peritonitis, peritoneal fever, and epidemic fever of lying-in women. By examining the records of medicine we will find indubitable evidence that puerperous women

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have been liable to attacks of this destructive disease from the most remote periods of antiquity. In the works of the earlier authors we have but a short and imperfect history of this fever, and the particular attention of physicians was not attracted to it until about the middle of the seventeenth century, when it appeared as a malignant epidemic in the lying-in wards of the Hôpital Général in Paris. Indeed so great was its malignity that nearly all perished who were attacked by it. Since that time it has frequently made its appearance as an epidemic in nearly all the large cities and principal lying-in hospitals of Europe. It very rarely if ever manifests itself as an epidemic in

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this country. The only record of the kind is by Dr Jackson, who says it was prevalent both in Northumberland and Sunbury in Pennsylvania in the autumn of 1817 and again in the spring of 1818, and though treated evidently with both vigor and ability about one half died. When it prevails, either in the epidemic or sporadic form, it does not seem to attack the poor and destitute any more frequently those who are in affluent circumstances, for when it appears, says a distinguished author, one clasp is as liable to take it as another.

In our short and imperfect history of this disease we have said but little of the sporadic form, but we do say, and feel fully justified in

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the abortion, that this form of the disease is our Puerperal Fever, and the epidemic form is the European Puerperal Fever.

Symptoms. The first symptoms of this disease usually manifest themselves twenty four, forty eight or seventy two hours after the delivery of the woman, and sometimes, but very rarely, within the space of twelve hours. The symptoms manifest themselves in the following order, in the simple sporadic form. We have first a slight rigor or chill followed by a fever, slight pain in the lumber region, intestinal colic which in a few hours affects the hypogastrium, the pain increasing gradually becomes more acute, concentrated pulse, moderate fever, lochia not

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suspected, mammae flaccid, tongue dry in the center, edges covered with a yellow mucus, hiccough and vomiting of a green coloured matter. In addition to these constant and characteristic symptoms, there is sometimes a diarrhoea of a bilious glairy matter, a considerable swelling of the hypogastrium, thirst and remarkable retention of urine.

In the more complicated or epidemic form the disease is ushered in by a chill, the pyrexia is stronger than in the simple form with exacerbations rapid pulse, hot dry skin, severe pain in the abdomen which occasions great suffering when pressed upon.

These are the principal characteristic or pathognomonic symptoms of this disease, but unfortunately for the poor

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woman the chill which ushers in the disease is called a weed, and the pain in the abdomen is frequently looked upon by old women and grannies as after pains, and but little attention is paid them, and not unfrequently the disease is incurable before medical assistance is called in.

Dr. Gordon lays down these general principles by which it may always be distinguished from after pains. He says the pain of Puerperal Fever is constant, and after pains periodical; in Puerperal Fever the abdomen cannot be pressed upon without occasioning great pain; in after pains the abdomen is not painful to the touch; in Puerperal Fever the pulse is quick; in after

pains the pulse is not at all affected. The seat of the pain varies somewhat in different patients, some complaining of pain in the hypogastrium, others again of a sharp pain darting from the pit of the stomach downwards and backwards toward the spine, and others again complain of severe pain in the right iliac region, or in the region of the right ovary. It is in this region Dr Gordon says that more than three fourths of his patients complained of pain. Some complain of pain in the lumber region, or in popular phraseology the small of the back. others of severe pain in the lower extremities, which is often taken for rheumatism, which is another fatal cause of mistake.

The pain in whatever portion of the abdomen it may be situated, is so ex-
cruciating that patients describe their torture to be as great or greater, than
they suffered during labor. The pulse
is most frequently weak, though some-
times hard, and in the very beginning
of the disease beats with an uncommon
velocity, very seldom less than one
hundred and forty per minute;
and unless proper remedies have
been used to check the disease, it
increases in quickness till it exceeds
one hundred and sixty strokes per minute;
and often before death, becomes too quick
to be numbered. In most cases there is
more or less tumefaction of the abdo-
men, and more especially those that
have been neglected, acquiring the size

of the abdomen before delivery. The tongue is white and soft, but in protracted cases it becomes rough and dry, resembling its condition in typhus. The urine is turbid and high coloured, and voided with great pain and difficulty; and sometimes total retention occurs. Partial sweats are very common, and are a mortal symptom when confined to the face and breast. When there is costiveness in this disease, there is more or less vomiting of bile, and in the last stage of the fever if there be symptoms of mortification, the patient is very apt to vomit a black dirty matter, not unlike that ejected in the last stage of Yellow Fever. Diarrhoea is another frequent symptom; and Gordon tells us it is

