

# REPORT #4

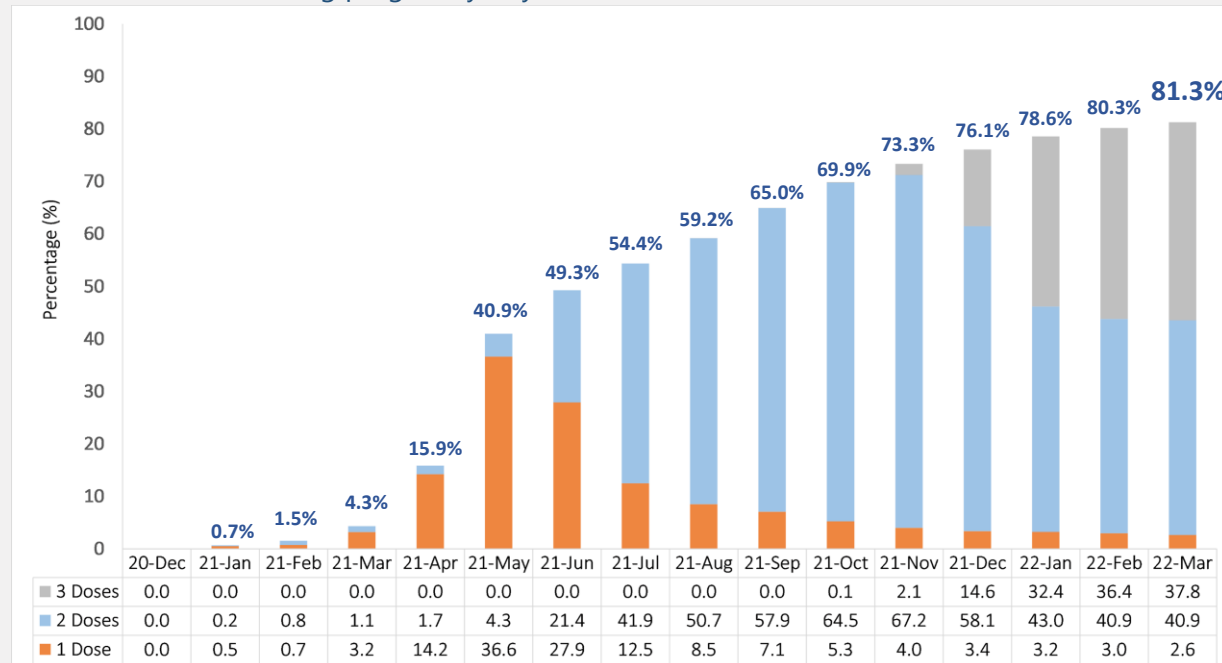
## COVID-19 VACCINATION DURING PREGNANCY IN ONTARIO

December 14, 2020 to March 31, 2022

### BACKGROUND:

Pregnant individuals are considered a high-risk population for COVID-19 complications, based on higher rates of COVID-19 hospitalization, intensive care unit (ICU) admission, and death compared with non-pregnant individuals. Since late April 2021, pregnant people in Ontario have been prioritized for COVID-19 vaccination as part of Phase 2 of the COVID-19 vaccine program implementation. To-date, vaccine coverage in pregnant individuals has remained lower than in the general population<sup>a</sup>. The **Better Outcomes Registry & Network (BORN) Ontario** ([www.bornontario.ca](http://www.bornontario.ca)) is evaluating COVID-19 vaccination in pregnant individuals in Ontario. **This report shows data on vaccine coverage among individuals who were pregnant at any point between December 14, 2020 and March 31, 2022.**

**FIGURE 1.** Estimated percentage of pregnant people who had received at least one COVID-19 vaccine (before or during pregnancy), by calendar month



\*Pregnant people in Ontario were prioritized for COVID-19 vaccination on April 23, 2021.

