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On Purpural Fever.

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Yes. JA

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One of the most fearful and most fatal
maladies to which the lying-in woman
is subject is the disease known as
Purpural Fever. In its most malignant
form medical skill is completely
baffled, and the practitioner who
is so unfortunate as to have this
disease occurring in his practice
finds one after another of his
midwifery cases ending fatally, and
all his skill unavailing to avert
the fearful mortality. It is only
by giving up practice for a term
of weeks that he can hope to cease
being the means of continuing to
spread the infection.

It is not at present known what
the special poison is which gives
rise to Purpural Fever. We find
it broken out in epidemics of
Scarlet fever when the symptoms
of Purpural Fever occur in connection
with the destructive rash and
sore throat of Scarlet fever.

The poisons of erysipelas and Puerperal fever have been said by some to be identical, while others affirm that it may arise from exposure to cold or from mental emotion disturbing the functions which ought to go on at that particular time.

The cases which have come under my own immediate observation could not be traced to the action of any epidemic, and could only be accounted for by imprudence on the part of the patient or her friends and in one instance to the use of the forceps in effecting the delivery of the child.

What do we include under the term Puerperal Fever?

It has been used by some as including all kinds of fever occurring during the period of Convalescence after Confinement, as peritonitis or metritis and even the fever caused by the lacted secretion has been

included under the term.
From the discussion on this Subject
last year (1876) in the obstetrical
Society, the general opinion seemed
to be to restrict the name to cases of
blood-poisoning. Cases beginning
as peritonitis or metritis leading to
blood poisoning would thus be
included.

In the present state of our know-
-ledge we know nothing for certain
of the cause of puerperal fever, or of
the special poison which gives rise
to it. There is however in our opinions
no room for doubt that it is due to a
poison of some kind. The phenom-
-ena of this fever are so associated
with inflammatory affections as
peritonitis or metritis that it seems
to me at present better to include
all under the same term.

Peritonitis is the most frequent
lesion found in connection with
puerperal fever, and we find that
in cases where there is an attack of

Simple peritonitis or Metritis the patient may generally recover. But sometimes these diseases assume a more malignant form and the symptoms then presented are identical with those of blood-poisoning. Under the term Puerperal Fever I therefore include not only the more malignant form, but also all cases of peritonitis or metritis.

What are the Causes of Puerperal Fever? It has been observed to break out during the prevalence of epidemics. Thus during an epidemic of Scarlet fever in the town of Alnby near Newcastle during 1871, a friend of mine lost several of his midwifery cases from puerperal fever. Before the outbreak of the Scarlet Fever he had had no cases of puerperal fever for some years and it was only after the appearance of the Scarlet Fever that he had any case of puerperal fever in his practice. He was under the necessity of giving up midwifery

practice for some time.

Typhus Fever and erysipelas are also Causes of Purpural Fever.

Dr. Litchman mentions in his "System of Midwifery" that from some oversight a patient suffering from Typhus Fever was admitted into the wards of the lying in Hospital of Dublin. The mor-
having been discovered she was removed in a few hours. In the beds on the right hand and the left of this woman were two lying-in women, both of whom were seized with purpural Fever and both died.

Erysipelas and purpural fever have been repeatedly observed to prevail at the same time in the same town, in the same hospital, or even in the same wards." (See J. Simpson).

The late Mr. Syleby mentions an instance of a practitioner making incisions into structures affected by erysipelas and joining direct for this to a patient in labour.

This patient took puerperal fever and died. And within the course of the next ten days seven cases occurred in the ~~practice~~ practice of the same practitioner almost all of them proving fatal."

Dr. Simpson's belief was that the two diseases were not in all respects pathologically identical, though the morbid secretions in the one were capable of producing in those predisposed to it the other disease, - erysipelatous effusions producing puerperal fever, and puerperal fever secretions producing erysipelas."

Defective ventilation, overcrowding, bad drainage, or anything which interferes with good hygienic conditions seems to cause and encourage the advance of this disease.

That puerperal fever is highly contagious is now generally believed, and that it is propagated by the accoucheur, seems to be well established.

In the epidemic which occurred in

Sunderland some years ago (1813)
of the 4, 3 deaths from Puerperal
Fever so happened in the practice
of one medical man.

Dr. Robertson of Manchester relates
that in the space of one Calendar
month a certain midwife attended
twenty Cases belonging to a lying-in-
chamber, of these sixteen had
puerperal Fever and all died. The
other midwives in the same ^{chamber} district
working in the same time 300 Cases
none of whom were affected with
puerperal Fever.

