

COVID-19: Pregnancy Update

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No financial disclosures



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Prior coronavirus pandemics

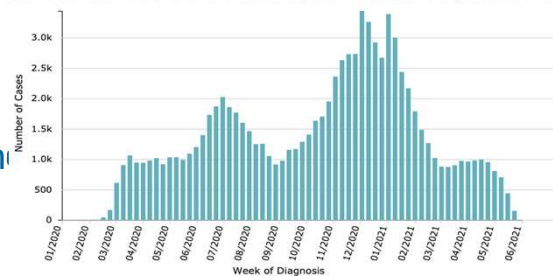
- First wave of SARS in 2002, based on small case series
 - 25% mortality rate
 - 80% preterm delivery
 - 57% risk of miscarriage
- MERS pandemic, based on small case series
 - 27% risk of maternal mortality
 - 27% risk of fetal mortality

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SARS-2-COV virus

- Predicted 16,000 pregnancies in 2020 affected by COVID-19
- Currently CDC reports
- 92,000 affected pregnancies with the virus
- 101 maternal deaths

Cases of COVID-19 among Pregnant Women by Week of Diagnosis*
Data were collected from 91,466 women and date of diagnosis** was available for 91,466 (100%) women.



*There is about a 2-4 week delay in the data for a jurisdiction to confirm a case of SARS-CoV-2 in a pregnant woman and report it to CDC.

**Date of diagnosis is derived from the earliest date of either 1) when the case report was received by CDC from a jurisdictional health department or 2) the earliest available date related to the illness or specimen collection.

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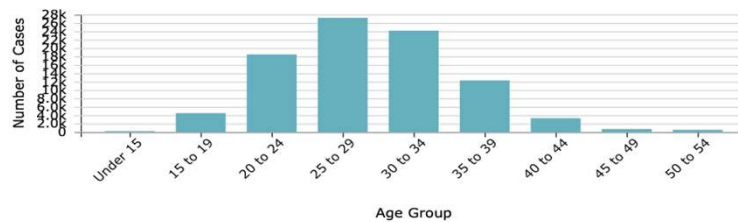
Labor and Delivery

- Second stage of labor not considered an aerosol generating procedure
- Multiple staff at the initial part of pandemic on Labor and Delivery infected
- Currently, N95 are encouraged when dealing with patients

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Pregnant women with COVID-19 by age, United States, January 22, 2020 - May 17, 2021

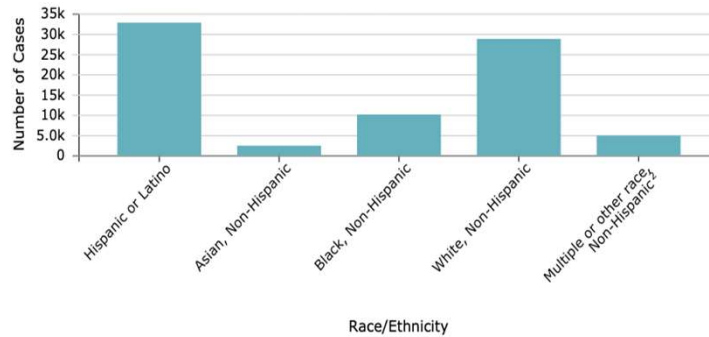
Data were collected from 91,466 women, and age was available for 91,466 (100%) women.



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Pregnant women with COVID-19 by race/ethnicity, United States, January 22, 2020 - May 17, 2021

Data were collected from 91,466 women, but race/ethnicity was only available for 78,928 (86.3%) women.



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INTERCOVID Multinational trial (JAMA; Villar et al, 4/2021)

- 43 institutions, 18 countries
- 706 pregnancy women with COVID, 1424 without COVID
- Higher risk of disease on preeclampsia spectrum (RR 1.74)
- Higher risk of preterm birth (RR 1.59)
- Higher risk of ICU admission (RR 5)
- Severe symptoms more associated with poor neonatal outcomes (RR 4.97)
- 13% of infants of mothers were positive for COVID-19 (unclear if postnatal exposure vs vertical transmission)

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Still figuring out

- Who are the long-haulers among those who got it during pregnancy
- Suggestion it may affect fertility (though decrease in birth rate observed more purposeful)
- Questions regarding menstruation (also with regard to vaccine)

Development of vaccines



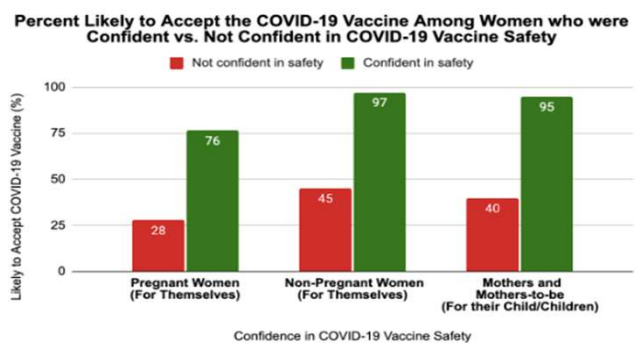
Preliminary data

- Over 35,000 pregnancies
- No difference in preterm birth and pregnancy loss
- Likely crosses into breastmilk
- Likely crosses placenta

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COVID-19 vaccine hesitancy

- Harvard School of Public Health (Skjeftie et al)
- 16 countries
- Looked at 5200 pregnant women, 13000 nonpregnant women
- 52% of pregnant women willing to get vaccine



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