

July 1884.

On

Septicæmia

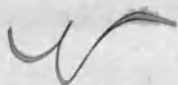
during

The Puerperal Period

by

James Wills M.B. & Co.

204 Caledonian Road
London



ProQuest Number:27552937

All rights reserved

INFORMATION TO ALL USERS

The quality of this reproduction is dependent upon the quality of the copy submitted.

In the unlikely event that the author did not send a complete manuscript and there are missing pages, these will be noted. Also, if material had to be removed, a note will indicate the deletion.



ProQuest 27552937

Published by ProQuest LLC (2019). Copyright of the Dissertation is held by the Author.

All rights reserved.

This work is protected against unauthorized copying under Title 17, United States Code
Microform Edition © ProQuest LLC.

ProQuest LLC.
789 East Eisenhower Parkway
P.O. Box 1346
Ann Arbor, MI 48106 – 1346

1
On the following pages I have not given a full account, of the different forms of Septicaemia which may follow Child-birth.

I have recorded, as briefly as possible, a number of cases attended by me. Some in the epidemic, others in the sporadic form. Some undoubtedly contagious, others very little so, or absolutely non contagious.

After pointing out, what I consider, the interesting features of these cases, I will then give the opinions and conclusions I have arrived at; and finally, state what I consider to be the best plan of treatment of that epidemic form of Septicaemia, commonly called Puerperal Fever, where such a large percentage of cases end in death.

Soon after commencing practice, I had to attend several cases of Puerperal Fever, in its most malignant form. The severity of the symptoms, the failure of the treatment adopted and the fearful mortality, all convinced me that I was dealing with one of the most formidable, fatal maladies, we are called upon to attend, and treat.

The anxiety that these cases gave rise to was great, not only on account of the severity of the symptoms.

followed by fatal results. but, also because I had been the carrier of some peculiar poison which had produced a disease in several patients I had attended during their labours

The mischief was done, before I was aware that I was spreading a fatal contagious disease. As soon as I knew that this was the case, I ceased attending midwifery patients. Still the idea that I had carried a poison which had produced fatal results was not pleasant: and made a deep, lasting impression on my mind.

From that time on to the present I have attended several other cases of Septicæmia following child. birth.

Aftn I describe these cases it will be seen that several differ very much from each other both in symptoms. Contagious properties, and results.

I will describe in the first place the cases I have attended, which occurred in the epidemic form and in the second place will describe several interesting sporadic cases.

In the summer of 1844. I attended a primipara

under the following circumstances.

She had engaged a medical man to attend her, and not long after her labour commenced, she called him in.

He made a vaginal examination, & concluded that her labour would be very tedious.

He had a full list of patients at the time, and had quite enough to do, to attend properly to them.

Such being the case, he advised the patient, and her friends to call in another medical man.

Within two hours after he left, I was called in, and as he had predicted, the patient had a tedious, & difficult labour. I went back & forwards to the care for twenty four hours, and at last delivered her with the forceps, on account of rigid perineum, narrow outlet.

It took some considerable time to deliver her, as the outlet was very narrow. The soft parts very unclilatable.

As far as I could judge the perineum was very little injured.

The placenta & its membranes were expelled by natural efforts, & appeared to be entire, the

uterus contracted firmly, and there was no post partum haemorrhage -

The patient was very exhausted, but not more than might have expected after such a long and difficult labour. So that taking everything into consideration I was well satisfied as to her condition when I left her, an hour after the termination of labour -

I drove at once from this case, and attended a multipara, who had a quick, natural labour. From this second case I went off to a third.

This patient, who was a primipara, was delivered shortly after my arrival.

I waited a considerable time for the placenta, but as it remained high up in the uterus, I carefully introduced my hand, found it adhering, and had to remove it.

The time consumed in the attendance of those three cases, and by this I mean, from the birth in the first to that of the third - was not more than three hours.

On the third day after this I attended a multipara who had a quick natural labour.

On the fourth day, early in the morning I attended a multiparous who had a quiet, or it might even be called a precipitate labour. and during the afternoon of the same day, I attended a primiparous, who had a fairly quiet, natural labour.

On the fifth day I attended a primiparous who had a very tedious, but otherwise natural labour. It will be observed that altogether I attended seven cases at this time. viz. three on the first, one on the third, two on the fourth, & one on the fifth days. After this I attended no more cases for a considerable period.

In order to get at the source of the contagion I must state what occurred in the practice of the medical gentlemen, who had been engaged to attend, & actually did make a vaginal examination in the first case of the series I have mentioned.

At the time he made this vaginal examination several of his confinements must have been ill with Puerperal Fever, because, within two days from this, two or more of his patients.

did. how many patients he lost during the week that followed I cannot now say but I know that the mortality was dreadful - all my previous confinements were doing well, and I was not aware of having been exposed to any possible contagion prior to this.

My first patient did well till the morning of the third day after delivery, when I visited her, then, I found that she had been seized with severe rigors during the night, followed by acute abdominal pain. She was extremely ill, the pulse was very rapid - & it is in puerperal cases that the pulse seems to beat its fastest. The temperature was high. There was constant vomiting, and the bowels were constipated.

She could hardly see the slightest touch on the abdominal walls, especially in the pelvic region over the uterus - the lochial discharge had ceased. The patient was greatly prostrated, and had an anxious, careworn looking countenance, which is very often present in acute febrile attacks occurring during the puerperal period. The lochial discharge returned in a few days.

it was scanty, purulent, and offensive, otherwise the symptoms continued very much as they had appeared on the first day of the illness.

The patient never rallied. putridity was becoming greater every succeeding day, and finally she died in a state of collapse, on the eight day after delivery. Having presented the symptoms of that form of malignant puerperal fever, where peritonitis is a prominent feature.

This short account is I think sufficient to show the nature of the case, and the history of the other six cases is briefly as follows: -

The second, third cases attended on the same day as the first both made good & perfect recoveries. The first of these two was a multipara, the second a primipara, this last had an adherent placenta.

Neither one nor the other presented a single bad symptom from the first to the last of my attendance, this goes to prove that, at that time I was quite free from contagious germs.

If there had been any poison on my clothes, or fingers, I would most likely have communicated it.

The patient from whose uterus I had to remove an adherent placenta was very favorably situated for receiving a poison. As my hand had come freely into contact with the raw placental surface of her uterus.

The fourth case, it will be remembered, was a multipara attended on the third day.

She had a quick, natural labor, & did well for the first two days. On the morning of the third day I found her very ill. She had had rigors through the night followed by acute abdominal pain. Her other symptoms were nearly similar to those present in the first case, and after running a very similar course, was followed by death on the ninth day of the confinement.

The fifth case attended early in the morning of the fourth day was a multipara. She was roused from sleep by violent labor pains and sent at once for assistance.

When I arrived shortly afterwards, I found the membranes protruding through the os uterini vaginae, I ruptured these, and the child was born directly. followed in a few minutes time by the expulsion of the placenta by the unaided efforts of the uterus.

This patient recovered without presenting any bad symptoms, and said herself that it was one of the quietest & best recoveries she had ever experienced.

The sixth case attended on the afternoon of the same day as the last was a primiparae.

She had a fairly quick & natural labour. & did well for two days, when she was seized with rigors, followed by peritonitis, cessation of the lochia, & altogether an exactly similar train of symptoms, as were present in the first and fourth cases, followed by death, on the ninth or tenth day of her confinement.

The seventh, and last case was a primiparae who had a tedious, but natural labour.

After doing well for the first two days, she was seized with rigors, followed by peritonitis

and the other symptoms, which were present in the cases already described.

They were perhaps hardly so severe as in the other cases, at any rate they proved more amenable to treatment, & the patient eventually recovered after a long and dangerous illness. This extended over months and left her weak and anaemic, with an offensive discharge from the uterus, purulent in character which continued for a very long time afterwards.

In these cases thus briefly described there are several points of interest.

It is I think beyond doubt that I was dealing with a disease, of a highly contagious nature.

