

Windsor-Essex County COVID-19 Weekly Epidemiologic Update

December 16, 2021

Data Highlights (week of December 6 - 12, 2021)

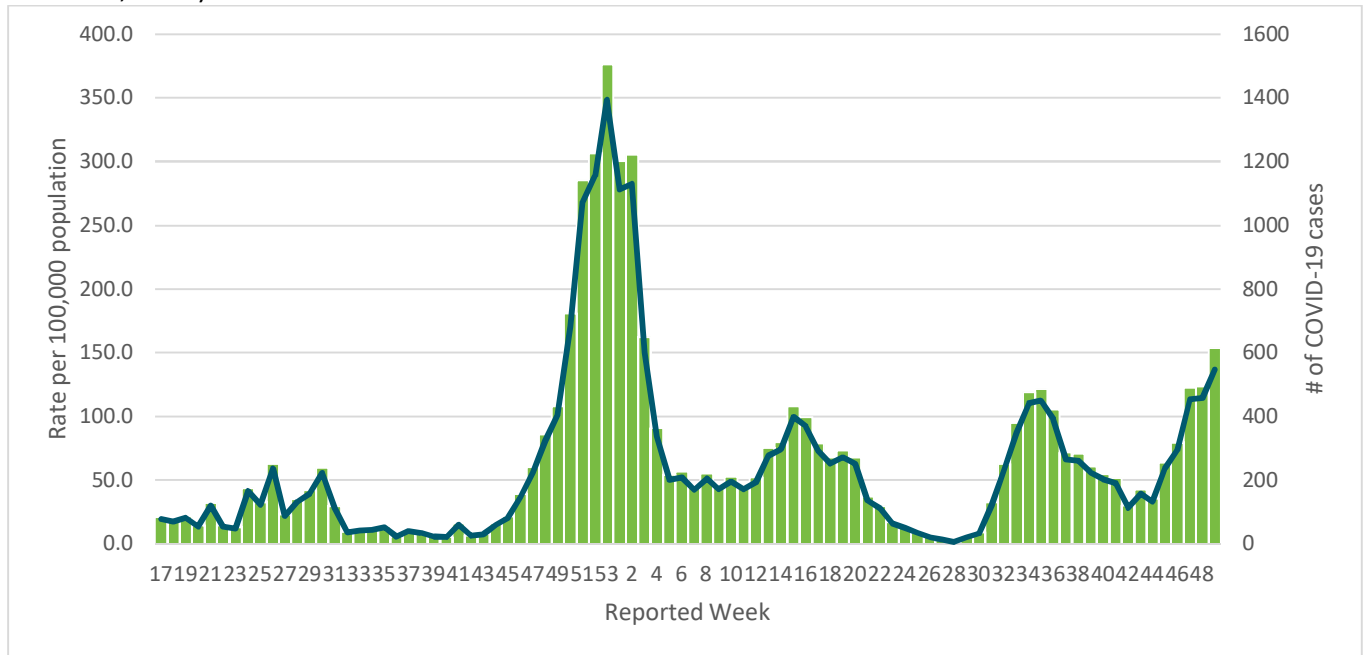
- 22,884 cases reported and 7-day moving average of 86.7 cases per 100,000 population
- For the week of December 6 – 12, 2021 the case rate is 137 per 100,000 individuals, an increase of 27.8 compared to the previous week.
- Case rate is 2.37 times higher than the Southwest region (57.8 cases per 100,000), and 2.26 times higher than Ontario (60.5 cases per 100,000). Windsor-Essex has the fourth highest case rate in Ontario.
- Increase of 0.1% in percent positivity was observed this week, as it slightly increased from 6.5% (November 21 - 27, 2021) to 6.6% (November 28 – December 4, 2021).
- Highest number of cases (22%) were seen among 0-19 year olds in the past two weeks.
- Leamington had the highest weekly case rate of 206.6 cases per 100,000 population, followed by Tecumseh (178.7 cases per 100,000) and Amherstburg (111.9 cases per 100,000 population).

