

Study examines the prevalence of COVID-19 infections in pregnant women

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Universal testing of pregnant women admitted to labor and delivery units is part of a multipronged approach to reducing transmission of the virus that causes COVID-19 in hospitals and clinics.

A team led by investigators at Massachusetts General Hospital has now

provided a report on the prevalence of infections with the virus in women admitted to such units in several Boston hospitals. The findings are published in *Infection Control & Hospital Epidemiology*.

Universal testing in the labor and delivery units began more than 30 days after physical distancing orders were placed in Massachusetts.

Over 18 days of universal testing in units at the four major hospitals affiliated with Mass General Brigham Health (which provides maternity care to approximately 14,750 women per year), 757 women were tested. Of those tested, 139 had symptoms possibly consistent with COVID-19.

Among symptomatic women, 7.9% tested positive (11 women) for SARS-CoV-2, the virus that causes COVID-19. Among asymptomatic women, 1.5% tested positive (9 women).

Thus, 9 of the 20 women—or 45%—who tested positive at admission had no symptoms of COVID-19. Across the four hospitals, none of the positive asymptomatic [women](#) developed COVID-19 symptoms during their hospitalization, and all 9 newborns tested negative for the SARS-CoV-2.

"Although our results indicate a low prevalence of SARS Cov-2 in an asymptomatic pregnant population, my coauthors and I believe that universal testing of this population can provide a window into the community prevalence of infection, which can in turn help guide decision-making about moving between mitigation versus containment measures in the [hospital](#) and in the community," said lead author Ilona Telefus Goldfarb, MD, MPH, a Maternal-Fetal Medicine Specialist at Mass General and Harvard Medical School.

The researchers noted that universal testing in this specific patient population is an especially important public health priority given the

potential dangers of COVID-19 for maternal and newborn care during and after birth.

"Our findings underscore the importance of understanding the local prevalence of disease, which varies across geographical areas and will change over time due to many factors. Tracking prevalence prospectively can inform public health interventions and our approaches to testing," said co-senior author Erica Shenoy, MD, Ph.D., Associate Chief of Mass General's Infection Control Unit and an Assistant Professor of Medicine at Harvard Medical School.

More information: Ilona Telefus Goldfarb et al, Universal SARS-CoV-2 testing on admission to the labor and delivery unit: Low prevalence among asymptomatic obstetric patients, *Infection Control & Hospital Epidemiology* (2020). [DOI: 10.1017/ice.2020.255](https://doi.org/10.1017/ice.2020.255)

Provided by Massachusetts General Hospital

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