The germs of contagion in my opinion - were carried to the first case of the series, by the medical man who was engaged to attend her, & who had made a vaginal examination, at an early period of her labour. At that time, he was attending several patients with puerperal fever, and he had deaths in his practice, before any of my cases presented symptoms. So that, at the time he made the vaginal examination in my first

case, he was most likely infected with
contagious germs

The second, and third cases did well, showing
that, at that time, I was quite free from poisonous
material, on my fingers, or clothes.

In the meantime the contagious poison which
was very likely communicated to the first case
was taking effect, and on the third day as
already stated serious symptoms were present.

From this patient, I believe I carried a
contagious poison to all the cases I attended
afterwards, with the exception of the multiparas
delivered on the morning of the fourth day.

In this case it will be remembered, only a
single vaginal examination was made.

I ruptured the membranes on my first & only
examination - the baby was born shortly, and
in a few minutes time, the placenta, & its
membranes were expelled.

There must be some reason to explain, why this
patient escaped.

During the examination, I only touched her
momentarily, thus in my opinion minimizing

the risk of contagion.

Frequent and long vaginal examinations, made by a medical man whose clothes, and hands are infected with some contagious poison, are more likely to be followed by disease in those examined, than in those cases where only a single vaginal examination is made.

This patient was in splendid health; might have resisted the action of the poison in any case, but I am inclined to believe that either I communicated no poison to her - on account of the incomplete vaginal examination - or if any was introduced into the vagina, it was washed away, at the time of examination, by the flow of liquor amnii.

Peritonitis was a prominent, & distinguishing feature in this epidemic.

The pain commenced in all the cases over the uterus, & quickly spread all over the abdomen - I think there was a true metritis in the first place, followed by peritonitis.

The uterus in each case seemed at the time of death, to be more enlarged than after the termination of labour -

No post mortem examinations were made. So I could only judge this by feeling through the abdominal walls.

In the patient who recovered, the uterus remained larger than it should have been, for a considerable time afterwards.

In connection with the subject of metritis, and peritonitis, I think that in a large number of the cases I have attended, a certain amount of metritis has been present, but it has only been in the fatal cases, that peritonitis has appeared. So that in connection with prognosis, I would be inclined to say, that it is in those cases of septic poisoning following child-birth, in which peritonitis is well marked, that we may expect fatal results.

If peritonitis is absent even when the symptoms, which are present are very severe, my experience has been that such cases mostly recover. Various remedies, & methods of treatment were tried, but in the three fatal cases, they all seemed useless. The abdominal pain was relieved to a certain extent in all the cases, by the continuation

Application of hot fomentations

Persistent nausea, vomiting prevented the nourishments, and Stimulants ordered from being retained by the stomachs, all the remedies tried, seemed to be alike powerless, over this symptom. The prostration which was present on the first day of the illness, after a few days was so great; that recovery became nearly an impossibility. All the patients had a cautious, haggard expression of countenance, though seriously, & dangerously ill, not one seemed to realize it. Even when so weak, that they could hang more, they all declared that they would recover.

The seventh case though attacked with this disease, recovered. Her symptoms though severe were not so bad as in the others. Vomiting was not present to such an extent, nor was there such great prostration. Her recovery was very slow, & imperfect, and one year after labour when I last saw her she was suffering greatly in health from the effects of her serious illness.

The next epidemic I will describe, occurred in the year 1848.

Here I met with a contagious disease following Child birth, with very severe symptoms whilst they lasted, but from which all the patients recovered.

In a healthy country district, I acted as Locum Tenens, for a medical man.

As soon as I arrived at his home, he departed leaving me on his visiting list four recent confinements.

Three of those four cases were attacked with severe and serious symptoms, a few days after the termination of labour.

The first case attended was a middle aged primipara, she had experienced a long, & difficult labour. The second, third, & fourth cases, all had quick natural labours. My medical friend had attended those cases in the two days preceding his departure, and when he left for his holiday no symptoms had appeared.

Three of those cases were attacked with symptoms very much alike in each. The variations were

unimportant, so that one description will suffice for all.

On the third or fourth day of the confinement the patients had rigors, followed by the symptoms of fever - the skin hot & dry, pulse very quick, temperature very high - in one case 105° Fab.

delirium, cessation of the lochial discharges or of present scant, and offensive, but there was neither peritonitis, nor vomiting.

The symptoms were so severe that I gave a grave prognosis in each case.

This febrile affection continued for three or four days when a distinct crisis seemed to take place. Profuse perspiration followed, by the disappearance of the febrile symptoms & the return of the natural lochial discharges showed that the patients had recovered.

They were weak & debilitated for some little time, but in the end made perfect recoveries.

The above history applies to the first, second and fourth cases.

The third case was a multipara, a weak & strimous, anaemic female. Her age was 32.

This was her eleventh pregnancy, & she was suffering very much from the effects of too rapid child-bearing.

This patient I was informed, had a very quick labour, notwithstanding her debilitated condition, the fact that she had been exposed to some poisonous influences, she made a rapid and perfect recovery. There was not the slightest sign of fever during her confinement. (I learned recently that she died in the following confinement of some complication, I believe septic in character).

Ignorant of the whereabouts of the medical man for whom I was acting, I had not been able to communicate with. I inform him of the febrile affection which had attacked his puerperal patients.

He returned late one night after I had retired to rest, and before I had seen him, he was called up the country that same night, to attend a multipara.

This patient had a long labour, but was delivered by natural efforts.

She progressed favorably for three days, when she was seized with similar symptoms to those which were present in the other three cases. Only that they were more severe. This patient was so ill, that at one part of her illness, I concluded she would die. However after lying in bed for weeks she made a slow, imperfect recovery, and two years afterwards when I last saw her she was still suffering from the effects of this severe disease -

Now this group of cases differs very much from that first described

They resembled each other in one important point viz: - that they both appeared to be very contagious.

This last series from the first to the last case all showed that the medical man had carried some peculiar poison to them.

We could make no suggestion, or give any explanation as to the probable cause of the epidemic. all his previous confinements had done well. he was attending no surgical cases

nor had he made any post mortem for a long time previous -

The cases of the first group were of an asthenic type, where peritonitis, & severe gastric disturbances were prominent features. The mortality was large.

The cases in the last group were distinctly sthenic in character, there was no peritonitis, and very little gastric disturbances, and all the patients recovered.

The third patient attended in this last series was as already stated weak, strumous, & anaemic, and appeared to be the most likely to suffer from the effects of septic poison. Yet she recovered without presenting one bad symptom.

In this case the medical attendant arrived only in time to be present at the birth of the baby. and as a result there was less digital contact with the vagina, than in the other cases.

Why she escaped? I do not know - unless the quiet birth of the baby necessitated little interference on the part of the doctor, & therefore less chance of communicating those contagions

germs, he was carrying on his clothes or hands.

The fifth case was attended by him, after an absence of ten days from his practice and yet the patient developed symptoms, similar to, but more severe than in the others, showing, I think beyond doubt, that he had some poison on his hands, or clothes, and that this poison was still as powerful, as before his departure.

The question now arises:— In these two epidemics have I been dealing with one, and the same disease?

The patients nearly all died in the one epidemic and they all recovered in the other. This is an important difference. But notwithstanding this & other differences, they may both have been produced by a similar poison, acting differently at different times.

We know that this happens in many better known zymotic diseases, e.g. in Scarlatina we have a zymotic disease presenting very different symptoms, & results in different epidemics

In Scarlatina maligna, the mortality is fearful
some patients dying after a few hours' illness.

In Scarlatina simplex, the mortality is nil, all
the patients recovering, if proper precautions are
used to prevent complications.

These two forms of the same disease differ
very much from each other, and I am sure,
if the distinctive symptoms of Scarlatina were
not present in each, no one, judging from the
other symptoms as a whole, would class them
as the same disease. I suppose every one is
ready to admit that the causation in both is
the same. Only we cannot tell the causes which
produce the differences in the symptoms, and
results at different times.