Still we find Dr. Matthews Duncan
characterising as ridiculous the idea
of medical men giving up practice
after having had a case of puerperal
Fever. He considers there is no danger
so long as the medical attendant
takes proper precautions, as in the
washing of his hands, and in the
use of disinfectants after visiting
a patient suffering from Puerperal Fever.

Certainly the weight of evidence is against him, and consider it the safest plan for the accoucheur to relinquish his midwifery engagements for a certain time. In some circumstances this can not be done and it is then the duty of the practitioner to use all possible precautions against the spread of the disease by using disinfectants and by strict attention to cleanliness. Much will depend upon the hygienic surroundings, and on the state of the patient's health before and after delivery.

Symptoms. Like all other febrile diseases, purpura febris is generally ushered in by a rigor more or less severe, followed by great heat of the skin, and increased speed of the pulse, which may rise as high as 140 beats in the minute. There is generally great pain felt about lower part of abdomen, this pain being increased on pressure, and

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being generally referred to one particular spot. The locheal discharge is generally diminished, or it may cease entirely. During the progress of the disease, the discharge if present becomes very fetid in its character. The secretion of the milk is arrested and the breasts become very soft and flabby. Diarrhoea may be present from the first especially in severe cases, but as the case approaches a fatal issue it is invariably present. Tongue is generally covered with a thick brown fur and patient complains greatly of thirst. As the case approaches a fatal termination, the countenance assumes a ghastly anxious look the skin becomes cold and clammy and a low muttering delirium is generally added to the other symptoms. The following cases illustrate these symptoms.

Case I. M^{rs} Holmes 25 years of age a stout healthy woman was delivered

of her third child on June 26 1875
 The labour was concluded safely and
 speedily in the natural way and
 there was every prospect of a good
 recovery. All went well till the
 morning of the 28 when patient
 was seized with a severe rigor
 accompanied by diarrhoea, and
 great pain over abdomen.

When I saw her she was very febrile
 pulse 120 full and strong, tongue
 furred and the slightest pressure
 over abdomen caused severe pain
 The lochial discharge was scanty
 and the breasts soft and flabby.
 Ordered flannel cloths wrung out of
 hot water and sprinkled over with
 turpentine to be applied regularly
 over abdomen, and for medicine
 I gave two grains of calomel and
 half a grain of powdered opium every
 4 hours. She was to have milk diet.
 Saw her again in the evening of the
 same day. The lochial discharge
 had ceased, the diarrhoea still

Continued, but the abdominal pain was much relieved. I did not however like the anxious look of the face and the pulse was much quicker 130 to 140 per minute and was much softer and weaker. There was also a cold clammy sweat over her body. The former treatment was continued and in addition I ordered a teaspoonful of brandy every hour. On the following morning the 29th my principal visited the patient with me. She had passed a restless night and seemed much worse. There were evident signs of blood poisoning in the anxious appearance of the face, the sunken eyes and the low muttering delirium. Patient spoke with difficulty and when spoken to did not answer readily and sometimes did not seem even to hear what was said. The diarrhoea being very urgent my principal ordered two grains of acetate of lead with

half a grain of opium every 4 hours.
 Patient died on the morning of the
 30th four days after delivery!
 The symptoms in this case were
 bad from the first and arose from
 patients own imprudence. She
 had left her bed the day after her
 confinement and had partaken
 of a hearty meal with the other
 members of the family. She had
 evidently caught cold and the
 diarrhoea which set in so soon
 was perhaps due to the food she
 had taken. There were no epidemics
 in the district at the time, I had
 no cases of peculiar interest on my
 list, and the other midwifery
 cases I had about the same
 time ended with no unfavorable
 symptoms.

Case II. M^{rs} Philips aged 22 years
 a thin spare woman was safely
 delivered of a healthy child on
 May 10th 1874. My principal attended
 this woman at her confinement

but I had the management of the case afterwards.

Patient did well till the 14th when she was very much excited from having had a quarrel with her husband. On the evening of that day she complained very much of pain over abdomen which was increased on pressure. Her tongue was furred, pulse 120 to 130 in the minute while her face showed great anxiety. The vaginal discharge was scanty and of a fetid odour. I ordered two grains of calomel and half a grain of powdered opium every 4 hours with turpentine cloths over abdomen, and a liberal supply of beef tea and steady soups. I also washed out the vagina with tepid water and carbolic acid in the proportion of one part of the acid to forty of water.

