

# IMPACT OF COVID-19 PANDEMIC ON FETUS AND NEWBORN: A SYSTEMATIC REVIEW

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## ABSTRACT

**Background:** The COVID-19 pandemic has reported the potential infection to children, including newborns. The data for the intrauterine transmission of Covid-19 during pregnancy and its impact is still limited. This study aimed to investigate the impact of Covid-19 pandemic on fetus and newborns.

**Subjects and Method:** A systematic review was conducted by searching from PubMed, Google Scholar, JAMA, and ScienceDirect conducted in April 2020. The keywords were “child health” AND “COVID-19” OR “newborn” AND “novel coronavirus” AND “infection” OR “intrauterine transmission AND COVID- 19 AND Review”. The data were reported systematically.

**Results:** The reviewed articles were cohort retrospective, case report, review, and systematic review. Intrauterine transmission of Covid-19 in pregnancy remained uncertain. Some studies reported the confirmation of infected Covid-19 in newborns within <2 hours to 2 days birth. Supportive therapy was given according to the clinical conditions of newborns.

**Conclusion:** There is a lack of evidence in the intrauterine transmission of Covid-19 in pregnancy. The infected newborns with Covid-19 are confirmed within <2 hours to 2 days. Supportive therapy is conducted according to the clinical conditions of newborns.

**Keywords:** newborns, Covid-19, infection

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