In the epidemics I have described, we have two
different diseases, if we judge from symptoms
and results. But we must remember that
many contagious diseases vary very much in
different epidemics. We may then reason,
that as Puerperal Fever belongs to the Typhoid
class of diseases, it may behave as many others
of the same class, by appearing as a mild

non fatal affection in one epidemic, and in another, as a most severe & fatal disease. I am inclined to believe that in both epidemics the same causation was at work, or in other words they had a similar origin. And that the differences in symptoms, and results were produced, by the unknown causes which influence Typhoid diseases in general.

Both were contagious, the symptoms appeared in each about the third day of the confinement. And in the first epidemic death occurred about the ninth day of the confinement. whilst in the second epidemic, recovery took place in about the same number of days.

Leaving these two epidemics for the present I will now pass on to the consideration of a third, I attended at a more recent date:

This epidemic is very interesting as bearing on treatment, and the results obtained.

Each case at its commencement had all the appearances of malignant Puerperal Fever. & yet the percentage of recoveries was good. I will now give a short account of this

epidemic, only pointing out the chief features of the cases

On the 19th July 182. m.m.f. a multipara was delivered of a living child. She had a quick labour. The baby being born. The placenta expelled, before I arrived. I found the uterus contracted firmly. The placenta appeared to be entire. & everything as I considered was quite satisfactory.

Her husband only earned a small wage, and as they appeared to be improvident, they occupied one apartment, which was in a dirty condition, and served both as bed room, and kitchen. This room was below the street level, being in what is called the sunk flat, it was badly lighted. The ventilation was very imperfect. The weather was very hot at the time, and a fire was kept burning for culinary purposes. The two causes combined rendered the atmosphere of the room very hot. And the insufficient light, the bad ventilation made it a most undesirable & unpleasant place to live in

The drainage appeared to be bad. and altogether the room was in a most unsanitary state. and certainly not a proper place for a puerperal case. M^m P. progressed favorably till the 22^d July when rigors commenced. followed by several serious symptoms. There were acute abdominal pain most severe in the pelvic region over the uterus. Rapid pulse, high temperature, cessation of the lochial discharge. Frequent vomiting. The bowels were constipated. the countenance was anxious. & haggard, There was great prostration.

The peritonitis seemed ~~insensible~~ to treatment. at least the pain in the abdomen was not so bad, but the febrile conditions continued without one hour's remission. the prostration present from the first became daily more marked, till at last the patient died in a state of collapse on the 28th July. or ten days after the termination of labour.

This case presented all the symptoms of Puerperal Fevers, Peritonitis was a prominent feature. altogether the symptoms were very

Much the same as those present in the cases of the first epidemic.

The actual cause in this case has been a matter of conjecture.

The disease may have been ontogenetic.

The bad sanitary condition, the heat of the room may have been sufficient to produce decomposition of the loecheal discharges, and blood poisoning as a sequence -

I made no vaginal examination, and all my cases attended prior to this made good recoveries, so that presumably I had no hands in the causation of the disease in this particular case.

There were six cases attended in rapid succession in the weeks following M^{rs} P.'s delivery. I attended four of these cases, & then my suspicions being roused, on account of M^{rs} P.'s illness. I asked a medical friend to attend the fifth, and got an intelligent nurse to deliver the sixth. I though not present at the birth of the babies in these last two cases. I made the after attendance -

The four cases attended by me, consisted of two Multipara - and two Primipara - Three of these cases had natural, and easy deliveries, but on the third day in each regins set in, followed by peritonitis, & other symptoms very similar to those present in the first case. The description I have already given of this case will suffice for these three, with this important difference, viz: that they all recovered. And this, in my opinion, was probably due to the methods of treatment adopted. This will be considered later on - The fourth case was rather peculiar, and demands a separate description -

M^{rs} S. a primipara aet-20, had been under the care of a firm of medical men, in one of the London suburbs, they told the friends of M^{rs} S. that she was suffering from Renal Dropsy, and that very probably she would die at an early date. M^{rs} S. was removed when mother's house, and I was called in, I found that the menses had ceased for about eleven months.

and this fact probably misled her former medical attendants. She was confined to bed, and vomited the greater portion of her food. Her legs were oedematous - the arms, & upper portion of the body were greatly emaciated - albumen was present in small quantities in the urine - there was a large abdominal swelling which had been mistaken for ascites, but which was really produced by a gravid uterus. I satisfied myself at the first examination that she was far advanced in pregnancy.

The persistent vomiting - emaciation - weak heart - cold extremities, and the fearful debility present, all led me to believe that unless premature labour was induced, death would occur before she reached the full period of gestation.

I therefore proceeded at once, and induced premature labour, by introducing a gum elastic catheter one or seven inches between the membranes, & the uterine wall.

Labour commenced on the following
 day, and after twenty four hours, very
 much to my surprise was concluded by
 natural efforts. The child was still born,
 and appeared as if it had arrived at
 full term. The placenta, & its membranes
 were expelled naturally, & appeared to be
 entire. After delivery the patient ~~was~~
 was extremely prostrated, all nourishments
 and stimulents were instantly rejected
 by the stomach. She passed a restless night
 and on the morning was lying on her back,
 in a semi-conscious state. Her pulse very
 rapid, & weak, as to be hardly perceptible.
 The temperature was 103° Fah. The lochial
 discharge was scanty, the stomach still
 rejected all nourishments.

This low febrile condition continued till
 the end of the third day, when the patient
 died in a state of coma.

There was no sign of peritonitis at any time
 during her illness.

The patient seemed never to recover, or

rally from the exhaustion which was produced by the labour.

I have often wondered since whether I really carried some septic poison to this patient - which in the debilitated, and broken down state of her constitution - acted with the great surety & quickness - or that she simply died from the exhaustion of labour, in the then low condition of her vital powers. I am inclined to believe that septic poisoning was at work.

The fact that all the other cases attended at the same time presented symptoms, and also the febrile symptoms which appeared in this case, would indicate that some septic agent was at work. If the symptoms were caused by septic poisoning, they were of a most asthenic type producing death before Peritonitis, and symptoms present in the other cases had time to appear. The fifth & sixth cases both made good recoveries. I was not present - when the babies were born - but I made the after attendances in both the cases.

These three groups of cases, comprise my experience of Epidemic Septicæmia following Child birth. In all the Accouchement spread the disease. The first, and third epidemics resembled each other in everything but results. The second presented very different symptoms from both, & yet from reasons already stated. They may have all been produced by a similar cause.

I have often met with a disease undistinguishable from Puerperal Fever in symptoms, except that it appeared to be non-contagious. Whilst attending such a case, I could go on delivering other patients and no evil result follow.

This brings me to the Operative cases of Septicæmia, I have met with in practice. One of the most interesting cases of this class was that of Mrs M, attended by me on the 14th Sept 181. She had a quiet & natural labour. The same day, and in the same house, another female was delivered by another medical man. This patient as I was informed had adherent placenta, and post partum hæmorrhage.

followed in a few days by offensive
 loeial discharge, for which vaginal injections
 were ordered by the medical men in
 attendance. The nurse in this case was
 timid, inexperienced, and called in M^{rs} H²
 nurse, who was less timid, but quite as
 inexperienced, to administer those injections.
 This was done without my knowledge or
 consent. I learned that the injections were
 administered three, or four times daily, and I
 don't suppose that the nurse took much pains
 to cleanse, and disinfect her hands afterwards.
 M^{rs} H. progressed favorably for six days. When
 she was seized with rigors, followed by
 peritonitis, high temperature, exceedingly rapid
 pulse, persistent vomiting, loeial discharge
 diminished, & very offensive, and great
 prostration was present. These symptoms
 continued, minus the abdominal pain till
 the ninth, or tenth day of the illness. When death
 seemed imminent, the pulse was barely
 perceptible, the hands and feet were cold, but
 under the free use of sulphuric ether, and other

Stimulants she recovered after a long and serious illness.

