

# EVALUATION OF MATERNAL AND NEONATAL OUTCOMES OF 523 PREGNANT WOMEN WITH COVID-19 IN A SINGLE-CENTRE : A RETROSPECTIVE CROSS-SECTIONAL STUDY

Erdogan Koca<sup>1</sup>, Fırat ÖKMEN<sup>1</sup>, Burak ÜN<sup>1</sup>, Eren HAYTOGLU<sup>1</sup>, Arzu PINAR<sup>1</sup>, and Yeliz CAVUS<sup>1</sup>

<sup>1</sup>Affiliation not available

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## Abstract

Objective: To evaluate the maternal, perinatal and neonatal outcomes for pregnant women having tested positive for COVID-19 with the reverse transcription polymerase chain reaction (RT-PCR) technique. Design: Retrospective study. Setting: University-affiliated hospital. Population: Pregnant women with confirmed COVID-19 infection. Methods: PCR tests were administered to the women presenting with clinical complaints indicative of suspected COVID-19, or admitted to the hospital for obstetric reasons. The present study used clinical records to collect data such as general characteristics, clinical signs and symptoms, laboratory findings and radiological imaging results of the pregnant women, as well as the types of delivery and RT-PCR data of the newborns from the women who gave birth. Main outcome measures: Data related to the courses of pregnancy, maternal symptoms, types of delivery, and neonatal outcomes. Results: 523 pregnant women tested positive for COVID-19 with RT-PCR technique. Of these pregnant women, 411 had asymptomatic while 112 women showed at least one symptom. Of the 523 pregnant women in total, 384 maintained their pregnancies. Eventually, 135 women gave birth. Twelve pregnant women (2.2%) in total were treated in the intensive care unit, and three (0.6%) died with COVID-19. All the newborns tested with the RT-PCR technique. All the test results were negative. Conclusion: The existing data show that pregnant women with COVID-19 infection may need to be admitted to intensive care, and they may even be under a serious risk of maternal morbidity which may result in maternal death. Funding: None

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