15th Patient has passed a very restless night. The abdominal pain is ~~much~~ still very severe. The

pulse is much weaker, the Countenance
 is very anxious looking and patient
 is startled by the slightest noise.
 Lochial discharge has stopped, the
 lacteal secretion is arrested the
 breasts are soft and flabby and
 there is slight diarrhoea. She has
 also been delirious during the night.
 Former treatment to be continued,
 vaginal injections ^{being} ~~used~~ twice during
 the day. I saw her again in the
 evening. There has been low muttering
 delirium during the day at intervals
 and there is no abatement of the
 other symptoms. Patient died on
 the 17th. I have no doubt that
 the cause of the fever in this case
 was the excitement consequent on
 the domestic disturbance I have
 mentioned. Before attending
 Mr Phillips my principal had con-
 fined another woman on the same
 day in another part of the
 district. This last became so
 alarmed and excited from hearing

certain reports of deaths amongst
lying-in women, that she also
took puerperal fever and died the
day before Mr Philips. My principal
gave up midwifery practice for some
weeks, as he considered he had been
the means of carrying some morbid
poison to these two women. It was
impossible that the one case could
arise from the other, as there was
a distance of two miles between
them and though the principal attended
both patients during confinement
the subsequent management of the
cases was entrusted to myself and
another Assistant, he attending the
one woman, and I attending Mr Philips.
I considered that both cases were
due to mental anxiety, as at the
time there was no known source
from which the poison could
have been propagated. No other
cases occurred in the district at
the same time. I was always very
careful in the use of disinfectants while

attending such cases.

Morbid Anatomy. When we come to consider the Morbid Anatomy of this disease it is evident from the symptoms that the lesions will present signs of an inflammatory character. Peritonitis is one of the most frequent lesions met with.

The peritoneum is seen to be of increased vascularity, and there is an effusion of lymph between the opposing Surfaces. This lymph which in ordinary peritonitis forms adhesions as if trying to prevent the spread of the disease, in the more fatal and malignant form as it is seen in purpural fever is nonadhesive and the inflammation spreads quickly and the peritoneum in these fatal cases becomes softened so as actually to appear jauginous." (Hobbs and Leake)

According to Dr. Murphy (who separates absolutely peritonitis from purpural fever) it is the arterial Capillaries which are injected in peritonitis, while

in puerperal fever the venous capillaries predominate which accounts for the livid hue of the intestines. He also says that the lymph in peritonitis is adhesive, while in puerperal fever that which we call lymph is not adhesive and is much more abundant than adhesive lymph. He says that in puerperal fever, the greater the intensity of the seizure the less chance of meeting anything like lymph, and that in protracted cases of either peritonitis or puerperal fever the morbid appearances more closely resemble each other, but that in cases which are more quickly fatal, the distinction between them is quite sufficient to separate the one from the other.

Admitting the accuracy of Dr. Murphy's opinion there seems to be no reason for modifying the opinion, that the fever may either, as is usual when it is propagated by epidemic influences, be primary, or it may appear subsequent to the peritoneal inflammation when it may

be termed secondary" (Dr. Leishman).
 In puerperal metritis the womb is found
 on examination to be soft and flabby and
 of increased vascularity. The muscular
 tissue has been observed in a number
 of fatal Cases to be softened entirely
 or partially, and the most frequent
 seat of this and other uterine lesions
 is the site beneath which the placenta
 was attached, and next to that the
 cervix and flabby cervix".

In the more malignant and fatal
 Cases the tissues of the womb have
 been observed after death to be gangrenous.
 When the veins of the uterus, or those
 more immediately connected with it,
 become the seat of inflammation
 the result of this is the formation
 of a blood clot, which becoming decom-
 posed gives rise to pus. This being
 carried by the blood to distant
 parts of the body gives rise to the
 formation of abscesses in these
 parts, as in the joints and muscles
 of the limbs. The lungs, heart, liver,

Spleen and Kidneys have been also found extensively disorganised as the result of this blood poisoning. The morbid appearances disclose to us nothing by which we are able to distinguish the various types of puerperal fever. "Generally speaking the extent of the local lesion corresponds to the severity of the attack, but in the most rapidly fatal cases nothing may be revealed beyond a peculiar condition of the blood (want of coagulability) and a little turbid serum in the peritoneum and other serous cavities.

Treatment. As regards the treatment of this disease we must remember there are two classes of cases we have to deal with the sthenic and the asthenic. We must therefore adopt our treatment to the different types of the disease remembering that the sthenic may, and in fatal cases, does run into the asthenic.