Judging from the symptoms, I would have called this a severe case of puerperal fever. It was probably caused by some poison conveyed to her by the nurse.

The nurse was washing out decomposing lochial discharges from the uterus of another puerperal case, three or four times daily. So that very probably she carried some septic poison to my patient.

The symptoms did not appear till the sixth day of the confinement, this is rather late than usual, but in itself was rather favorable for my patient. As my experience has been that the longer the interval between the birth of the baby, the appearance of the symptoms, the greater is the chance of recovery.

Now here we have a case presumably caused by contagion, but all the time of her illness, I was attending confinements in rapid succession and did not carry a poison to one, as they all made good, rapid recoveries.

This looks as if the case was non contagious. It had all the symptoms of Puerperal Fever, & yet differs from it, in this important point. The symptoms were most likely produced by septic poison derived from the decomposing lochial discharges of the other puerperal case, & carried through the nurse to my patient.

The next cases I will mention are interesting in as much as they occurred at different times in the same room, pointing to the belief that there was some hidden cause existing in the room itself.

Wm W. was attended by me on the 2^d January 183. She had a good labour, did well after it, and recovered sufficiently to leave her bed. About the tenth day of the confinement, febrile symptoms appeared, accompanied by diphtheritic patches on the fauces & tonsils. After a long & serious illness she made a slow and imperfect recovery.

At that time I casually learned that a female had been delivered in the same room about one year previous to this

This patient had what my informant called "Inflammation of the bowels" during the puerperal period. She was dangerously ill, but recovered after a long illness.

I never saw the medical men who had attended this case, but from what I was told I considered that some septic cause was at work in producing the symptoms.

On the 15th March 184. I attended another patient in the same room. Mrs B. a primiparae at 26. Had a quick natural labour. The perineum yielded easily, there was no apparent breach of urine, the Placenta was expelled by uterine action aided by gentle pressure on the fundus of the uterus, through the abdominal walls.

The patient was well, & strong afterwards, and continued so till the evening of the 18th March. When she was seized with rigors, followed by peritonitis, high temperature, very rapid pulse & partial cessation of the lochial discharge. Besides the above symptoms, there was one I never witnessed before.

This symptom was nearly complete Obstruction

She could distinguish light from darkness but she could not tell one person from another, except by the voice.

The breasts were very much distended, and painful. The bowels were very costive, and the urine was free from albumen.

I ordered a hot-water enema for the constipation. Hot applications to the abdomen. & *Lumina Morphia* internally.

The following morning I found the abdominal pain gone, but when pressure was made over the uterus great tenderness was felt. All the other symptoms were as severe as on the previous night. The lochial discharge was completely absent. And in addition vomiting had commenced. Vaginal injections of hot-water with Carbolic acid were now ordered, and the *Lumina* of the *Morphia* prescribed in the form of an effervescent solution on account of the vomiting. Stimulants were given freely as there were signs of prostration. The bowels had not acted freely with the enema. So I gave her five grains of calomel. In the evening I found that the lochial

discharge had returned but it was still scanty and offensive. The vomiting had ceased. The temperature was 104° Fah. The pulse was counted 140 beats per minute. She had passed a large and offensive motion. The signs of prostration were not so great.

There had been well marked insomnia from the first day of the confinement. So I gave her 30 grains of Hydrate of Chloral - which produced deep & continuous sleep for many hours. Without going further into the history of this case from day to day, it will be sufficient to state that the febrile symptoms continued, sometimes better. Sometimes worse but that the prostration was gradually becoming greater till the 23rd of the month, when acute abdominal pains again commenced, accompanied with low muttering delirium, pinning of the bed clothes, and death on the 24th. The tenth day of her confinement. The treatment all through was freely stimulating, and three or four days before death. Uterine injections were substituted

for the vaginal ones. These uterine injections were administered twice daily. This was a case of Septicæmia, sufficiently severe as to cause death.

It very much resembled in symptoms, and result, those cases of epidemic Puerperal Fever I have already described. And yet all the other confinements attended by me at the same time, and afterwards made good recoveries.

The source of the septic poison in this case is a mystery.

I noted the two previous confinements attended in the same room as having developed symptoms probably due to septic poison.

So that in the same room three different females had been confined, and in each symptoms of Septicæmia had appeared after labour.

Between each confinement the room had been papered, and painted, it was situated up stairs & was not close to either water closet, or drains. And as far as I could see the room, and house were in a good sanitary condition.

Those three cases of a similar nature, following each other may have been purely accidental. but I am inclined to believe that some hidden cause was at work either in the house, or in the room.

The interesting symptom in this case was the blindness. This lasted for two days then got better but it returned two days prior to, and continued up to death.

The patient was so ill as to prevent the use of the ophthalmoscope, but I believe it would not have told very much.

Very likely the symptom was due to the septic poison acting more strongly on that part of the brain which supplies the optic nerves.

In such cases I have several times seen the sense of hearing very much diminished, but never before have I seen blindness.

I now come to the consideration of four cases which I will notice as briefly as possible.

The two first have been the only two cases of Scarlatina following confinement I have ever seen. The third was a premature labour at the

seventh month whilst the patient had smallpox.

The fourth was one of Typhoid Fever following confinement.

M^{rs} S. a primipara had a natural labour. And after doing well for eight or nine days had shivering, vomiting, and sore throat. And on the second day presented a well marked scarlatinal rash - followed by peritonitis, alteration in the character of the lochial discharge, suppression of the lactial secretion, and all the other symptoms of a bad case of Septicaemia, and but for the distinctive symptoms of Scarlatina, I could not have distinguished it from Purpural Fever.

This patient made a slow & imperfect recovery marked delirium, anaemia, and purulent uterine discharges were present for months afterwards.

M^{rs} M. a primipara showed symptoms of Scarlatina five or six days after delivery. There was a well marked rash. This with the condition of the throat & tongue showed she

was suffering from Scarlatina
 The other symptoms which were present
 were those of Septicæmia pure, and simple
 There was peritonitis, alteration in the character
 of the lochial discharge, and all the other
 symptoms we are accustomed with in Puerperal
 Fever. This patient was dangerously ill, but
 recovered, her recovery was spread over a very
 long period. It is now three years since that
 confinement, and when I saw her lately she
 was still suffering from the effects of her
 serious illness

In both these cases the symptoms were those
 of Puerperal Fever plus the distinctive features
 of Scarlatina -

Whilst I was attending these cases, I went
 on delivering other females, and no evil
 results followed.

So that here we have two cases of Septicæmia
 following child birth, presenting the symptoms
 of Puerperal Fever and yet caused by the
 poison or germs of Scarlatina.

This shows that Septicæmia following

child birth may be produced by more than one poison, and that whatever the cause the action on the principal patient is very much the same.

It is just possible that many sporadic cases, are caused by the poison of Scarlatina. The distinctive features of Scarlatina might be absent, or very evanescent, thus escape detection.

The third case was one of premature labour in a primipara.

This patient had reached the seventh month of pregnancy when she was attacked with small-pox. It was not a very bad case, and it showed the ordinary symptoms for the first three or four days.

Labour now commenced, was terminated quickly. Two or three days after delivery Peritonitis, exacerbation of the febrile symptoms, and all the other signs of Septicæmia appeared, followed by death on the sixth, or seventh day of her confinement.

The small pox here had presented the

usual symptoms till two days after labour, when they gave place to the symptoms of Septicæmia, and assumed a secondary position. It was a well marked case of Septicæmia of the worst type, and yet whilst attending it, I carried no contagion to other patients delivered at the time.

The fourth case of this class I will mention is that of Mrs. S. a primipara at 35 years. I delivered this patient with the forceps. The baby's head was very large, and the pelvis was slightly deformed, and the soft parts were very unyieldable.

It was a most difficult case, and it required a considerable amount of force to accomplish the delivery, with this result, that the perineum was injured to a considerable extent.