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rather to be desired than dreaded; for without a spontaneous or artificial diarrhoea very few recover. He farther says the stools were frothy and of a yellow greenish, or dark brown colour, and every discharge by stool seemed to give temporary relief; but toward the end of the disease they were frequently involuntary, and sometimes become black and fetid resembling mop water. and constitute one of the symptoms internal mortification. The lochial discharge is sometimes diminished, but in very few is it entirely suppressed. There is never any secretion of milk in those cases that terminate fatally, and there is none in those that recover until after the crisis. Respiration is performed with great difficulty as the disease advances.

This does not seem to be attributable to any disease in the thorax, but is caused by the mechanical pressure of the diaphragm and abdominal muscles on the inflamed viscera of the abdomen producing pain.

The intellectual faculties are very seldom affected in those that have had proper treatment; for says Dr Gordon I seldom observed a delirium except in a few improperly treated cases.

A few hours before death there is sometimes an effusion of water in the cavity of the abdomen. With this there is always a total cessation of pain, and while the patient is transported with the sudden transition from extreme pain to perfect ease, and overjoyed with the thoughts of recovery, death comes by surprise and carries

her off amidst the congratulation
of her friends." Some however,^{have} a vio-
lent struggle and die in great agony.

Nature. That the disease consists essen-
tially in inflammation of one or more
of the structures concerned in the
processes of gestation and childbirth,
the researches of modern morbid anat-
omists leave no room to doubt. The
peritoneal covering of the womb is prob-
ably the most frequent starting point
of the inflammation, from which
it may spread until the whole peri-
toneum becomes involved. Or the body
of the womb itself may be the seat
of the inflammatory process, or the
veins and lymphatics may take on
suppurative inflammation, and form

the local disease upon which the constitutional symptoms depend. The inflammation is not necessarily confined, however, to any one of the various structures which enter into the composition of the organs of gestation. The morbid process may, in its progress, involve two or more of them, just as pulmonary inflammation may involve the pleura, parenchyma and air cells of the lungs. Postmortem inspections have invariably revealed the traces of inflammation in one or more of the tissues, and yet there are those who contend that the disease is an idiopathic fever, and that the lesions are simply concomitants or complications, just as the le-

sions of Sydenham's glands are concomitants of typhoid fever. We believe, however, this doctrine is at present advocated by but few. It is believed by many this inflammation is a specific disease resembling, or identical with erysipelas, and is contagious. The proof that it is contagious, when it occurs as an epidemic, is very strong and leaves no room to doubt that it is at least occasionally so.

Treatment. We will divide the treatment into two parts, viz. 1st The treatment of the Sporadic form. 2nd Treatment of the epidemic form. Costiveness is one of the first things to be overcome in our treatment of the simple form of the disease.

And that this may be overcome we always select those remedies which will act quickest, or produce an evacuation of the contents of the alimentary canal first. For this purpose clysters are generally used when we desire an immediate evacuation. A medicine of this kind will sometimes produce several free and active motions from the bowels. This is the great advantage the clyster has over almost all other remedies, in acting immediately.

We regard this as a very valuable remedy in the treatment of this form of this disease. If the injection fail we should have immediate recourse to some other cathartic, more certain in its action. The next best, quickest and most certain in its action, is the aloëum recini given in one ounce, or half ounce doses, every two or three hours until three or four free evacuations have been ob-

tained. There is generally a cessation of pain after the action of the medicine. Tartar emetic, or wine of antimony is sometimes used with great advantage given in small doses every two or three hours until they pass through the intestinal canal. We are to judge by the strength of the patient, by the abatement of the pain and by the quantity and quality of the discharge of the evacuation necessary to the cure of the disease. After the evacuation a gentle diaphoresis may be encouraged by such medicines as neither heat nor bind the body, both of which are very injurious. With this intention small doses of ipecac, tartar emetic, or wine of antimony, in combination with an opiate, may be given once or twice in twenty four hours. The patient should be at perfect rest, ~~tranquill~~ mind

