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III.—IS IT RIGHT TO VACCINATE OR REVACCINATE PREGNANT WOMEN?

THE question has frequently been put to me, Is it right to vaccinate pregnant women? Some persons seem to entertain the apprehension that pregnant women incur special and serious risks under vaccination. To justify exceptional neglect of vaccination in their case, it ought to be shown, not only what this special risk is, but also that it is more serious than the risk incurred by the women themselves by taking small-pox, and thus of propagating the disease to others. The community as well as the pregnant woman must be considered.

To make out, then, a case for special exemption, it ought to be shown that the pregnant woman incurs a particular danger. Where is the evidence of this? The following passage from Dr. Meigs's work on *Diseases of Females* (1848) has been cited to me as authoritative in this matter. "Do not," says Dr. Meigs, "vaccinate women when pregnant. I have been the witness of dreadful distress from the operation. Eschew it, I entreat you." It would be very desirable to have the cases justifying this very emphatic assertion recorded. I fear there is some confusion in the matter. Thus, asking for evidences of mischief, as of abortion, from vaccination, I have been told of abortion and serious illness following small-pox. I do not doubt that small-pox is a most serious accident to a pregnant woman. But does it not follow, *a fortiori*, that pregnant women should be protected against small-pox?

My own experience has supplied me with many illustrations which warrant the following propositions.

1. Pregnant women living under epidemic or zymotic influences are more prone to take the prevalent morbid poison than others.

2. Having taken a morbid poison, they are less able to throw it off. Their excreting organs, charged with the double duty of purifying two organisms, are liable to break down under the additional burthen.

3. The morbid poison then pursues its course in a system which is less able to resist its injurious action. Abortion and a most dangerous form of puerperal fever are very likely to follow.

Against this certainly greater risk of taking small-pox, and certainly greater severity of the disease if taken, what, I ask again, is the special danger of vaccination or revaccination? The operation, we know, is not altogether free from danger in adults of either sex. Before resorting to it, it is wise to get the system into good condition. Do pregnant women run more risk than other adults? Probably they are at some disadvantage. But I believe that the special dread of abortion is exaggerated, if not altogether unfounded. The healthy ovum clings to a healthy uterus with wonderful tenacity. An ordinary illness, much less the slight febrile disturbance of vaccination, will not affect this relation. On the other hand, slighter causes may precipitate an abortion already imminent.

So far is vaccination from causing abortion, that cases are known in which the foetus has gone safely through the vaccine disease *in utero*, so that it has subsequently been proof against vaccination.

I think, then, we may conclude, in the absence of decisive evidence of special danger, that pregnant women are entitled to equal protection against small-pox with the rest of the community; and that vaccination or revaccination should be practised on pregnant women, in their own interest, as well as in that of the community of which they form a part.

The opportunity afforded by the present epidemic of settling this question by the evidence of facts on an extensive scale should not be lost. A Zymotic Committee will, I believe, be appointed by the Obstetrical Society. The relations of zymotics to pregnancy, including the influences of vaccination, is just one of those subjects which the collected experience of many practitioners can alone satisfactorily determine.

To show how urgently the particular question under discussion calls for determination, let me cite the contradictory views expressed to me by two of the most experienced and successful public vaccinators in London.

A. says: "I have never had the moral courage to try the effect, although I have very often been tempted to do so. There is a strong feeling in the minds of women against the practice; and the fear of an action in the Court of Queen's Bench has hitherto deterred me from trying the experiment. I have frequently asked the question you now put to me, but have never had a satisfactory answer."

B. says: "I have only vaccinated four pregnant women, and nothing unusual has occurred with either of them. I do without hesitation recommend it, and intend vaccinating all the pregnant women in the workhouse. I have at the present time two women in an advanced state of pregnancy in the infirmary, suffering from variola; and one convalescent from the disease, having gone through the semi-confluent form without aborting."

Is A. right? or is B. right?