

Windsor-Essex County COVID-19 Weekly Epidemiology Update

April 20th, 2022

Due to the recent surge in Omicron cases and changes in eligibility for testing, testing capacity is limited and case, contact, and outbreak management has been modified to focus on high-risk settings. As a result, case counts in the report are an underestimate of the true number of individuals with COVID-19 in Windsor-Essex County and may impact data completeness. Please interpret these data accordingly. Changes in testing criteria are marked by vertical line on the charts, and due to these changes, data from before December 31, 2021 should not be compared to data after the testing changes.

Data Highlights (week of April 11 - 17, 2022)

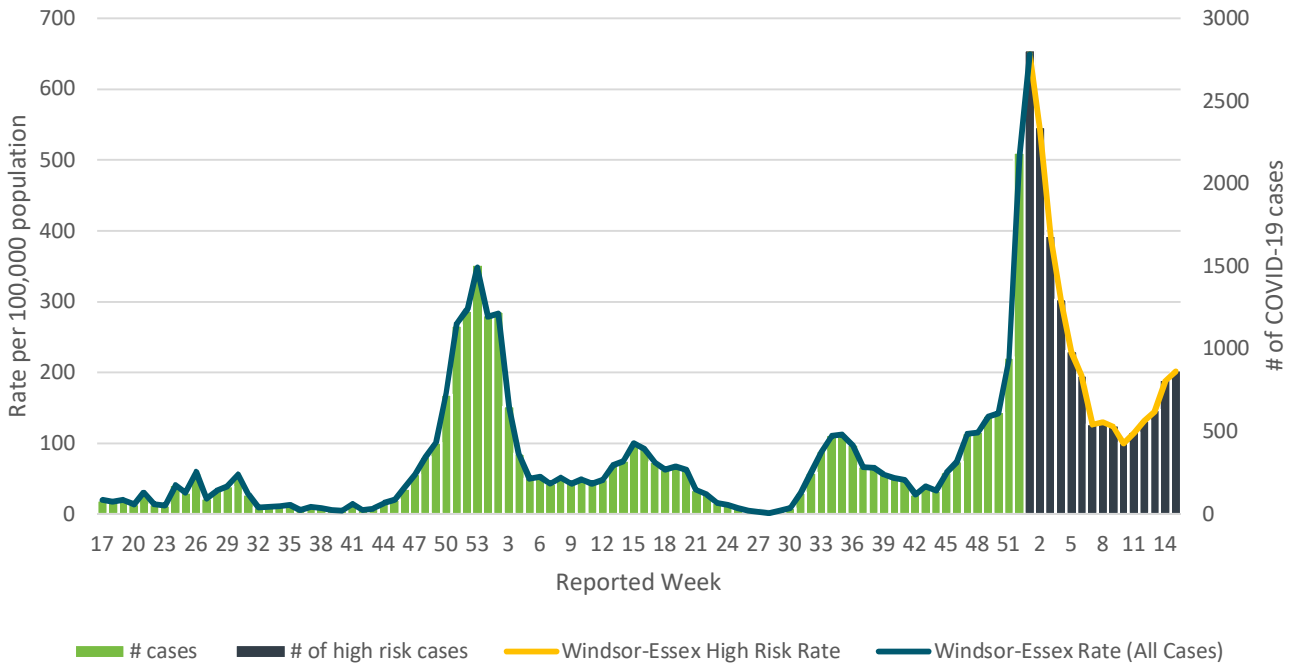
- The weekly high-risk case rate is 201.1 cases per 100,000 population, an increase of 6.7% compared to the previous week.
- Percent positivity increased by 1.4 percentage points from 20.5% (April 3 - 9, 2022) to 21.9% (April 10 - 16, 2022).
 - Weekly percent positivity at long term care homes increased for Windsor-Essex County.
- Number of in-patient hospitalizations remained unchanged for Windsor-Essex County but increased in Ontario.
- Wastewater viral signals for April 11 - 17, 2022 continued to increase from last week.
- One death was reported this week (April 11 - 17, 2022), which is lower than three deaths reported during the previous week (April 4 - 10, 2022).
- Seven outbreaks were declared during the current week (April 11 – 17, 2022) compared to ten outbreaks declared during the previous week (April 4 – 10, 2022).
- Windsor-Essex County has an overall third dose coverage rate of 51.3% for residents 12 years and older.
 - Local residents 12 to 17 year olds have the lowest third dose coverage rate (10.5%), whereas the 80+ age group has the highest coverage rate (87.0%).

COVID-19 Cases in Windsor-Essex County (WEC)

Trends

For the most recent completed week of April 11 - 17, 2022, the high-risk case rate was 201.1 cases per 100,000 population, which is higher than the previous week's rate (April 4 - 10, 2022; 187.6 cases per 100,000 population; **Figure 1**). Since the changes in testing strategy on December 31, 2021, a consistent decline in case rate was observed until mid-March, followed by a consistent increase during the past five weeks. Estimates of the case rate are likely an underestimate due to limited testing capacity.

