

The impact of COVID-19 vaccination on intrauterine fetal demise rates among pregnant women in the Metro-Detroit area

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Abstract

OBJECTIVE: Infection by COVID-19 increases maternal morbidity and mortality prompting both the American College of Obstetrics and Gynecology and the Society of Maternal Fetal Medicine to strongly recommend vaccination during pregnancy. Limited data exist assessing the risk of intrauterine fetal death (IUFD) associated with COVID vaccination during pregnancy.

METHODS: This retrospective chart review at a large multisite hospital system in Metro Detroit reviewed data from 13,368 pregnancies and compared IUFD rates between vaccinated and unvaccinated patients.

RESULTS: The rate of IUFD among unvaccinated patients (0.75%) was not statistically different from vaccinated patients (0.60%; $p=0.693$). The rate of IUFD (1.1%) among Black patients was significantly higher than among White patients (0.53%; $p=0.0008$), but not impacted by patient vaccination status ($p=0.857$).

CONCLUSION: These data may provide reassurance to patients who remain COVID vaccine hesitant during pregnancy.