There was a fairly large external uterine fibroid tumour in this case, but I do not think this had any influence either on the labour, or on the progress afterwards.

She did remarkably well, for such a case, for seven or eight days.

About this time febrile symptoms of a severe character appeared.

The course of the temperature, the appearance of the typhoid stools, and other symptoms present, indicated Enteric Fever

as in the other three cases. Symptoms of Septicæmia came to the front. Masked to a certain extent those of the Enteric Fever rendering it rather a difficult matter to tell what the disease really was.

This patient had pelvic cellulitis, and after some time an abscess pointed above the groin. This was aspirated, and by degrees the patient recovered.

From the consideration of these and other cases. I am of opinion that many different causes may produce symptoms of Septicæmia following child birth.

There is the large contagious class of which I have noted three epidemics.

All three may have been produced by the same ~~time~~ poison acting differently at different times according as the prevailing epidemic

Constitution of the Period

They were all very contagious, I carried the septic poison in the first and third epidemics. And my medical friend was the carrying agent in the second epidemic. The first and third were identical as to symptoms, but not as to results.

The second was quite different, chiefly distinguished from the others, by the absence of peritonitis, and the non fatal results, but the contagious properties here seemed to be quite as strong ~~then~~ as in the other two more severe epidemics. As a proof of this, it will be remembered that the accoucheur in attendance carried the contagious germs, on his clothes, hands, & communicated them to the first patient attacked, after he had been away for a holiday for ten days or so.

The causes of septicæmia are very obscure. but at the same time are very important. In my first epidemic, I think it was clearly shown, that another medical man communicated the poison to the first

patient attended, For it arose in his practice I cannot say? -

In the second epidemic the medical men could not give a cause, all the four cases were attended within two days, so that there was barely time for him, to have received the poison from the first case attended. The fact was, that the three cases, of the four, that were attacked, presented symptoms within twenty four hours of each other. So that most probably he got infected from some outside source, and communicated the poison to all the patients.

In the two epidemics I attended personally from first to last, I think there was an interval between the first case and the second in each epidemic, during which I was free from poisonous germs, but that I became a carrier of germs, which were produced by those first cases, to all the patients attended afterwards who were attacked.

In the third epidemic, the origin of the first case was only a matter of conjecture.

The patient had a quiet, natural delivery. The baby was born, and the placenta was expelled before I arrived on the scene.

I made no vaginal examination, all my previous confinements were doing well, so that most likely I had nothing to do with the production of the disease in this patient.

The bad sanitary condition of the room may have been the cause of the disease. but this brings forward the questions.

• This contagious form of Septicaemia ever outogenetic? or must the germs of contagion always be communicated to the patient from some outside source?

I am not prepared to answer these questions but I am inclined to believe that an affirmative answer to the latter question is correct.

I am free to admit that the first case of this third series, looked very much as if it were outogenetic.

Whatever the cause in this case there can be no doubt that I carried a poison to all

The other cases attended afterwards, and that this poison was most probably produced in the first case.

Very many isolated cases of Septicaemia present the worst features of purpural fever even to the termination death, and yet there seems to be no contagious element produced. At any rate if such cases possess contagious properties, they are so weak that other patients may be attended in their confinements without risk.

One of the cases I have described very likely was infected through the nurse. The nurse in that case was getting her hands around him or from him daily with decomposing loeual discharges. Without making great efforts to cleanse them afterwards, went up stairs, handed napkins to her patients, and performed all the duties of a nurse, and thus was very favorably situated for carrying contagion, even if it were weak. At any rate I carried no poison from this case to other patients, so that either there

was no contagion at all, or it was so weak that ordinary cleansing proceedings were quite sufficient to destroy it.

In those cases where contagion is carried to them by the accoucheur, I think it is nearly requisite that a vaginal examination should have been made. My own experience in the last epidemic I attended, was that whilst I carried some powerful & mysterious poison to all the patients when I made vaginal examinations. yet the two cases delivered without me, but when I made the after-attendance, recovered well. I must at this time, have been carrying some poison on my clothes, and hands, and yet I did not hurt those two females.

As already stated there are even cases where vaginal examinations are made by medical men who are carrying poison, and yet no evil result follow.

In the first, and second epidemics I described there was a patient in each escaped contagion altogether.

In an ordinary hysterical disease such as

Scarlatina it is customary to see it attacking some, and leaving others, even when they all are equally exposed to the contagion.

This disease does not appear to possess such fearful contagious properties, as Septicæmia following Child-birth.

Septicæmia appears to be so contagious that it is a wonder to me that any patient exposed to the influence of the contagion, should escape at all.

The patient in the first epidemic who escaped was a strong robust female - on the other hand, the one who escaped in the second epidemic was a weak, anaemic, thin individual, and actually died of Septicæmia in the following confinement.

The labours in these two cases were very similar in character. They both had quiet labours necessitating not more than a single vaginal examination. And in the patient I attended the examination was very brief, the finger was not introduced far within the vulva, as the head was lying on the perineum.

with a great bag of water protruding -
 whether there was no poison introduced, or if
 introduced, the incomplete examination, followed
 by the immediate gust of the liquor Amnii washed
 away any germs. I am not prepared to say -
 It tends to reason that frequent vaginal
 examinations made by a medical man,
 whose clothes, and towels are impregnated with
 some contagious properties, are more likely to
 be followed by septic poisoning, than when
 only a single vaginal examination is made.

This may be one of the reasons why primiparæ
 are more susceptible to the influence of
 septic poisons, and typhotic diseases in general.
 When septicæmia does occur in primiparæ
 I believe the symptoms are generally more severe -
 and followed by death in a larger percentage
 of cases.

Of course there are other reasons why primiparæ
 should be more easily affected by septic poisons,
 and when affected why they should be worse.
 The exhausting nature of a first labour must
 render the System more liable to the action of

Symptomatic diseases in general.

Then there is the more frequent wounding of the soft parts in these cases. Every breach of surface seems to open a door for the introduction of septic poison, if any is about. A large number of sporadic cases of Septicæmia seem to be produced by some retained portions of placenta. Strands of membrane or blood clot decomposing in the interior of the uterus. I have again, & again seen cases where acute febrile symptoms were relieved as soon as some decomposing material had either been expelled or been taken away from the uterus. This decomposing tissue in many cases looked very much like placenta.

One well marked and interesting case of this class was that of a multipara who had an abortion at the fourth month.

The foetus was expelled, but the whole placenta was retained, I waited on thinking it would get expelled in the course of time, but peritonitis, and acute febrile symptoms forced me into action.

I chloroformed the patient, and after great difficulty removed a decomposing placenta. The following day, all the symptoms of Septicæmia had disappeared. The patient the one day was in a precarious condition, and on the day following was free from all bad symptoms.

Another case of a similar kind occurred last year. Mrs L miscarried about the fifth month of pregnancy, and as in the last case the foetus was born, but the whole placenta retained. I waited, thinking that the placenta would be expelled, but serious symptoms appeared. There were peritonitis, quick pulse, high temperature, and all the other symptoms of Septicæmia. They were so severe that I thought it very probable that she would die if they continued. The os uteri was so contracted, that only one finger could be introduced. I dilated this by means of Barnes' bags and succeeded after much trouble in removing a large decomposing placenta. The following morning the patient

was better, all the symptoms of Septicæmia having vanished. I must have taken at least one hour to remove the placenta, and during this time my hands were coming freely into contact with decomposing tissue. Yet shortly afterwards, in point of fact within two hours, I delivered a primipara with the forceps, and communicated no poison to her as she made a splendid recovery.

My experience has been, that in the majority of those cases of Septicæmia produced by decomposing material in the cavity of the uterus, the Accouchem runs little or no risk of carrying contagion from these, to other patients attended afterwards.

These are in my opinion cases of pure Septicæmia, and when the Cause is removed early enough, the disease is likewise removed.