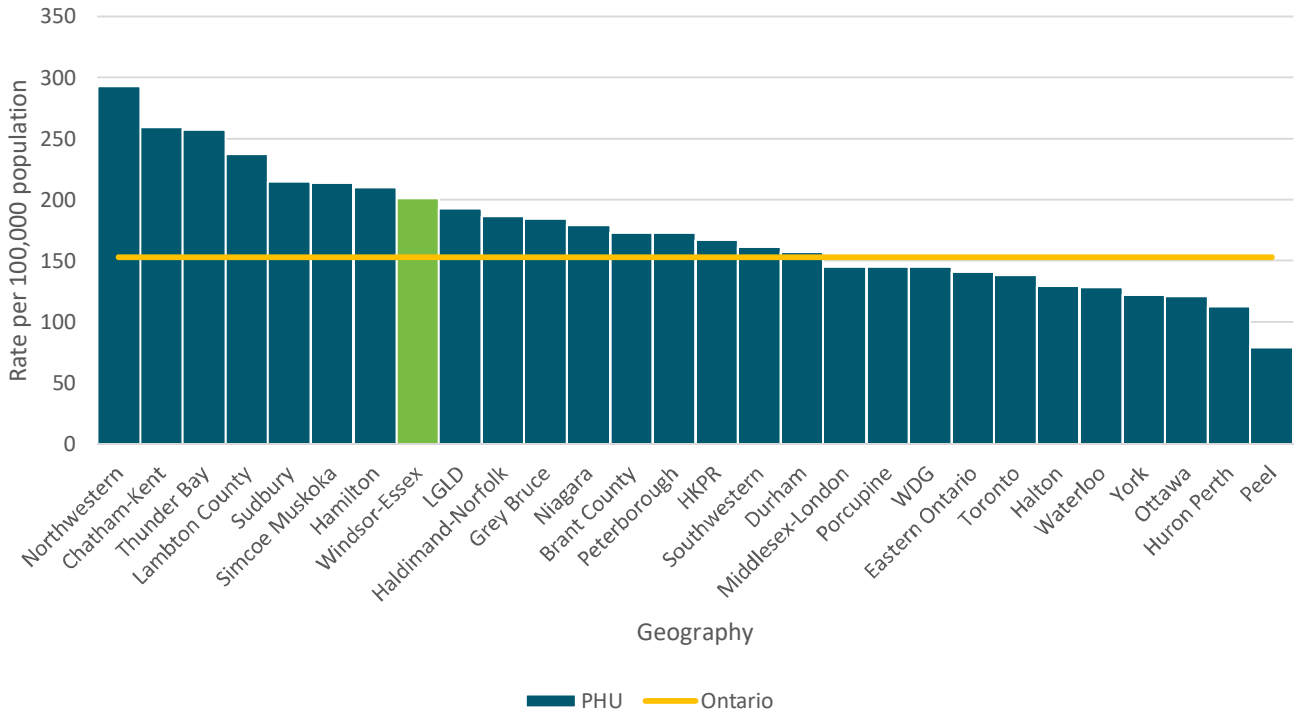
Figure 1: Confirmed COVID-19 case rates in Windsor-Essex County by reported week: Week 17, 2020 to Week 15, 2022.



Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [19/Apr/2022] at 11:30 am.

During the past week (April 11 - 17, 2022), the high-risk case rate for Windsor-Essex County has increased and a similar increase was observed for all health units across Ontario except Grey Bruce, Porcupine and Huron Perth, which reported a slight decrease in their case rates. Windsor-Essex County has the eighth highest weekly high risk case rate in the province (**Figure 2**). As testing has been limited to cases in high risk settings, the rates are an underrepresentation of the true case rate.

Figure 2: Weekly COVID-19 high-risk case rates across health units in Ontario: April 11 - 17, 2022.

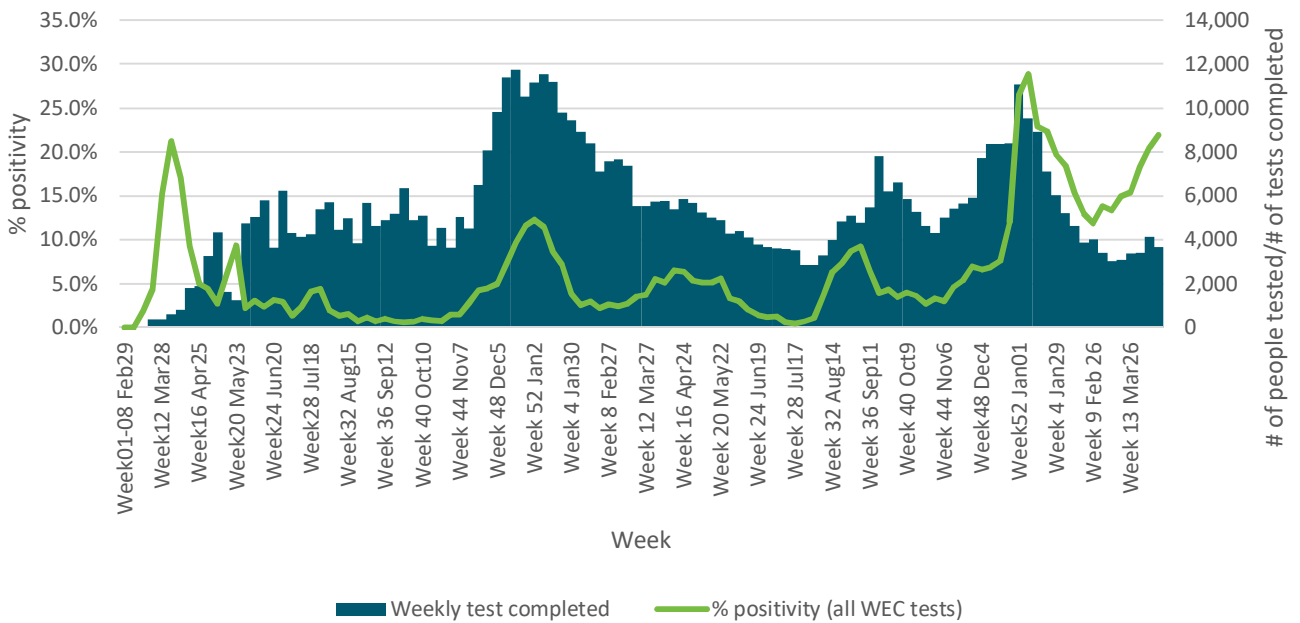


Source: COVID-19 Testing Report, SAS Visual Analytics Hub. Data extracted on April 19, 2022.