and all news, whether bad or good, that would, either occasion uneasiness, or surprise should be concealed until the patient's strength and firmness is entirely restored. Dr Hulme says. "The patient must strictly abstain from all candle, spiced, wine, spirituous waters, heating medicines and cordials of every kind, whether under the denomination of comforters, strengtheners, revivers, expellents of wind, promoters of the lochia, relieves of after pains, or under any other specious title whatever, which the good women are too apt to bestow upon them, and thus ignorantly administer to the destruction of the unhappy patient." The clothes of the patient should be changed frequently, for warm dry and clean ones. All kinds of bandages to the chest or abdomen must be carefully avoided for fear that their

preparations upon the tender and inflamed viscera of the abdomen, may help to increase the disorder. As soon as the child is prepared and put in bed, it should be placed at its mother's breast, in order to determine as much as possible from the uterus.

We have no doubt that if this was more particularly attended to, we would have less of this disease than we do, for the blood which ^{has} been flowing to the uterus during gestation, and which now ought to be determined to the breasts, is permitted to flow on, and the womb being engorged and thus remains, until a state of suppurative inflammation is induced, which may proceed till the whole peritonium is involved in the destructive process. Particular attention should be paid to the state of the bowels.

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even after the disorder seems to be par-
tially, or wholly relieved. On this subject
Dr Hulme holds the following language.
After the disorder is abated, or even af-
ter it seems to be gone off, particular atten-
tion must continue to be paid to the
state of the bowels. But the more ef-
fectually to prevent a return, and to re-
store the weakened bowels to their due
tone smaller quantities of chamomile
tea, or a slight infusion of juniper
berries may be drunk three or four times
a day, either by themselves or with a few
drops of the elixir vitrioli acidum.

After this a cooling opening diet with
fresh air, bark of Peru and gentle ex-
ercise will confirm the cure. We have
taken the principal portion of this treatment
from Dr Hulme who does not recommend

bloodletting. We think, however, that recourse should be had to it in all cases that are known to be Spureral Fever; at least we should treat all in this way.

2nd Treatment of the epidemic or complicated form. Gordon tells us that, ^{what} Botelius says of the plague is strictly applicable to Spureral Fever. That author says, "Bleeding proves more beneficial than all other remedies, provided it be seasonably used in due quantity; but I am of opinion it sometimes does no service, either because practitioners are too late in having recourse to it, or use it too sparingly, or commit some error in both these particulars. For if a disease which requires four pounds of blood to be taken away in order to cure it, and only one is taken away destroys the patient, it does not prove destructive because bleeding was used, but because it was performed

in an improper, and perhaps in an unseasonable manner'. Dr Gordon,^{think} nothing more applicable than this is to Supurcal Fever; for he says when he had the courage to take away twenty or twenty four ounces of blood at the first bleeding, his patients always recovered but when less than that, his patients always died. And we presume there are but few who have moral courage enough to take away twenty, or twenty four, ounces of blood from a woman who has passed through the violent throes of labor, and knowing the prejudices that are prevalent among the common people, and a great many physicians in regard to bleeding of such women. But we should so train ourselves that we would ^{do} anything for the welfare of our patient. This may seem a great deal of blood to take from a patient to those who are in the habit of taking away eight or ten ounces, but Hippocrates and Sydenham was

in the habit of bleeding ad deliquium anami in fevers. After a bleeding of this kind we should administer a brisk cathartic if there is no diarrhoea. There is sometimes a diarrhoea which should be kept up, as this is the second great object in view in the treatment of this most formidable disease. After venesection and purging have been attended, an opiate may be given at night in order that the patient rest well. Again in the morning a gentle purgative should be given that would cause two or three operations, and the opiate at night should be continued until the patient is fully recovered. Gordon says "The purging, therefore, is to be early, excited, and to be continued without intermission, till there be a complete termination of the disease, which generally happens on the fifth day." The very best purgatives we have in the treatment of this disease are calomel and jalap, three grains of the former to two scruples of the latter. This is

Gordons prescription he says it should be made into a bolus which I always administered immediate ly after bleeding, without giving the least intimation of the intention of the medicine, either to the pa tient or her friends. In this manner says adis tinguished author "I treated my patients, and the same method, if followed by others, will, I am confident, be attended with equal success. It may, perhaps, be thought a severe method of cure, but I can affirm, from extensive experience, that no other method will cure Supurul Tum. The cure is se vere, but it is only short, for the patient is cured in a few days, or not at all."

"Cita mors init, aut rectoria leta"