COVID-19 Cases in Windsor-Essex County

Trends

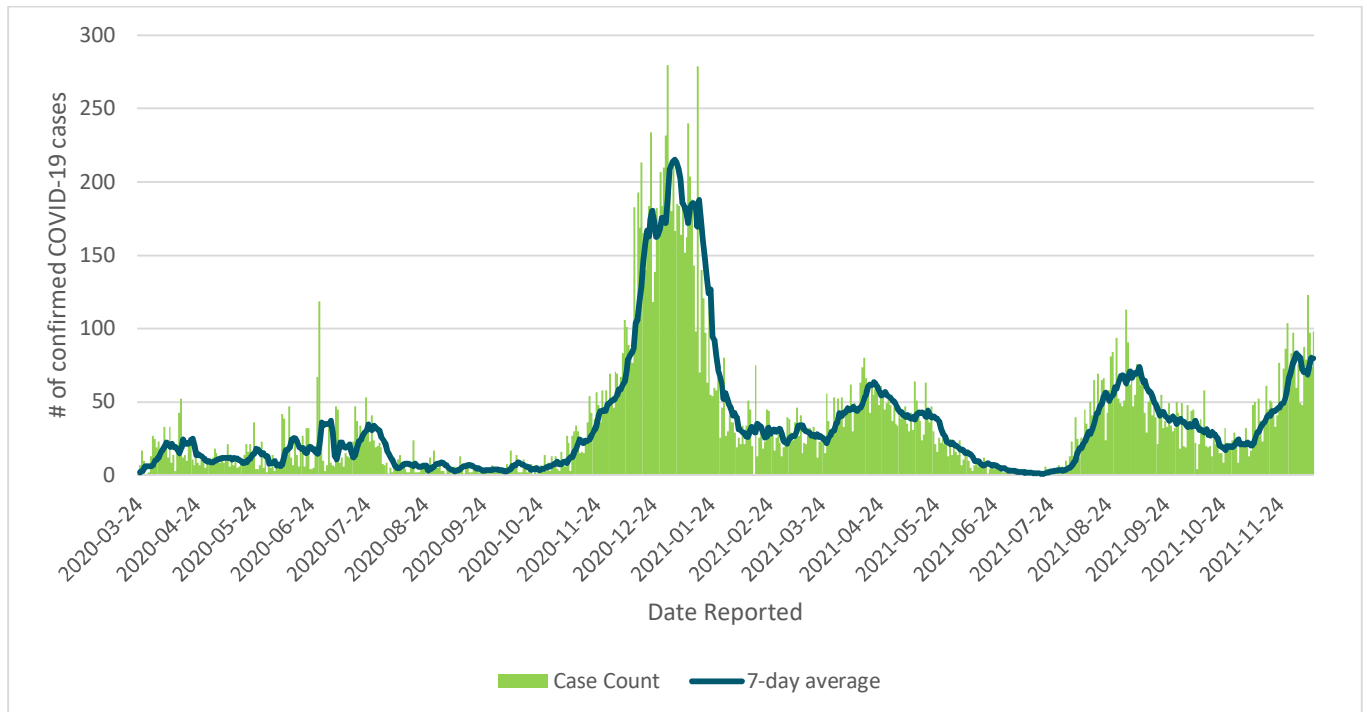
Up until December 12, the health unit reported 22,884 confirmed cases of COVID-19. For the most completed week December 6 – December 12, 2021, the case rate was 142.3 cases per 100,000 population, which is higher than the previous week's rate (November 29 – December 5, 2021; 114.5 cases per 100,000 population; Figure 1). The current 7-day moving average of cases in WEC is 86.7 cases per 100,000 population.

Figure 1. Confirmed COVID-19 case rates in Windsor-Essex County by reported week: Week 17, 2020 to Week 49, 2021).



Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [15/Dec/2021] at 4:30 pm

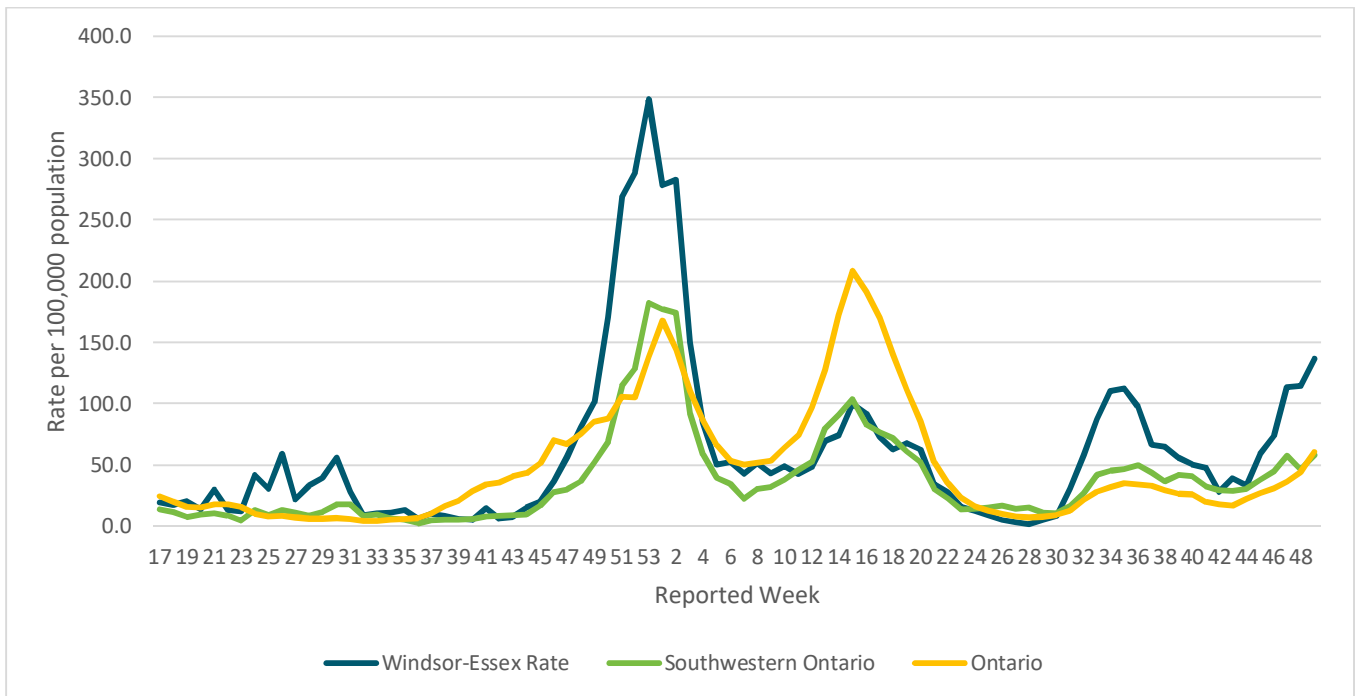
Figure 2. Confirmed COVID-19 cases in Windsor-Essex County by date: March 1, 2020 to December 12, 2021).



Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [15/Dec/2021] at 4:30 pm

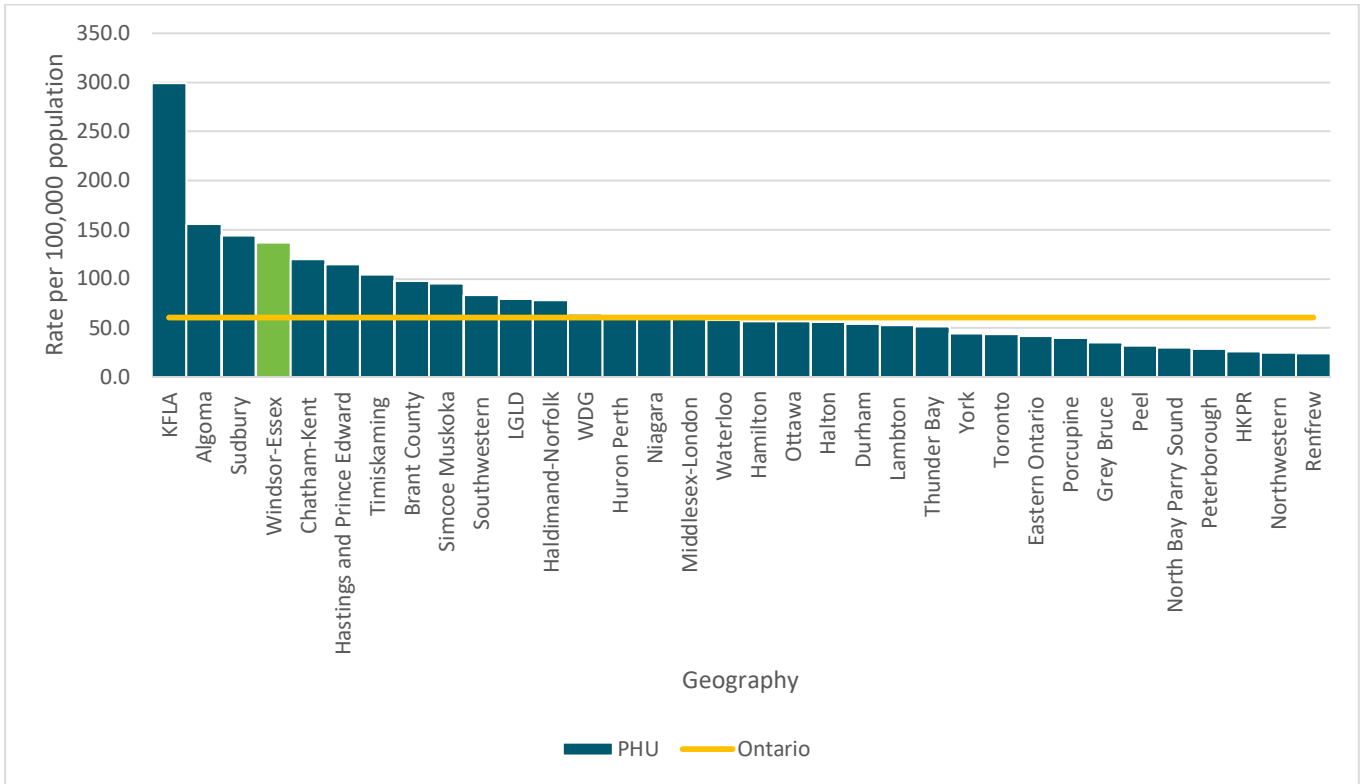
During the past week (December 6 - 12, 2021), Windsor had a case rate of 137 cases per 100,000, which was 2.37 time higher than the Southwest regions (57.8 cases per 100,000) and 2.26 times higher than Ontario (60.5 cases per 100,000 in Ontario). As shown in Figure 3a, the case rate has been consistently increasing since November 8 (Week 44), and has shown a sharp increase compared to the previous week. Compared to other health units in Ontario, Windsor-Essex has the fourth highest case rate for the most completed week (Figure 3b). Although our rates have increased, similar increases can be observed across the province.