Percent Positivity

As seen in **Figure 3**, the percent positivity for the most recent completed week (April 10 - 16, 2022) is 21.9%, which is 1.4 percentage points higher than the previous week (20.5%; April 3 - 9, 2022). After peaking in mid-January, there was a decline in percent positivity until March, after which a consistent increase has been observed.

Figure 3: Percent positivity of tests conducted in Windsor-Essex County for COVID-19: February 29, 2020 to April 16, 2022

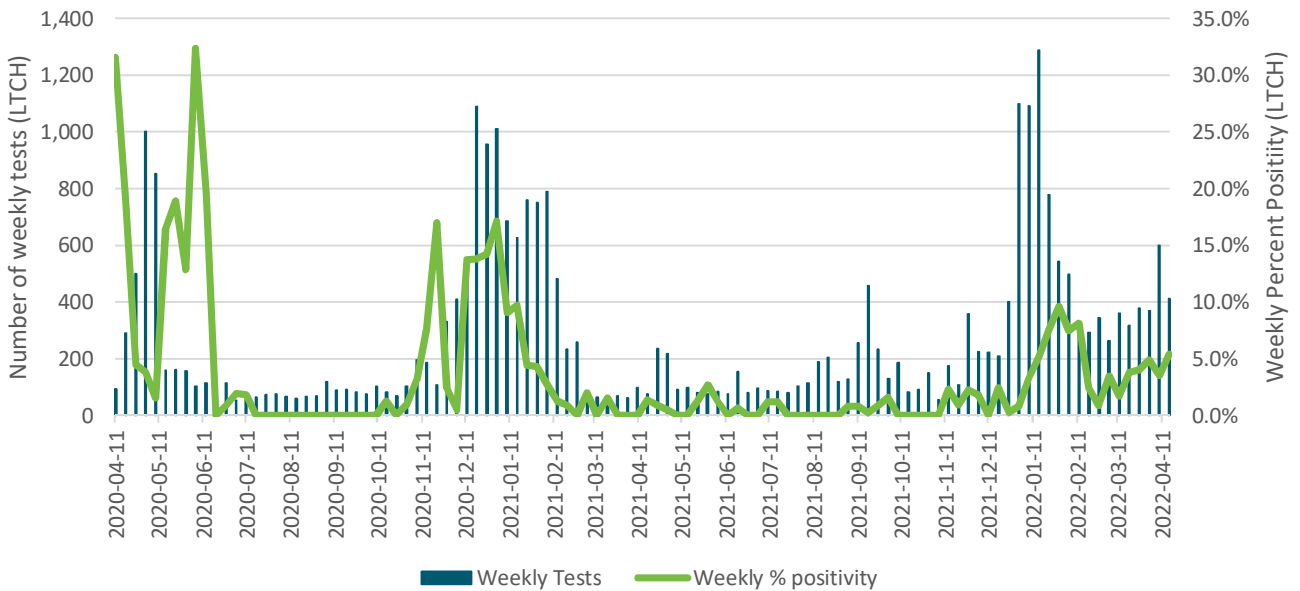


Note: Due to the minor daily fluctuations in the number of tests, the percent positivity rates should be interpreted with caution.
Source: COVID-19 Testing Report, SAS Visual Analytics Hub. Data extracted on April 19, 2022.

Percent Positivity – Long Term Care Homes (LTCH)

Figure 4 reports the weekly percent positivity of COVID-19 cases at long term care homes. Percent positivity for the most recent completed week (April 10 – 16, 2022) is 5.4%, which is 1.9 percentage points higher than the previous week (3.5%; April 3 – 9, 2022). Overall, the percent positivity remains high and an upward trend can be observed since early March 2022.

Figure 4: Weekly percent positivity of tests conducted at long term care homes in Windsor-Essex County for COVID-19, April 11, 2020 to April 16, 2022.



