



Magnitude of Abortion After COVID-19 Vaccination: How About Rate?

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Dear Editor,

Safety of COVID-19 vaccine is an important clinical concern. The safety of vaccine for specific groups of population is an interesting research question. In clinical obstetrics, COVID-19 vaccination for the pregnant women is a new preventive challenge. A risk for post vaccination abortion is an interesting issue (1). According to a recent report, the observed postvaccination abortion rate is 6.5%, which is significantly high (2). Herein, we would like to share our observations from our setting in a developing country. Here, COVID-19 vaccination for pregnant women has been local public policies for several months. Several kinds of vaccines are used, and the vaccination might be either classical two doses of same vaccines or switching regimen.

Based on local public data on September 2021, from overall 91,239 doses of COVID-19 vaccines, there were two incidences of postvaccination miscarriage. The incidences occurred after completing vaccination (viral vector vaccine in one case and mRNA vaccine in another). Average age of mothers who suffered miscarriage was 25 years old. The two mothers were healthy and had no personal illness and there was no history of obstetric problem during gestation. Gestations are the first gestations and gestational age of the two mothers was 24 and 28 weeks. The incidence started within 1 day postvaccination. No fetal movement was the primary problem and there was no other mother clinical presentation. Termination of pregnancy via spontaneous vaginal delivery occurred within 5 days.

Based on the data, the rate of abortion incidence is equal to 2.19 per 100,000 doses. Nevertheless, similar to the previous report by Zauche et al (1), it cannot definitively conclude that spontaneous abortion during post-vaccination period is associated with vaccine administration or not as pregnancy loss can also be a coincidence. Until present local CDC does still not finally confirm for an exact incidence induced by vaccine. To the best of our knowledge, this is one of the first data on magnitude of abortion after COVID-19 vaccination.

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