Figure 3a. Weekly COVID-19 case rates in Ontario: March 1, 2020 to December 12, 2021.



Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [15/Dec/2021] at 6:30 pm

Figure 3b. Weekly COVID-19 case rates across health units in Ontario: December 6 - 12, 2021.

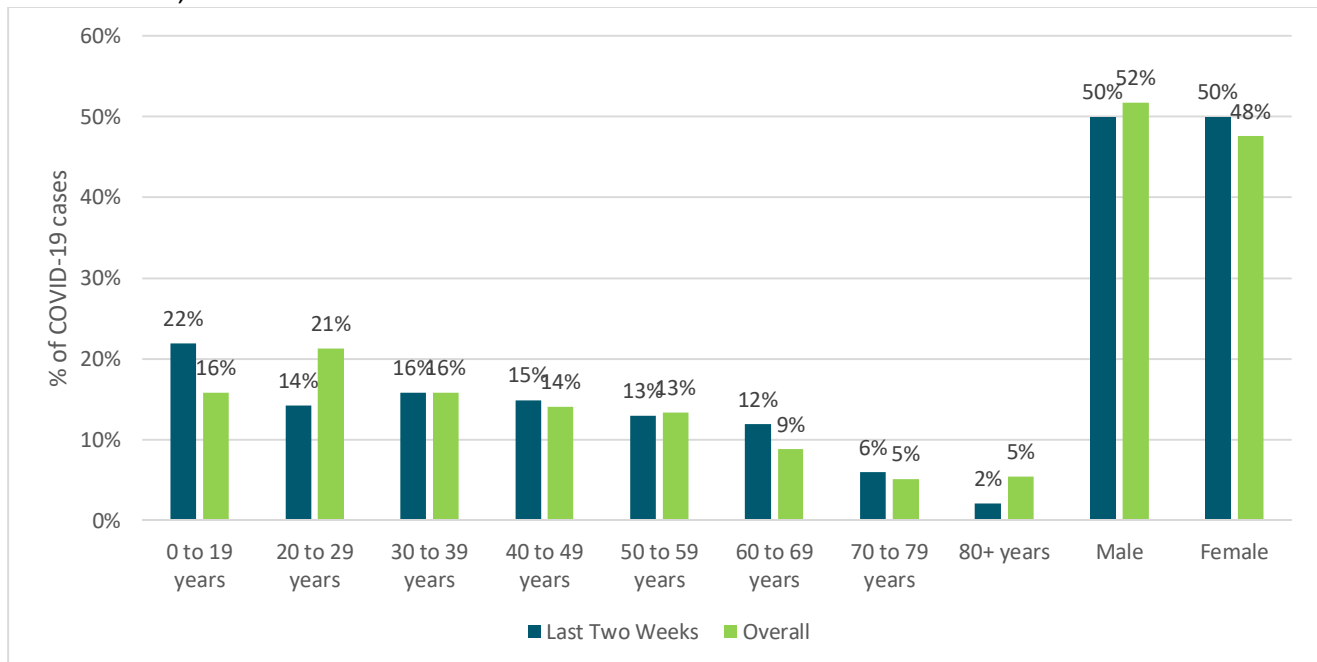


Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [15/Dec/2021] at 7:00 pm

Age and Sex

Overall, approximately 48% of the cases have been among females and 52% among males. In the past two weeks, a relatively higher number of cases were reported among 0-19 year olds. Compared to the overall cases, a relatively lower number of cases were observed for the 20-29 year olds and a higher number of cases were observed for 60-69 year olds during the past two weeks (Figure 4). From the onset of the pandemic locally (March 1, 2020 to December 12, 2021), only 16% of our cases have been in the 0-19 age group. Higher number of cases in the 0-19 age group can be attributed to current school outbreaks. Increasing vaccination coverage rates might explain the decrease observed among the 20-29 year olds.

Figure 4. Distribution of confirmed COVID-19 cases by age and sex by reported date: March 1, 2020 to December 12, 2021