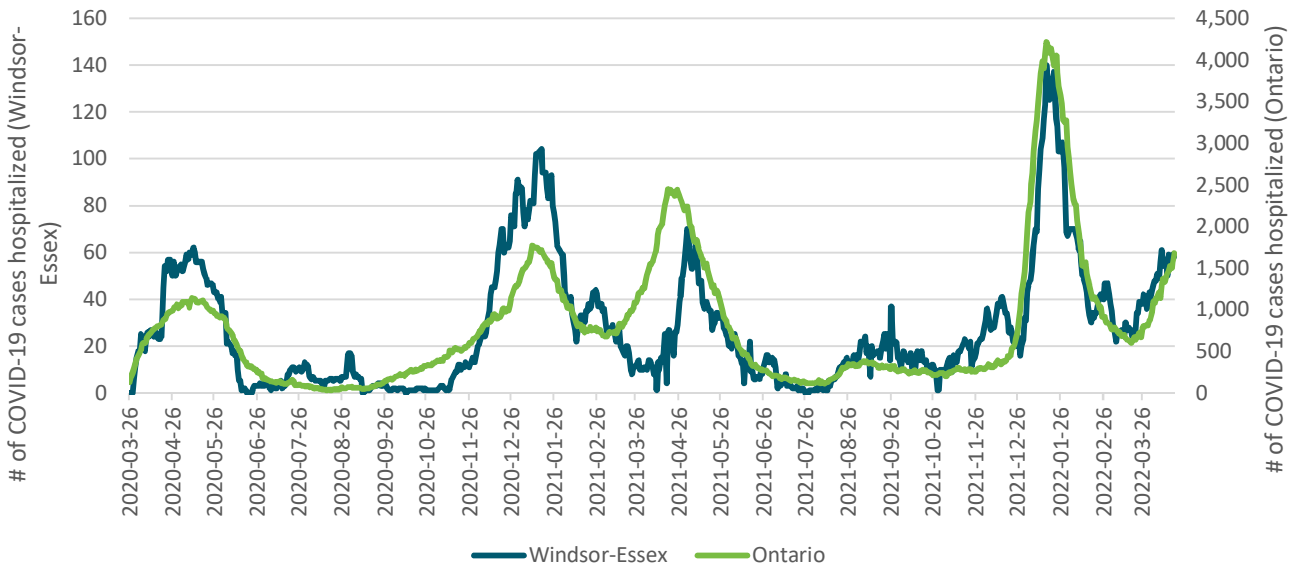
Note: Dates on the horizontal axis represent end of the completed week.

Source: COVID-19 Testing Report, SAS Visual Analytics Hub. Data extracted on April 20, 2022.

Hospitalization and ICU Admissions

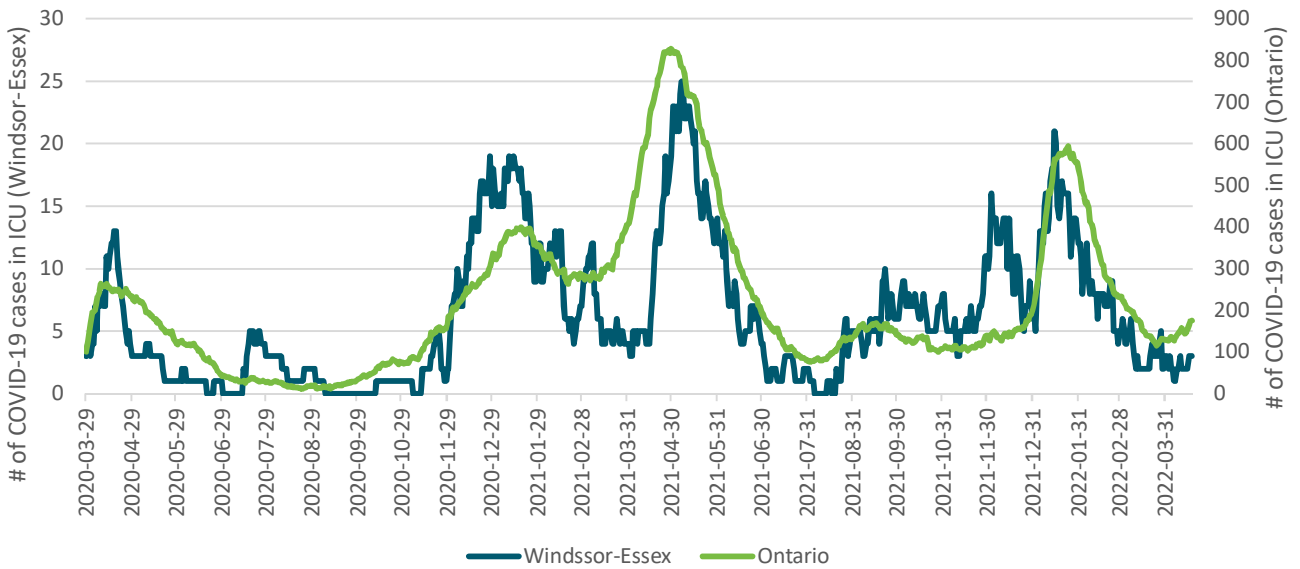
For the most recent week (April 11 - 17, 2022), there have been 68 new hospital admissions which is similar to the number of admissions seen during the previous week (April 4 - 10, 2022; **Figure 5**). One new COVID-19 patient was admitted to ICU this week (April 11 - 17, 2022), compared to two admissions reported during the previous week (**Figure 6**). Compared to the previous week, ICU admissions declined for WEC but an increase was observed in Ontario.

Figure 5: Confirmed COVID-19 case in-patient hospitalizations in Ontario and Windsor-Essex County: March 29, 2020 – April 17, 2022



Source: COVID-19 Regional Hospitals Report, SAS Visual Analytics Hub. Data extracted on April 19, 2022.

