

Pregnancy outcomes of COVID-positive Obstetric patients

A retrospective epidemiological study looking at pregnancy outcomes in pregnant patients diagnosed with COVID-19 after 20 weeks' gestation

Results:

- Data collected over a 6-month period (October 2020 to March 2021), over the 'second wave' of the UK's COVID-19 pandemic.
- Exclusion criteria: post-partum COVID diagnoses, or diagnosis prior to 20/40 gestation
- Final sample size: 44 cases
- Data gathered from maternity handheld notes and neonatal notes, Emergency Department notes, blood test results, radiology imaging, observation charts.
- Limitations: data relied on patients self-reporting community COVID PCR swabs, as these data are not visible on hospital records.

Demographics

- Average BMI: 25.7% (range 17 to 44.5)
- 8/44 (18%) smokers
- Average gestational age at diagnosis: 35+3/40 (range 25+6 to 40+12)
- 20/44 denied any past medical history
- Ethnicities:
 - 24/44 white British
 - 12/44 other European
 - 4/44 South Asian
 - 2/44 Caribbean
 - 1/44 USA
 - 1/44 Mixed White

Maternal Morbidity:

- 6/44 (14%) presented to hospital with only COVID-related symptoms
- 4/44 (9%) required chest X-Ray:
 - 1 showed no changes
 - 1 showed consolidation
 - 2 showed COVID-related changes
- 1/44 (2%) required oxygen – via nasal cannula
- None required non-invasive or invasive ventilation, or ITU admission
- Within 2 weeks' of COVID diagnosis, 15/44 (34%) reported reduced foetal movements

Obstetric Outcomes:

- 27/44 (61%) delivered within 2 weeks of COVID diagnosis
- 16/44 (36%) underwent induction of labour
- 22/44 (50%) normal vaginal deliveries
- 11/44 (25%) assisted vaginal deliveries (forceps or ventouse)
- 11/44 (25%) deliveries by Caesarian section
 - 7/44 (16%) emergency C-sections
 - 4/44 (9%) elective C-sections.
- 7/44 (16%) of deliveries had post-partum haemorrhage (blood loss > 500ml)

Neonatal Outcomes:

- 3/44 (7%) of babies were born pre-term
- Average baby weight was 3087g
- No stillbirths, neonatal deaths or neonatal COVID infection detected

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