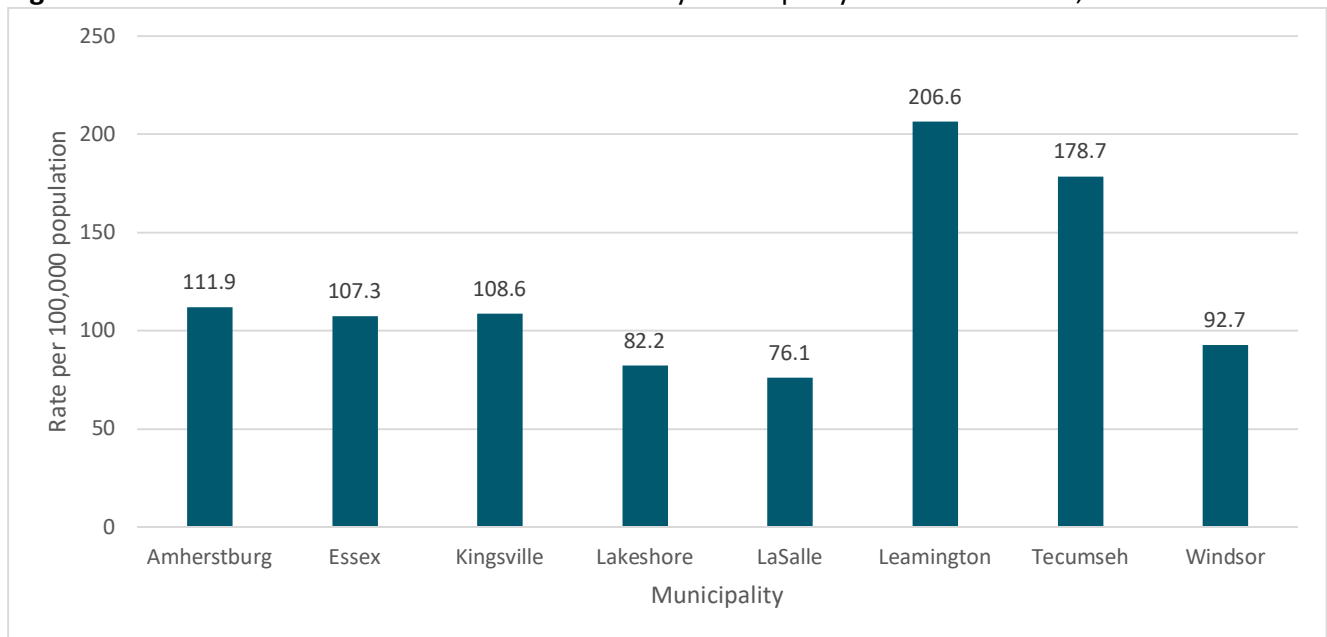


Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [15/Dec/2021] at 4:30 pm

Municipal Distribution

In the most recent completed week (December 6 - 12, 2021), Leamington had the highest case rates (206.6 cases per 100,000 population), followed by Tecumseh (178.7 cases per 100,000 population) and Amherstburg (111.9 cases per 100,000 population). Compared to the previous week (November 29 – December 5, 2021), a significant increase is noted across all municipalities except LaSalle which saw a slight decrease. This increase is consistent with increasing number of school and workplace outbreaks across the region.

Figure 5. Distribution of confirmed COVID-19 cases by municipality: December 6 - 12, 2021