Figure 6: Confirmed COVID-19 case ICU hospitalizations in Ontario and Windsor-Essex County: March 26, 2020 – April 17, 2022



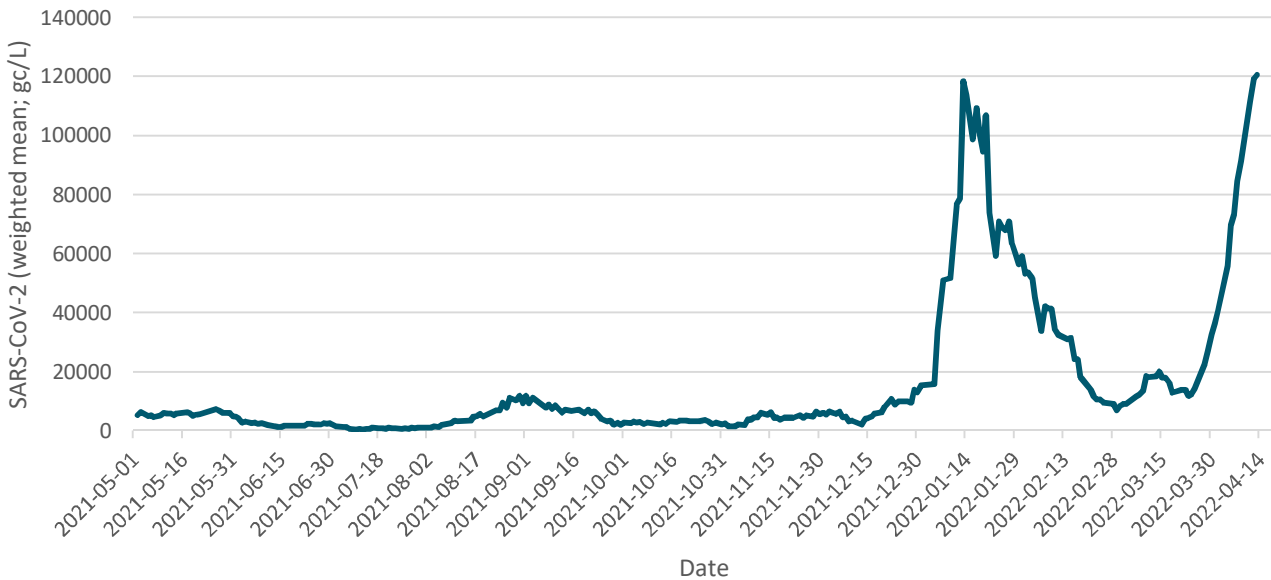
Source: COVID-19 Regional Hospitals Report, SAS Visual Analytics Hub. Data extracted on April 19, 2022.

Local Wastewater Surveillance

Research has shown that a significant proportion of individuals with COVID-19 infections shed the virus (SARS-CoV-2) in their stool, at times even before the onset of symptoms. The health unit has partnered with the Great Lakes Institute for Environmental Research at the University of Windsor which collects and treats wastewater for the WEC population.

For the current week (April 11 - 17, 2022), the signal intensity showed a continuous increase throughout the week using a 7-day rolling average (**Figure 7**). Overall, the viral signal remains high and is comparable to the peak observed during the Omicron wave in late December of 2021 and early January of 2022.

Figure 7: COVID-19 wastewater viral signal (7-day rolling average) in Windsor-Essex County: May 1, 2021 – April 17, 2022

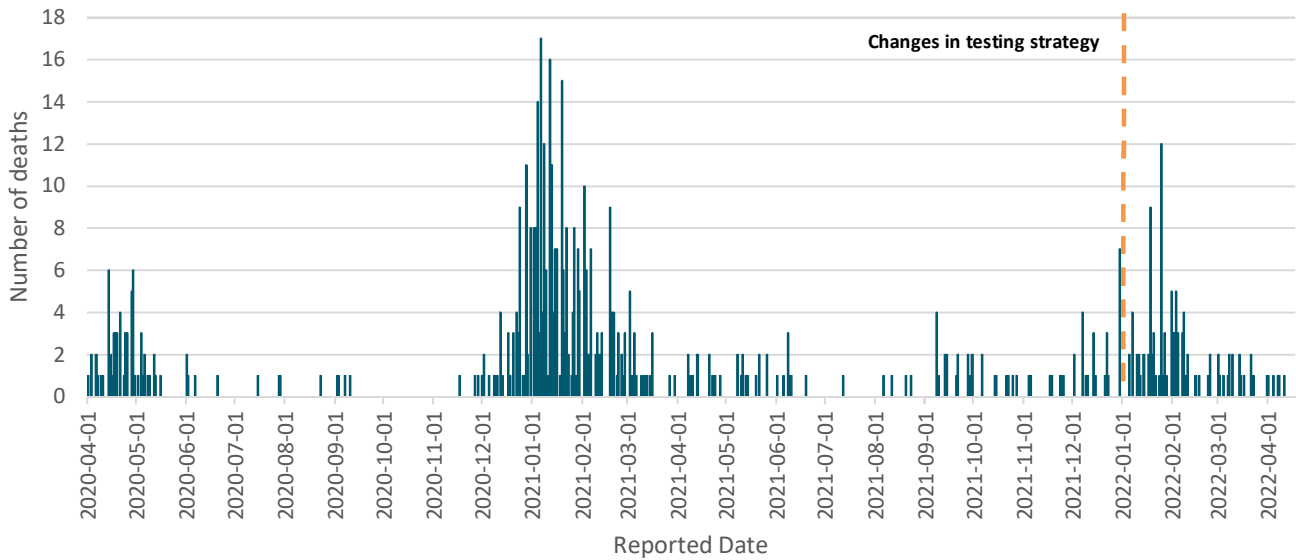


Source: Great Lakes Institute for Environmental Research, University of Windsor. Data extracted on April 19, 2022.

Deaths

As of April 17, 2022, Windsor-Essex County has reported a total of 598 COVID-19 related deaths. One death was reported during the current week (April 11 - 17, 2022; **Figure 8**), compared to three deaths reported during the previous week (April 4 - 10, 2022).