In purpural Fevers where the Accouchem carries some powerful mysterious poison and communicates this to nearly all the

patients he attends, we have a form of Septicæmia undoubtedly very contagious, and totally different in this respect from the above class of cases. I have been considering -

In Puerperal Fever it is not necessary that there should be retained portions of Placenta-Strands of membrane, or blood clot in the interior of the uterus -

The uterus may be emptied as thoroughly as possible, and yet that poison which the medical man carries produces severe Septicæ symptoms, & decomposition of some of the tissue proper of the uterus, as shown by the offensive lochial discharges formed in many of these cases.

I have long thought in the contagious form of Septicæmia, there is a specific poison - which is wanting in the non contagious forms. There could hardly be a worse case than that of the lady attended by me this year where the symptoms of Septicæmia were most marked, and quite as severe, as in

any case ever attended by me
 The cause here was obscure. Three
 successive patients who had been confined
 in the same room, were attacked with
 symptoms of septicæmia. This may have
 been purely accidental. And the cause in
 the last case of the three may have been
 portions of placenta, blood clot, or membrane -
 at any rate in this same case, there appeared
 to be no germs produced, capable of being
 communicated to other patients, attended
 afterwards

This looks very much like, as if there were
 contagious, and non contagious varieties.
 Working with mere decomposing placenta
 as has already been shown, need not
 produce septicæmia in patients attended
 afterwards, but if a female is suffering
 from septicæmia of the contagious variety -
 then the medical man in attendance is
 quite unfit to attend other cases for weeks
 afterwards, if he does attend, he will produce
 purpural fever in all or nearly all the

patients he attends.

The behaviour of puerperal cases under the influence of ~~the~~ the poisons of such Typhoid diseases as Scarlatina. Small Pox. and Typhoid Fever. is very remarkable. Why these poisons should produce Septicæmia in puerperal cases. different from those we are accustomed to see produced in other patients is an interesting, and important question.

Each of these poisons in a non-puerperal case produces a distinct train of symptoms. But in a puerperal case they all produce the symptoms of Septicæmia.

They act very much the same way on the patient. as portions of decomposing placenta in the cavity of the uterus. The symptoms are very much the same. yet the causes are quite different.

I suppose these remarkable changes which take place in the few weeks following delivery have something to do with the action of these poisons.

How they should interfere with the powers of Involution I cannot say. Unless this process cannot be satisfactorily accomplished except when a patient is in good health.

This class of poisons seriously derange the health, and have an effect on the majority of the organs of the body. But they appear to set up greater changes in the uterus than in any other organ. The uterus is in a transition state at the time, with its raw placental surface is rendered more liable to the action of Septic poisons, than other organs. The symptoms which are produced, are quite different from those we are accustomed to see when the diseases attack non-puerperal patients. The symptoms of the diseases are masked, and placed in a quite secondary position, so that in a case of Scarlatina following Child-birth, it is not the Scarlatina we are anxious about, but the fearful symptoms of Septicæmia which appear. In the four cases of Typhoid diseases I have mentioned, as having occurred during the

puerperal period, the symptoms were very severe, but they all recovered, except the small pox patient. and whilst attending them I went on attending other patients in their confinements, and carried no contagion.

I have practised amongst the working classes for many years, during which I have seen more times than I can remember females confined in rooms where scarlet fever patients were lying. and in some cases even in the same beds. These females seemed to be uninfluenced by the poison of the scarlet fever, as they made good recoveries. I am inclined to think that puerperal cases do not take scarlet fever more readily than other people, but when they do take it they are more seriously affected.

The only two cases of undoubted scarlatina I have seen following child birth, occurred in houses where there had not been cases of scarlatina for years, and I never could trace the source of the contagion.

The subject of contagion is very important in many ways.

In a case of septicaemia following child-birth the medical man in attendance is not only alarmed about it, but is kept in a state of fright, at the idea of his probably carrying the disease to patients attended afterwards!

He may go on attending other cases, as has been shown, no evil results follow.

On the other hand before he is aware of it, he has spread & produced the disease in nearly all the confinements he has attended with the awful results which we are accustomed to see in those cases.

I suppose the correct plan would be to cease attending all confinements, as soon as suspicious symptoms appeared in a puerperal case.

This plan undoubtedly would be the best to follow, but it would be difficult to carry out. And in some cases would be quite

unnecessary. And it would seriously interfere with the working of a general practice.

I do not know of any symptoms which would distinguish a contagious, from a non contagious case of Septicaemia.

If we are certain that decomposition of retained placenta is acting as the cause - as is frequently met with in premature labours - then my experience has been, that other cases may be attended at that time with perfect safety.

In city populations, the working classes marry very young, and rapid child-bearing is the rule for some years afterwards.

Thus, with the impure atmosphere, improper diet, and bad or inefficient home accommodation - all help to deteriorate the health of the female. In such patients, and I am writing of cases I have seen in London practice - when the baby is born before the arrival of the medical attendant, it is no uncommon thing to find the uterus enlarged full of blood clot - the placenta very often lies in the vagina acting as a plug thus preventing the escape of the blood which usually flows.

This I believe accumulates behind, and in the atomic conclusion of the muscular tissue of the uterus, easily distends it, the doing so increases the accumulation.

In such cases, as a rule it is an easy matter to expel the greater portion of this blood clot, by means of compression of the uterus, through the abdominal walls, and the administration of a dose of Ergot.

Many of these cases do well, but occasionally febrile symptoms appear with offensive lochial discharge and other symptoms of Septicaemia due in my opinion to decomposing blood clot. Some of these cases are very serious. and I remember well, one case which was followed by pelvic cellulitis, and very near had a fatal termination.

Rupture of the perineum to a certain extent is not of very uncommon occurrence in primiparae, even in cases born by the unaided efforts of the female. I have repeatedly seen tears in the perineum.

This may be one of the reasons why

primiparae are more subject to

Complications following delivery.

An open wound, of recent origin over which flows lochial discharge is favorably situated for absorbing poison, especially if the discharge lies & decomposes in the wound.

I have often attended cases where the perineum to my certain knowledge was injured, where symptoms of Septicaemia appeared due in my opinion to absorption through the wound. The permanent effects of Septicaemia on the uterus, when recovery takes place, are sometimes very great.

It was a common thing to find that the uterus had been left in an enlarged state, I suppose that in such cases the process of involution had been stopped, and mucous purulent-uterine discharges followed on for months, or years.

This condition of uterus in a proportion of cases seems to prevent future pregnancies. I have met with numerous females, who have dated all their troubles to a bad

Confinement. They had been barren from that time, and were troubled with Leucorrhoea - In some of these cases I have found enlargement of the uterus, as measured by the uterine sound.

Septicæmia following Child-birth is then, a very serious disease.

The life of the patient is in great danger during the acute period, and when she recovers, she does so slowly and imperfectly and may suffer permanent damage.

She may die years afterwards from some disease brought on by the condition she has been reduced to by the septic poisoning.

To sum up my experience of Septicæmia. I would divide the disease into the two classes. viz the contagious, and the non-contagious. That there are varieties of the contagious class - It may be met with a very slight disease when all the patients recover. and also as a disease producing more serious symptoms up to that form from which nearly all the patients die.

all these contagious forms may be produced by the same poison, acting differently, at different times, as is the case with many zymotic diseases. I am inclined to believe that some specific poison produces these cases. and that this poison is very powerful and contagious. and when once on the clothes, and hands of a medical man it will remain strong & powerful for weeks & months, that the majority of sporadic cases, are either non contagious, or very slightly so, and that the chief causes in these cases are decomposing placenta - membranes, or blood clot - in the interior of the uterus. and that when these are removed early enough - the disease is also removed.

That septic poison may be introduced through tears in the perineum - the vaginal walls, or the os & cervix uteri.

That many well known zymotic diseases when they occur in puerperal cases, produce symptoms of septicæmia which mask, and place the usual symptoms of such diseases

in quite a secondary position,
with this hurried, and incomplete sketch
of the diseases in question, I will now pass
on to the very important part viz: - that of
treatment.