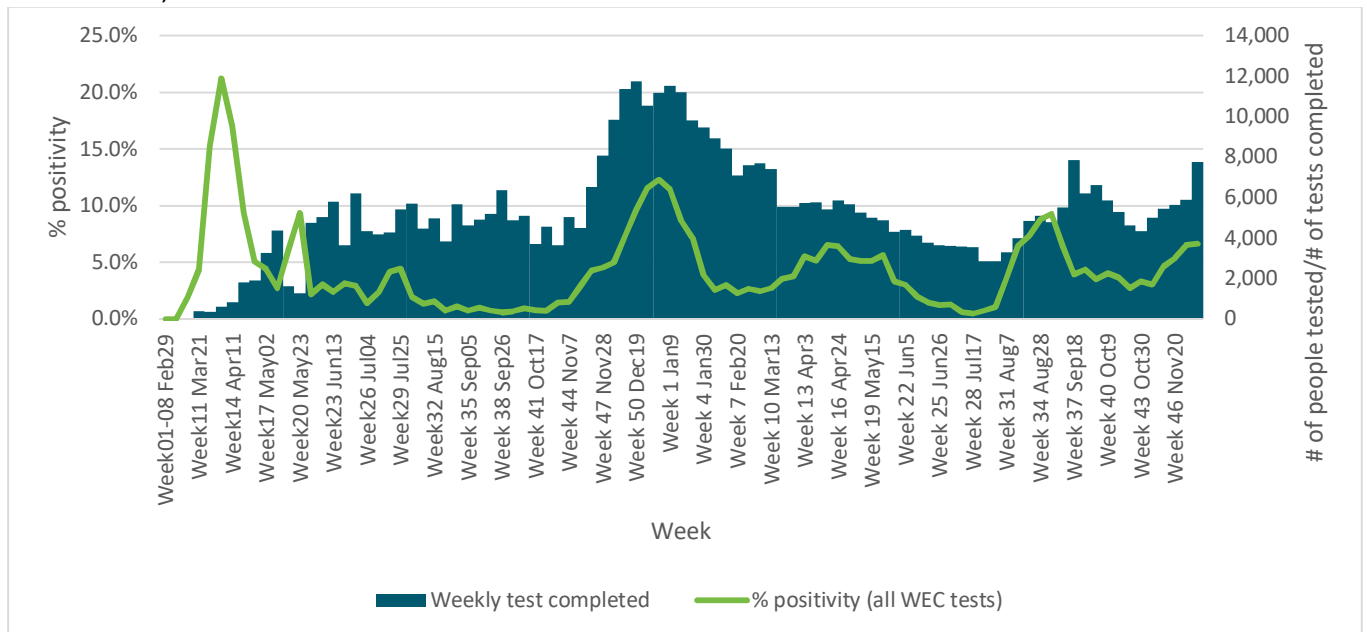


Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [15/Dec/2021] at 4:30 pm

Percent Positivity

The percent positivity for the most recent completed week, November 28 – December 4, is 6.6%, an increase of 0.1% compared to the previous week (6.5%; November 21 - 27, 2021). Compared to other health units in the province, Windsor-Essex has the fifth highest seven day average of percent positivity.

Figure 6. Percent positivity of tests conducted in Windsor-Essex County for COVID-19: February 29 to December 4, 2021

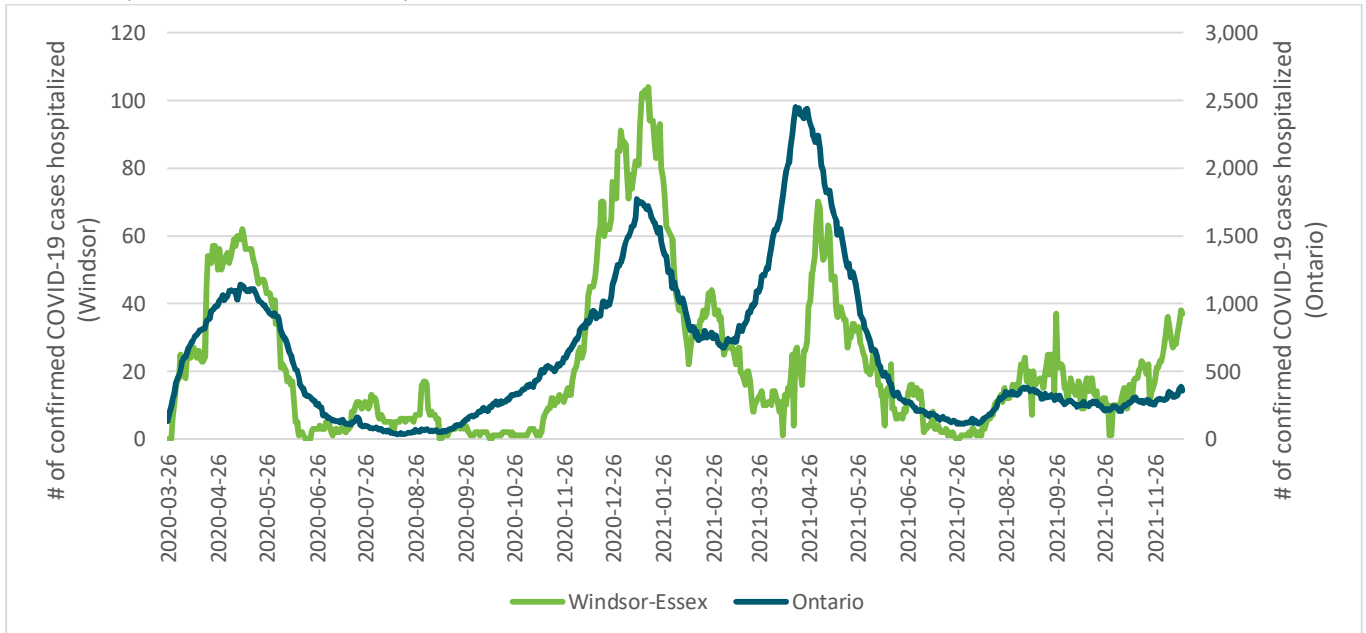


Source: COVID-19 Testing Report, SAS Visual Analytics Hub. Data extracted on December 15, 2021