Figure 8: Confirmed COVID-19 related deaths in Windsor-Essex County: March 31, 2020 – April 17, 2022.

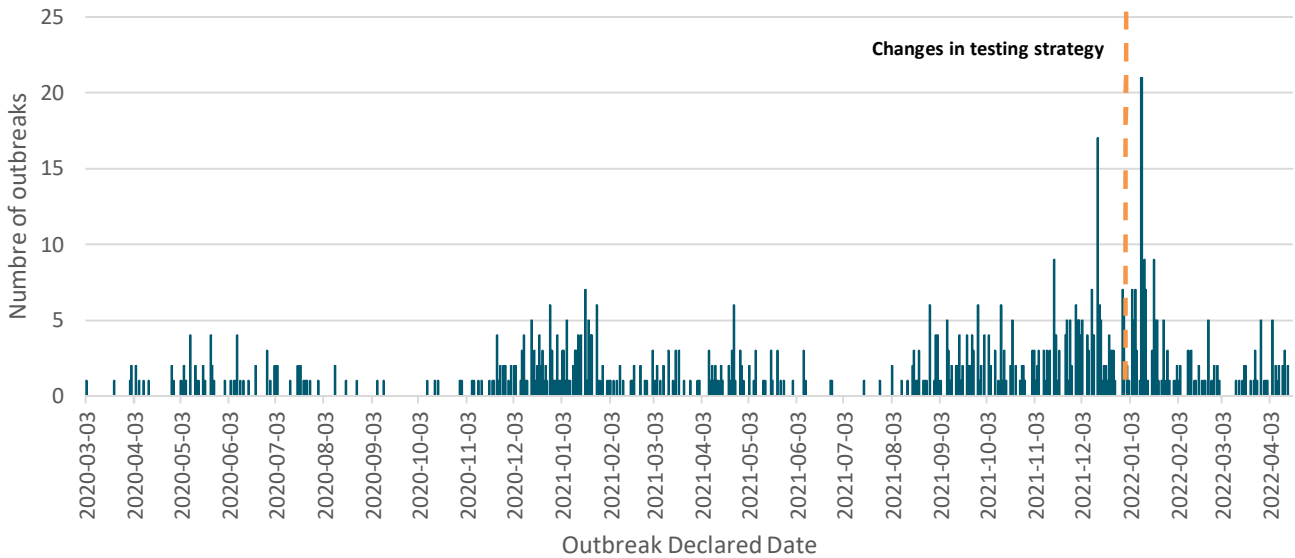


Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [19/Apr/2022] at 11:30 am.

Outbreaks

As of April 17, 2022, Windsor-Essex County has 24 active COVID-19 outbreaks (**Figure 9**). Seven outbreaks were declared during this week (April 11 - 17, 2022) compared to ten outbreaks declared during the previous week (April 4 - 10, 2022). Due to the changes in testing strategy focusing on high risk settings since January, most of the current outbreaks are in long-term care homes, retirement homes, agricultural settings, and in other congregate settings.

Figure 9: Number of confirmed COVID-19 outbreaks declared by Windsor-Essex County: March 31, 2020 – April 17, 2022.



Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [19/Apr/2022] at 11:30 am.

For more information on local COVID-19 statistics, please visit:

<https://www.wechu.org/cv/local-updates>

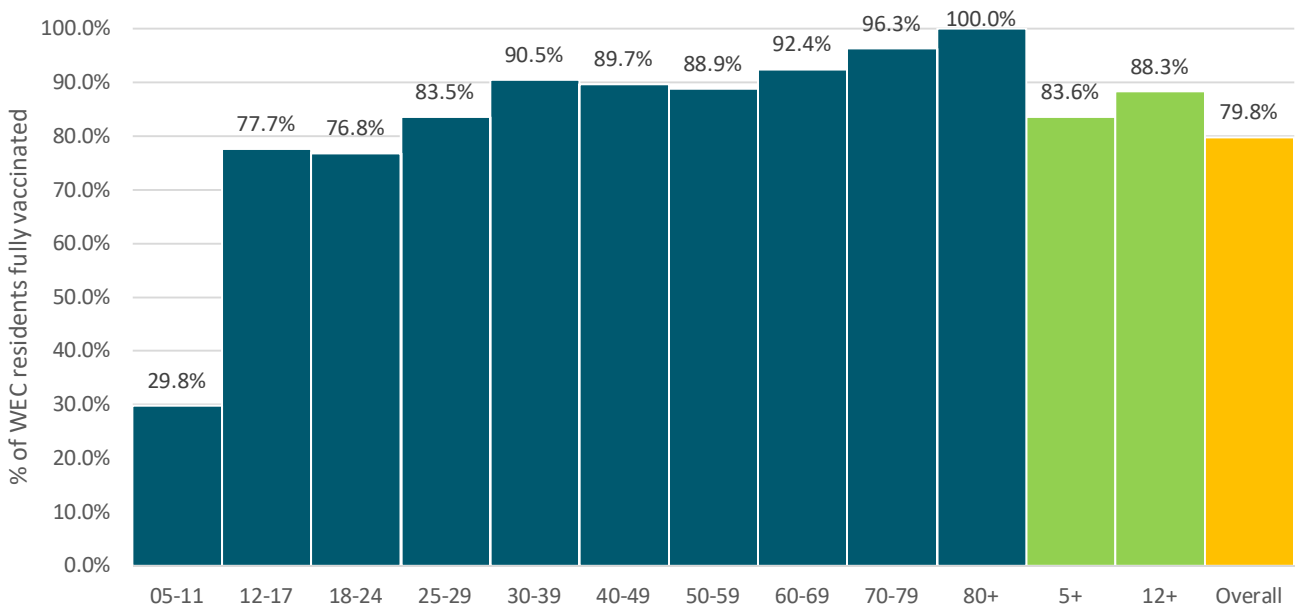
COVID-19 Vaccination Status in Windsor-Essex County

Over 3,556 doses were administered to Windsor-Essex County residents in week 15 (April 11 to April 17) compared to 1,839 doses in week 14 (April 4 to April 10). This represents a 93.4% increase between the two weeks.