In the history of some epidemics we find the plan of treatment adopted was

the free and early use of the lancet, along with free purgation. This was the treatment adopted by Dr. Gordon in Aberdeen and his plan was followed by Mr. Hey of Leeds. Dr. Gordon took twenty to twenty-four ounces of blood at once, and if necessary ten more soon afterwards. After the bleeding he brought on diarrhoea, which he continued through the whole course of the disease till it was entirely conquered. For many years after the treatment of epidemic and contagious purpural diseases was, simply, heroic blood-letting. Such a plan of treatment would no doubt be very successful in the inflammatory form of the disease, and when the patient was seen early, but to follow such a plan of treatment when the disease assumes the asthenic type would be decidedly injurious. A different plan of treatment was adopted by Dr. Copeland while physician to Queen Charlotte's Hospital. His method was boldly stimulant and consisted in the

administration of a bolus containing
 eight to sixteen grains of Camphor,
 ten to twenty grains of Calomel and
 from one to three grains of opium every
 4 or 5 hours. Soon after the second
 bolus was given, half an ounce of
 Spirits of turpentine with Castor oil
 was given on the surface of some aro-
 matic water, and if this did not
 operate freely on the bowels the
 same medicines in double quantity
 were given as an emetic. He also
 applied fannels wrung out of hot
 water and sprinkled with turpentine
 to the abdomen. These were applied
 till the surface of the abdomen was
 freely reddened. The type of fever thus
 treated must have been widely
 different from that treated by Dr.
 Gordon and W^h Hey by free bloodletting
 and the practical conclusion to
 which we come is that, as we have
 said before, the plan of treatment
 adopted depends on the type of the
 disease. When the patient is of a robust

constituted, and inflammatory symptoms are urgent, much good will be derived from local or general bloodletting. If there is constipation with scanty lochial discharge free purgation at the outset will I consider act ~~to~~ beneficially. Generally give ten grains of Calomel with a small quantity of jalap. The following case in which the above treatment was adopted ended favorably.

M^{rs} Long age 20 years a strong healthy woman was delivered of her second child on the 1st of February 1875. Labour was tedious, but was completed in the natural way. Placenta was slightly adherent but was removed without much difficulty.

February 2nd. Patient has passed a quiet night, after pains not troublesome, and the lochial discharge is plentiful. Baby has been put to the breast, and unless a little pain when she nurses water everything is favorable. I was called to see her on the evening of

the same day. She had had a rigor in the early part of the afternoon, the discharge had since become very scanty, she had been unable to make water, and she was very feverish.

Catheter was used and I gave her a powder containing ten grains of Calomel with ten of jalap.

3rd February. Bowels have been freely moved discharge is much more plentiful but she is still unable to make water, and complains of pain over abdomen. Patient is very anxious. Her pulse is very quiet 110 in the minute. Ordered her a powder containing two grains of Calomel and half a grain of powdered opium every 6 hours. Hot fomentations to be applied over abdomen, and her diet is to consist of milk and strong soups.

On the evening of the same day I again saw her. She had been able to make water but the pain over abdomen was much worse, and she was lying on her back with her legs drawn up. Ordered turpentine to be used with the fomentations.

and the Calomel and opium powders to be taken every 4 hours.

4th February. Patient has passed a restless night. Pulse is 120 to 130 per minute. Pain over abdomen is worse, and she has been unable to make water during the night. I used the Catheter, and ordered twelve leeches to be applied over abdomen, and the bleeding to be encouraged by means of hot fomentations. I saw her again in the afternoon, pulse is much lower about 112 in the minute. Pain is much relieved, and the lochial discharge continues though scanty. Previous treatment continued.

5th February. Patient has passed a better night. There is evident improvement of the symptoms, pulse 100, and abdominal pain is much relieved. She expresses herself as much better. From this time she continued to improve and in about a fortnight was able to leave her room. This was evidently a case of puerperal peritonitis and according to some authorities

Should not be classed with puerperal
 fever Cases, but I have classed all as
 Cases of puerperal fever whether they
 end in blood poisoning or not. I am
 -sided that the leeches in this ^{case} were
 most efficacious, and to that
 treatment and the careful nursing
 I consider the woman owes her life.
 I can assign no cause for the superven-
 tion of the peritonitis as the woman
 was carefully attended to from the
 first. I considered that the difficulty
 of micturition was most likely due
 to the tedious labour.

The drug which I consider most beneficial
 in the treatment of this disease is
 opium, and I generally combine it
 with Calomel. Vaginal injections of
 tepid water ^{+ with Carbolic acid, or other disinfectant} should be largely used
 especially when the discharge is
 fetid. For external applications
 I consider the best are hot turpentine
 cloths. One great advantage they
 possess is their lightness. And this
 is a great benefit when we consider the

extreme pain and tenderness which is so frequently present over abdomen in this disease. There is no remedy which so far as ~~is~~ known acts as a specific in this disease.

The diet should consist of milk, starchy soups and beef tea and if a stimulant is needed I place more dependence on brandy than on any other.

Whatever treatment is adopted the physician must always bear in mind the risk of contagion and should be pointed in the use of some disinfectant, and attention to cleanliness.

William Core-

26 Scotia Street,
19th June 1876-