Hospitalization and ICU Admissions

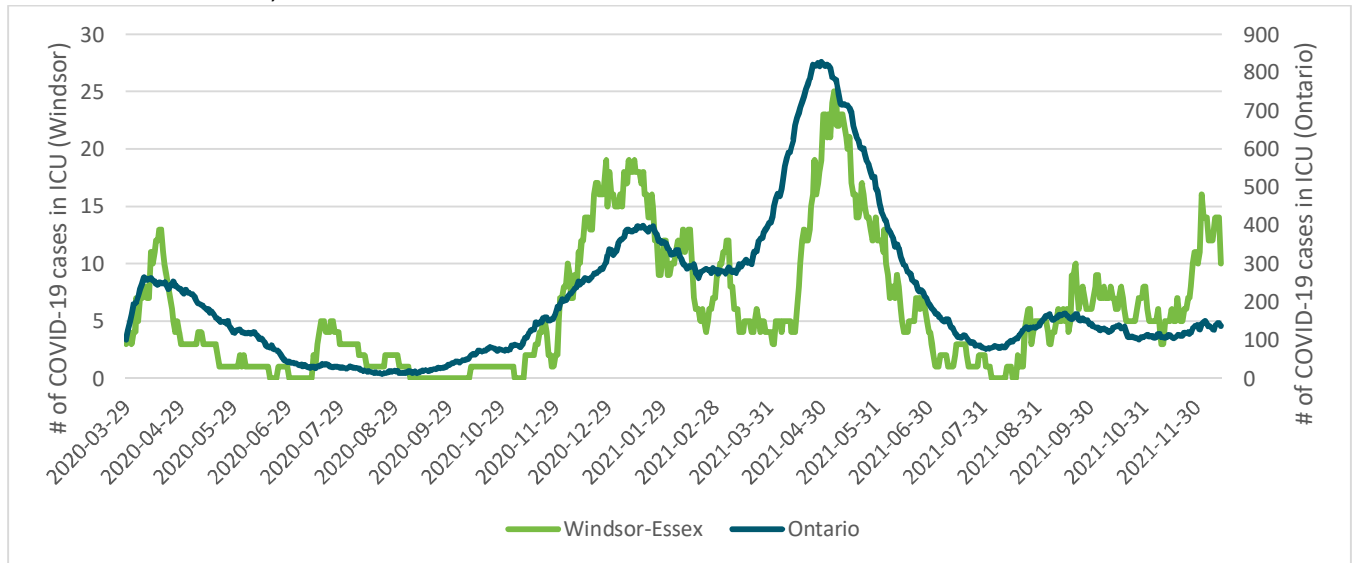
For the most recent week (December 6 - 12, 2021), there have been 36 new hospital admissions compared to 39 new admissions seen during the previous week (November 29 – December 5, 2021). There were 12 new COVID-19 patients were admitted to ICU for this week (December 6 - 12, 2021), which is identical to the number of admissions reported in the previous week. Compared to last week, Ontario reported a weekly decrease in the number of ICU cases from 979 to 952 (Figure 8).

Figure 7. Confirmed COVID-19 case in-patient hospitalizations in Ontario and Windsor-Essex County: March 29, 2020 – December 12, 2021



Source: COVID-19 Regional Hospitals Report, SAS Visual Analytics Hub. Data extracted on December 15, 2021

Figure 8. Confirmed COVID-19 case ICU hospitalizations in Ontario and Windsor-Essex County: March 26, 2020 – December 12, 2021

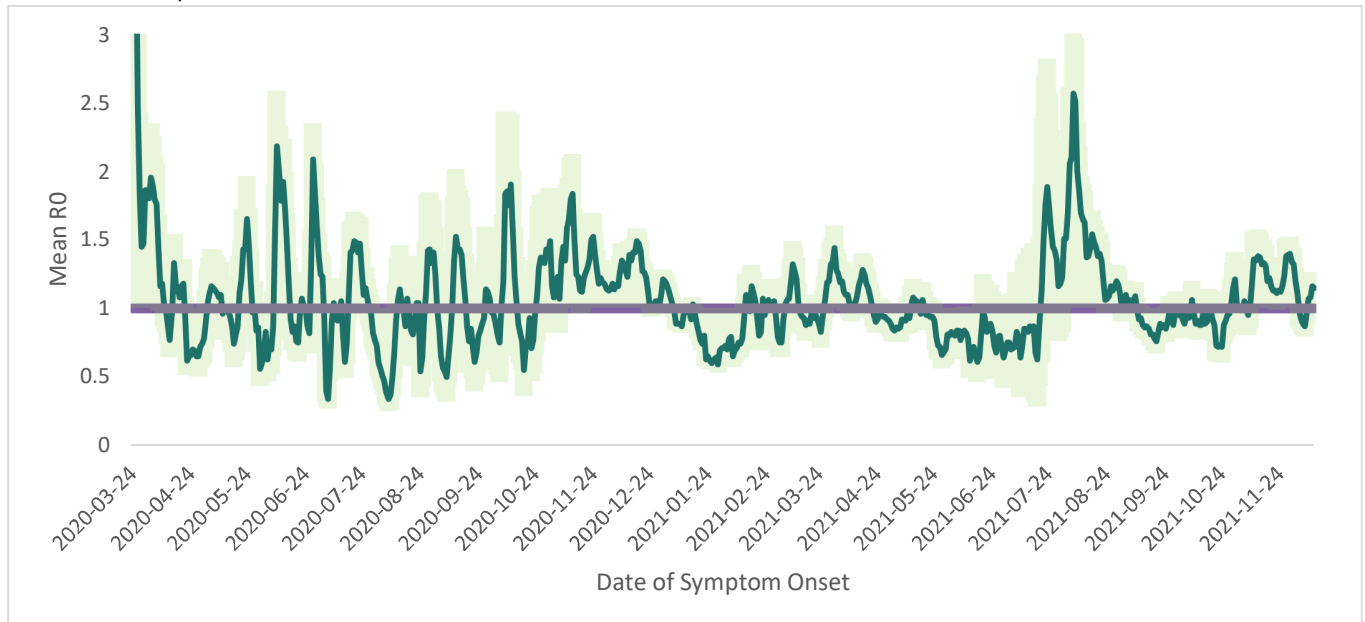


Source: COVID-19 Regional Hospitals Report, SAS Visual Analytics Hub. Data extracted on December 15, 2021