Fully Vaccinated Coverage Rates by Age Group

Overall, the 5-11 age group has the lowest coverage rate for two vaccines (29.8%), followed by those in the 18-24 age group (76.8%) and 12-17 age group (77.7%) (**Figure 10**).

Figure 10: COVID-19 Fully Vaccinated Coverage Rate by Age Group in Windsor and Essex County: April 19, 2022

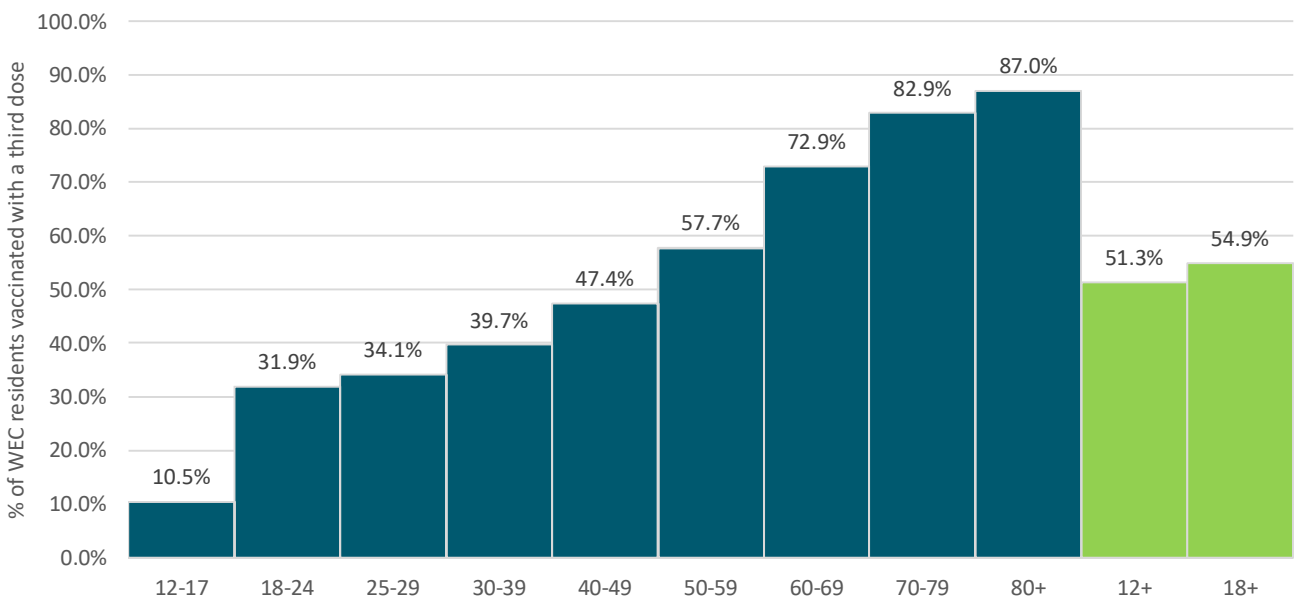


Source: Vaccine administration, Ontario Ministry of Health, IntelliHeath COVaxON. Data extracted on: April 19, 2022

Coverage Rates for Third doses by Age Group

The overall coverage rate of third doses among eligible Windsor and Essex County residents is 51.3%. Comparing across ages, the 12-17 age group has the lowest third dose coverage rate (10.5%), followed by those in the 18-24 age group (31.9%) and 25-29 age group (34.1%) (**Figure 11**).

Figure 11: COVID-19 Third Dose Coverage Rate by Age Group in Windsor and Essex County: April 19, 2022