The treatment of this disease necessarily must
be a varied one.

It can be very well divided into the two
branches, viz Preventative, and Curative
treatment.

One of the most important duties of our
accoucheurs is to prevent this disease from
appearing at all, and if it should appear
to do everything in his power to prevent
its spread.

The raw uterine placental surface present
in every case. The tears in the perineum, vaginal
walls, or the os & Cervix uteri which may be
present in others. all render a recently delivered
female peculiarly liable to the action of septic
agents, I pointed out how decomposing
material in the interior of the uterus gives rise
to serious symptoms -

As a routine of practice, it is therefore of great importance to use every known method.

So that the uterus shall be emptied as thoroughly as possible of all portions of placenta, Struck of membrane. & blood clot.

To accomplish this, the best method to pursue and make a practice of is to follow the uterus down when the baby is being born. And see that it is properly contracted before the Umbilical Cord is tied, as soon as the baby is separated, to return to the uterus, & keep up gentle grasping compression, till, and a few minutes after the placenta is expelled.

This mode of procedure will insure - in the majority of cases - that the uterus is thoroughly emptied, and at the same time will prevent post-partum haemorrhage.

In all cases I consider the birth of the placenta, the method in which it is accomplished as very important. And in weak, debilitated anaemic females. So commonly met with in large towns. it is still of greater importance.

As a rule if there is no haemorrhage, the placenta should not be interfered with till it is well down towards the Os uteri vaginalis, then if gentle pressure is kept up on the uterus with one hand, very little traction on the presenting edge of the placenta will effect its delivery.

In cases of retained placenta where there is no haemorrhage - as e.g. in horn glass contraction, by keeping up pressure on the uterus, and waiting for some time, the placenta will in many be expelled.

In adherent placenta, when haemorrhage is not an urgent symptom, and it very rarely is in such cases, except those in which endeavours have been made to accomplish its delivery by pulling on the cord. I am of opinion that hours should pass before any attempt is made to remove it.

In many such cases. firm & continuous pressure kept up on the uterus, & the internal administration of Ergot will effect its expulsion.

If it fails to come, then the hand must be introduced into the interior of the uterus, and the placenta removed. This procedure if performed in a hasty, and imperfect fashion may produce serious after effects. In such cases I strongly advocate the use of Chloroform.

I know its disadvantages, but I don't think they can be compared with the advantages arising from its use.

If portions of adherent placenta really prove dangerous to the female, then it is a most important duty, not to leave such.

In a case where no Chloroform is given. The introduction of the hand, through the already bruised vagina, & into the interior of the uterus - gives rise to great pain. The struggles, and cries of the patient are sometimes very distressing. These together with the great loss of blood which sometimes takes place - act as strong incentives, to nervous medical men. to grasp at, and tear away the placenta in a hurried & imperfect manner - leaving

portions of placenta adhering, which may produce serious symptoms, and even death.

If Chloroform is used, the patient lies quiet. There is no need for hurry, the placenta can be stripped away in the most leisurely manner, and the accoucheur can in most cases be perfectly certain that he has removed the whole of it.

The working classes of large towns are not so robust as country people.

Town life has a bad effect on the process of labour.

It means a life spent more indoors, and this remark applies more to the female sex. The result is that they become debilitated, and are in a condition very far removed from a natural one.

Such females require far greater care during their confinements than robust healthy ones. The muscular tissue of the uterus, seems to have lost tone, and in these cases it is a good plan to stimulate uterine action, by the

administration of Ergot, if there is no
contraindication to its use

My nearly invariable practice of late has
been as following: -

If the labor is progressing favorably, I do
not interfere, as soon as the baby is born
I give a dose of Ergot, and by so doing, the
uterus is made to contract on & expel the
placenta in a more thorough manner. It
prevents relaxation of the muscular fibres
afterwards, constant contraction is kept up,
and the danger of either external or internal
haemorrhage minimized, and Septicaemia
is not so likely to follow.

If there should be any laceration of the
perineum it should be carefully washed
several times daily with warm antiseptic
Solutions.

In cases where we suspect that lacerations
of the os and Cervix uteri have occurred
as in instrumental & turning cases, I think
it a good plan to recommend a similar
Vaginal triquetum for a few days.

In all suspicious cases I suppose it is proper to carefully wash the hands with some antiseptic lotion - this may do good in preventing the spread of the disease in some cases. but in the fatal, and contagious form of the disease I have met with, antiseptic hand washes seemed to do no good.

The lard supplied to anoint the fingers should always be examined - I have found it in a state of decomposition on many occasions, and therefore quite unfit for such a purpose, in this state it might produce septicaemia.

Carbolic oil seems to suit this purpose well, but then we don't carry this about with us, and the majority of patients don't possess it. I have been told by one medical man of great experience that Carbolic oil spread freely over the perineum, and inside the vagina, seems to render the last stage of labour less painful, how I cannot say.

In all cases which appear to be contagious then, it is the bounden duty of the Accoucheur to desist from attending all other confinements till such times as he is free from the contagious germs.

By adopting such methods as I have stated and looking after the patients well. I think that in many cases, Septicaemia is prevented from appearing. The practitioners who deliver his patients in a careless manner - will most probably have complications more common, than the one who bestows great pains in the treatment of his labours. This brings me now to the curative methods of treatment of Septicaemia.

As the disease presents itself in many forms, and the cause is not always the same. So the treatment must vary considerably.

In the milder forms of Septicaemia, where the symptoms are not urgent, not much treatment is required, we must be wholly guided by the symptoms, and treat them as they arise, This form of Septicaemia

as a rule ends in good recovery.

In the remaining pages, I will treat especially on that form of Septicæmia which is epidemic, and contagious, but the treatment of such will as a rule be the best to follow in severe sporadic cases.

One thing I am sure of is this, viz - It is of the utmost importance to commence active treatment very early in the course of the disease, the loss of one or two days at the first onset may make all the difference between recovery and death. These cases if left to themselves often pass rapidly on to death. Before we are properly aware of the serious nature of the illness, the patient is at death's door.

In all those cases which are produced by decomposing material in the cavity of the uterus the plan of treatment is very evident.

This decomposing tissue must be removed to treat the disease successfully.

To do this is not always an easy matter.

I have always experienced great difficulty - after labours at the full time - the interior

of the uterus is large, and it is really
 difficult to tell if the haemorrhage is introduced
 portions of placenta from the tissue of the
 uterus. In these cases warm antiseptic
 uterine injections will generally accomplish
 the desired result - viz the separation of, and
 the expulsion of a piece of decomposing tissue.
 In premature labours, and abortions, the
 placenta is more often a source of trouble,
 and if retained may produce serious
 symptoms and death. In such cases the
 union between the placenta and the uterus
 is more complete. Nature has made no
 preparation for its expulsion at this period
 of gestation. Uterine injections will often fail
 here. In such we must if necessary dilate
 the uterus with tents, or Barnes' bags. Search
 for the placenta with the fingers, and remove
 it, if the fingers can just reach it, but no
 more, then a pair of long narrow forceps are
 of great use. Small portions of placenta
 can be ^{thus} got away when the fingers have
 failed.

In cases of abortion I am of opinion that when the placenta is retained, (not expelled, after waiting a reasonable time,) that before Septicæmic symptoms have had time to appear the placenta should be removed by the fingers, and if they fail, such a pair of forceps as I have mentioned will nearly in all cases be successful in removing the placenta even when it is adherent.

I am confident that the longer it remains in the uterus, it becomes a greater source of danger to the patient.

In cases where peritonitis has been present I have several times tried leeches to the abdominal walls, but never commenced myself that they did any good, but in a case with severe peritonitis, in a plethoric female, and the symptoms as a whole sthenic in character I think the abstraction of blood might be used with benefit. In similar cases I have used blistering agents, but as a rule found them to be of no use.