### WHAT THE DATA SHOW:



**Among people who were pregnant in March 2022, 81.3% had received one or more doses before or during pregnancy:**

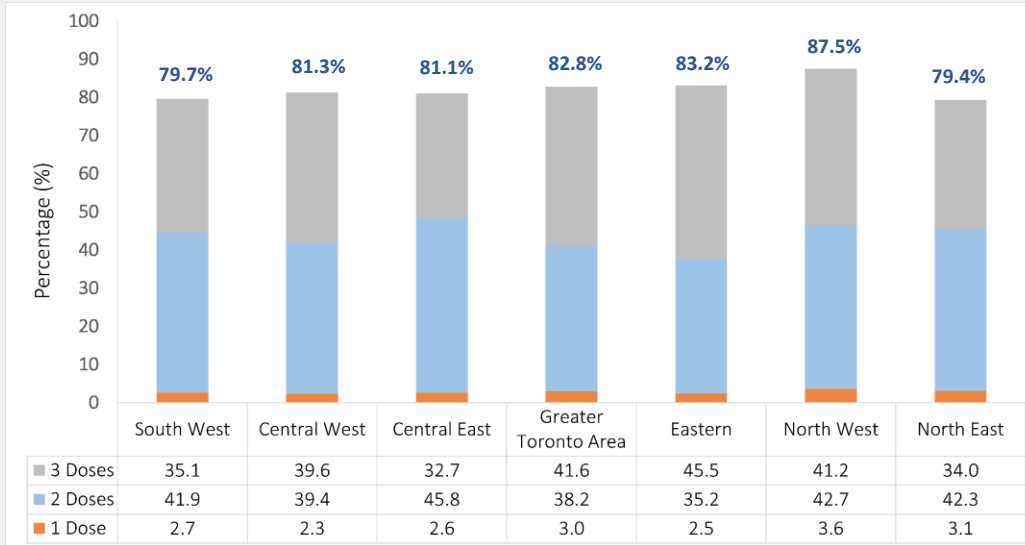
- **2.6%** had received at least one dose of COVID-19 vaccine before or during pregnancy.
- **40.9%** had received two doses of COVID-19 vaccine before or during pregnancy.
- **37.8%** had received three doses of COVID-19 vaccine before or during pregnancy.
- **18.7%** still had not received any doses of COVID-19 vaccine.

This work is supported by the **Public Health Agency of Canada**, through the **Vaccine Surveillance Reference Group** and the **COVID-19 Immunity Task Force**.

The report is based on data extracted from the Ontario Ministry of Health's COVaxON and from the BORN Information System (BIS).

Disclaimer: the results of this report may differ from other reported estimates due to differences in data sources and data processing lag times.

**FIGURE 2.** COVID-19 vaccine coverage ( $\geq 1$  dose before or during pregnancy) in the pregnant population by Public Health Region in March 2022\*

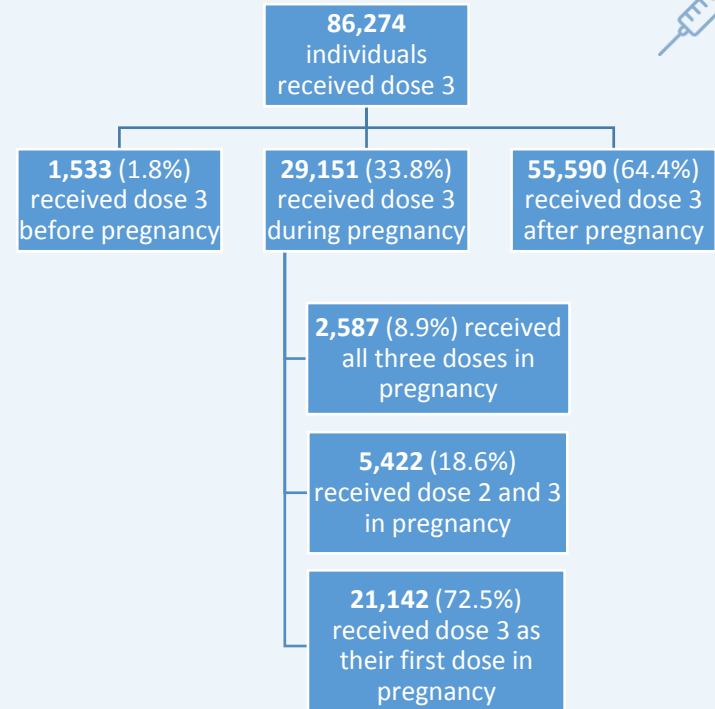


\*Completed pregnancies and pregnancies ongoing as of March 31, 2022

**Among people who were pregnant in March 2022:**

- COVID-19 vaccine coverage across Public Health Regions ranged from 79.4% to 87.5%.

**FIGURE 3.** Timing of dose 3 of COVID-19 vaccine in the pregnant population



**TABLE 1.** Trimester of dose 3 as the first COVID-19 vaccination during pregnancy

Trimester of dose 3 as first dose in pregnancy	Frequency (%)
<b>1<sup>st</sup> trimester (&lt;14 weeks)</b>	7,316 (34.6)
<b>2<sup>nd</sup> trimester (14-27 weeks)</b>	11,520 (54.5)
<b>3<sup>rd</sup> trimester (<math>\geq 28</math> weeks)</b>	2,306 (10.9)
<b>Total*</b>	21,142

\*18,254 of these pregnancies are still ongoing

**BIRTH OUTCOMES:**

A recent study published in the *Journal of the American Medical Association*<sup>b</sup> using BORN Information System data explored outcomes for over 95,500 pregnant individuals and newborns following **COVID-19 vaccination during pregnancy**. Vaccinated individuals had **no increased risk** of postpartum hemorrhage, chorioamnionitis, cesarean delivery, and their babies **did not have** higher rates of admission to neonatal intensive care unit and low newborn 5-minute Apgar score compared with those who were not vaccinated during pregnancy. See infographic at this [link](#). Studies looking at other birth outcomes (e.g., preterm birth) are ongoing.