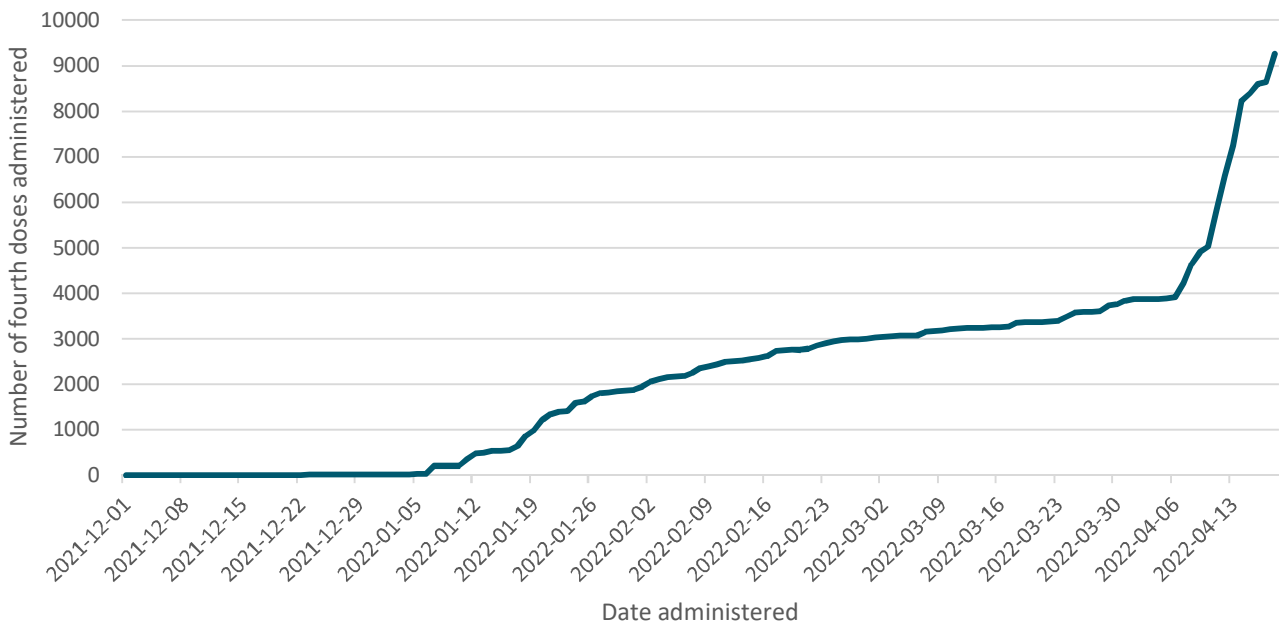


Source: Vaccine administration, Ontario Ministry of Health, IntelliHeath COVaxON. Data extracted on: April 19, 2022.

Cumulative Fourth Doses Administered Over Time

As of April 19th, 2022, a total of 9,257 fourth doses have been administered among Windsor and Essex County residents since December 2021 (**Figure 12**).

Figure 12: Cumulative Fourth Doses Administered Among Windsor and Essex County Residents over time: April 19, 2022

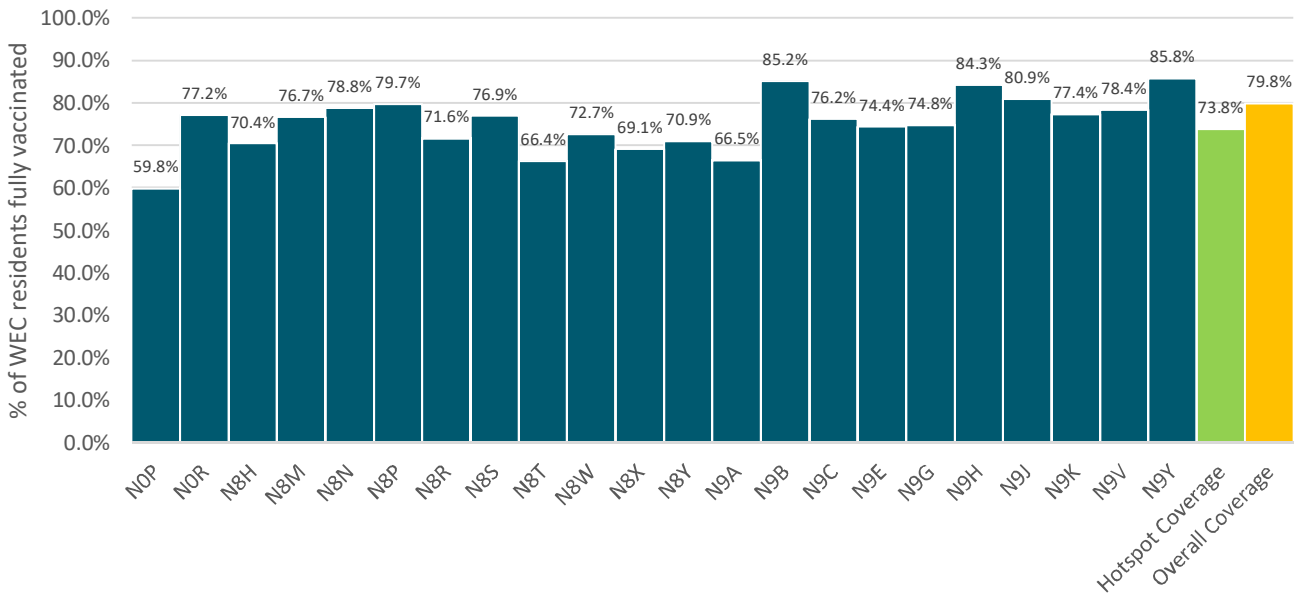


Source: Vaccine administration, Ontario Ministry of Health, IntelliHeath COVaxON. Data extracted on: April 19, 2022.

Fully Vaccinated Coverage Rate by Forward Sortation Area (FSA)

The overall fully vaccinated coverage rate is 79.8% and the coverage rate for those fully vaccinated is 73.8% among the hotspot FSAs. Eight FSAs have a coverage rate that is lower than the overall coverage among hotspot FSAs. Among these, FSA NOP (59.8%), N8T (66.4%) and N9A (66.5%) have the lowest coverage rates in Windsor and Essex County (**Figure 13**).

Figure 13: COVID-19 Fully Vaccinated Coverage Rate by Forward Sortation Area in Windsor and Essex County: April 19, 2022



Note: Coverage rates by FSA include all Windsor and Essex County residents including children 0 to 4 years of age who are not eligible to receive the vaccine

Source: Vaccine administration, Ontario Ministry of Health, IntelliHeath COVaxON. Data extracted on: April 19, 2022

For more information on local COVID-19 vaccine statistics, please visit:

<https://www.wechu.org/cv/vaccination-stats>