The effects of both these remedies are
 lasting, and very depressing and it should
 be remembered that, however sthenic in
 character, the symptoms may be at the
 commencement of the disease, as a rule in
 a few days they become asthenic, and require
 not depressing remedies, but free stimulation.
 As an outward application to the abdomen
 when peritonitis is present. I prefer Turbith
 meal poultices in flannel repeated very
 often, or a decoction of poppy heads as a
 constant fomentation - Soothing & bland
 applications such as these are I think more
 to be preferred than stronger Counter
 irritants & Rescues.

at a very early stage of the disease a large
 dose of calomel in many cases undoubtedly
 does good.

If the symptoms are inclined to be sthenic
 in character. Small frequent doses of calomel
 may be given, combined with the free use
 of Quinia, Morphia.

I put my faith more on Quinia Morphia

in a severe case of Septicæmia, than on any other remedy, or combination of remedies -

Five grains of Quinia with twenty minims of the Liquor Morph. Hydrochlor. of the B.P. administered every three or four hours, appears to do good by relieving pain, reducing the temperature, and giving tone to the system.

In such cases the great drawback to this method of treatment is the gastric irritation so frequently present. All the nourishments and remedies employed being rejected soon after they have been given -

I have tried, when vomiting has been a serious symptom - Morphia, Quinia, Citric Acid, and Potash Bicarb. combined so as to form an effervescent mixture, and have got good results; the vomiting diminishing, or disappearing under this treatment.

But in many cases we may try remedy after remedy, and vomiting continues. In British Cholera vomiting is a dangerous and distressing symptom.

In several cases of such, I tried Morphia in

The form of hypodermic injections with this result viz: - that the vomiting was checked completely in nearly all the cases.

In purpural Septicaemia morphia as a rule is clearly required, so that in those cases, in which the stomach rejected all nourishments and medicines, I have used hypodermic injections of morphia, with great benefit to the patients.

When nausea vomiting are bad. and the other symptoms in proportion, the patient has not much chance of recovery, unless we check the vomiting.

The symptoms are so severe that the patient must soon die especially if food and remedies are persistently rejected. so that if the vomiting is checked we place our patient in a better position for recovery. and besides the mere act of vomiting in a patient seriously ill, distresses ^{her} very much. and wears out the remaining strength.

In the case of M^{rs} H I have described as having most probably been infected through

her nurse, I checked vomiting most effectually - after other remedies had failed by administering hypodermic injections of Morphine - I never injected more than $\frac{1}{4}$ of a grain at one time. As soon as the effect of this dose disappeared, the vomiting as surely returned to be again checked by another dose of Morphine - I sat up with this patient during the worst night of her illness, keeping the vomiting under by hypodermic injections of Morphine - and administering Sulphuric Ether. And other Stimulants, and by doing so, I believe I tided the patient over the worst period of her disease.

In the case of M^{rs} B. attended this year I could always check vomiting, by giving her hypodermic injections of Morphine - but as this case - from the severity of the symptoms appeared a hopeless one from the first onset of the disease - in spite of all treatment she died.

In cases of Septicæmia where persistent

vomiting is present. and which resists the action of internal remedies, I would strongly recommend the hypodermic injection of morphia. It should be given in $\frac{1}{4}$ grain doses, from four to six times in the twenty four ^{hours}, according as the severity of the disease. It will relieve pain, procure sleep, calm down the patient. and more important still, will allow of stimulents, nourishments, and other remedies being retained by the patient, and thus give her a better chance of recovery.

Nourishments in the shape of egg beat-up with milk - beef tea. Nourishing soups should be administered very often.

Stimulents as a rule should be commenced very early. the disease kills by prostration. and we should guard against this from the very onset of the symptoms.

Brandy in free doses should be given. and in cases where death seems imminent small doses, often repeated of Sulphuric Ether or some such diffusible stimulant

may tide the patient over a dangerous portion of her illness, and thus lead to her recovery. If we can keep our patients alive sufficiently long, the disease seems to wear itself out, and they recover.

The symptoms are so severe, the duration of the illness so short in fatal cases, that unless we act quickly we can do no good. But important as the treatment I have now been considering may be, I believe that the good results obtained in my last epidemic were due to the injection of solution of Carbolic acid into the cavity of the uterus. In Septicæmia the following child birth, the uterus of all organs in the body, seems to be most affected. It is through the raw surface to which the placenta has been attached, that the septic poison enters the systems in a proportion of cases. It does not much matter how the poison enters the body, as its action on the uterus in all severe cases is very much the same. Even in very slight cases we have

uterine symptoms very often present. The suppression of the lochial discharge - ~~in some~~ or if present scanty and offensive would lead us to believe that the uterus is very much affected by septic poisons.

In cases that terminate quickly in death we often find suppression of the lochial discharge all through the illness. But in all the patients who recover - even if the lochial secretion has been ~~not~~ stopped during some part of the illness - it returns, & always is offensive, and purulent in character.

The interior of the uterus in such cases must be in a filthy condition, at least one ~~of~~ would judge so from the character of the discharges which flow forth.

Injections composed of hot antiseptic solutions would then seem from a rational point of view, to be most likely of great use.

In the first case of the last epidemic, I had Dr. Aneling as a consultant. He recommended a solution of Iodine as an uterine injection.

I used it only in this case and did not satisfy myself that it was any better than Condys fluid, or Carbolic Acid.

In the patients who recovered I used a solution of Carbolic Acid -

All these patients were attacked with symptoms of the most severe order -

The first case might have recovered if uterine injections had been commenced early enough - but the difficulty ^{is} that these injections must be administered by the medical man himself - he should trust no nurse with this duty, however well trained she may be - To the busy practitioner this is an unpleasant addition to his duties - and in my case, at that time

I was very busy I thought it just possible that ^{injections} they would not be required -

In the other cases I was on my guard, and on the first day of the illness used uterine injections

If they are carefully, and slowly thrown into the uterus, they are a power for good

and seldom for evil.

The contact of a warm antiseptic colun with the interior of the uterus, must do good in this class of cases.

The os uteri as a rule is relaxed, and very patent. The nozzle of the syringe can be inserted with great ease up to the fundus. And pints of fluid injected slowly without much force. The fluid runs back directly, and can be felt or seen, if anything should prevent its backward flow. The injection can be stopped till that portion which has already been injected has flowed back.

The fluid in many cases returns full of broken down and decomposing tissue, and patients as a rule express themselves as deriving great comfort & benefit from the use of these injections.

The dangers of uterine injections are small when compared with the advantages, as derived from their use.

I have never found dangerous symptoms produced, nor evil results follow from

then use. and would strongly advocate them as an efficient method of treatment in Puerperal Septicaemia

They must be commenced very early, administered two or three times daily, and from a pint to two pints should be injected on each occasion.

It is a troublesome form of treatment for the busy medical practitioner, as he must give the injections himself, but if it really possesses the advantages I believe it does, then I think the results he obtains will repay him for all the trouble he has been put to.

The death of a puerperal patient is always a serious matter, but when the patient belongs to the poorer working classes, it means in many cases the breaking up of a home, and the death of the baby after some time from improper diet, and general neglect on the part of the nurse, and could be averted for a very small sum of money as recompense -

The medical attendant in such a case has a heavy responsibility. In ^{the} treatment & management of his patient he must leave nothing undone. He thinks would conduce to the recovery, and if he has really done everything he could do, then he has the satisfaction of having performed his duty; even when the case terminates in death.

When recovery takes place - the after-treatment is important. No general rule can be laid down, each case requiring its own special treatment.

In many cases, Iodine and Iron are necessary with wine & good nourishment. Removal to the sea side as soon as possible, does good in many cases -

In very many such cases we may treat as well as we can, but the results are not encouraging.

Anæmia with grave disturbances of the uterine function continues sometimes for years, and certainly none of the Lymotic

diseases I have met with, leave such
lasting, permanent effects on the patients
attacked, as does septicaemia when it occurs
during the puerperal period -