Effective Reproductive Number (Rt) for COVID-19

Compared to the previous week, the reproductive number for this week (December 6 – 12, 2021) has shown a steady increase from 0.89 to 1.15. During the current week, the highest reproductive number of 1.15 was observed on December 12, 2021. Given the increasing number of school and workplace outbreaks, a further increase in reproductive number would not be surprising.

Figure 9. Median effective reproductive number for COVID-19 in Windsor-Essex County: March 25, 2020 – December 12, 2021



Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [15/Dec/2021] at 4:30 pm.

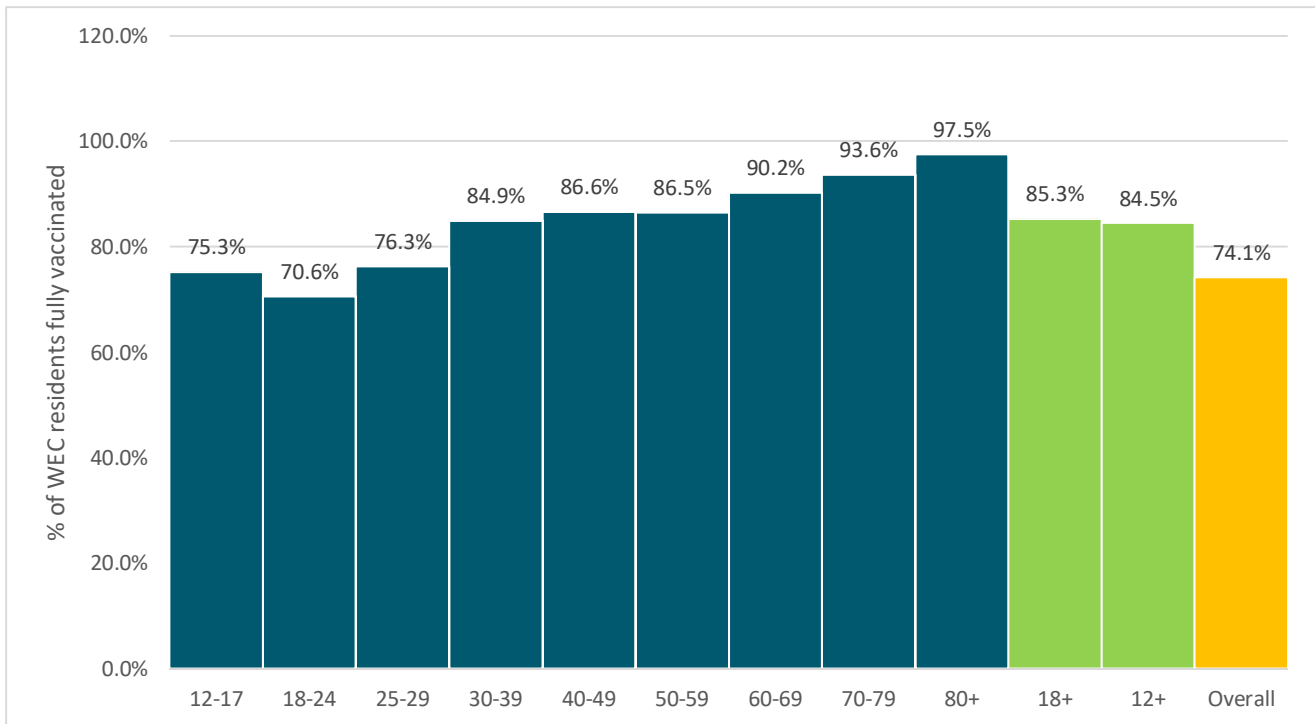
For more information on local COVID-19 statistics, please visit: <https://www.wechu.org/cv/local-updates>

COVID-19 Vaccination Status in Windsor-Essex County

Fully Vaccinated Coverage Rates by Age Group

Over 18,781 doses were administered to Windsor-Essex County residents in week 50 (December 1 to December 7) compared to 15611 doses in week 49 (November 24 to November 30). This represents a 20.3% increase between the two weeks. Overall, the 18-24 age group has the lowest coverage rate for two vaccines (70.6%), followed by those in the 12-17 age group (75.3%) and 25-29 age group (76.3%) (Figure 10).

Figure 10. COVID-19 fully vaccinated coverage rate by age group in Windsor-Essex County: December 15, 2021

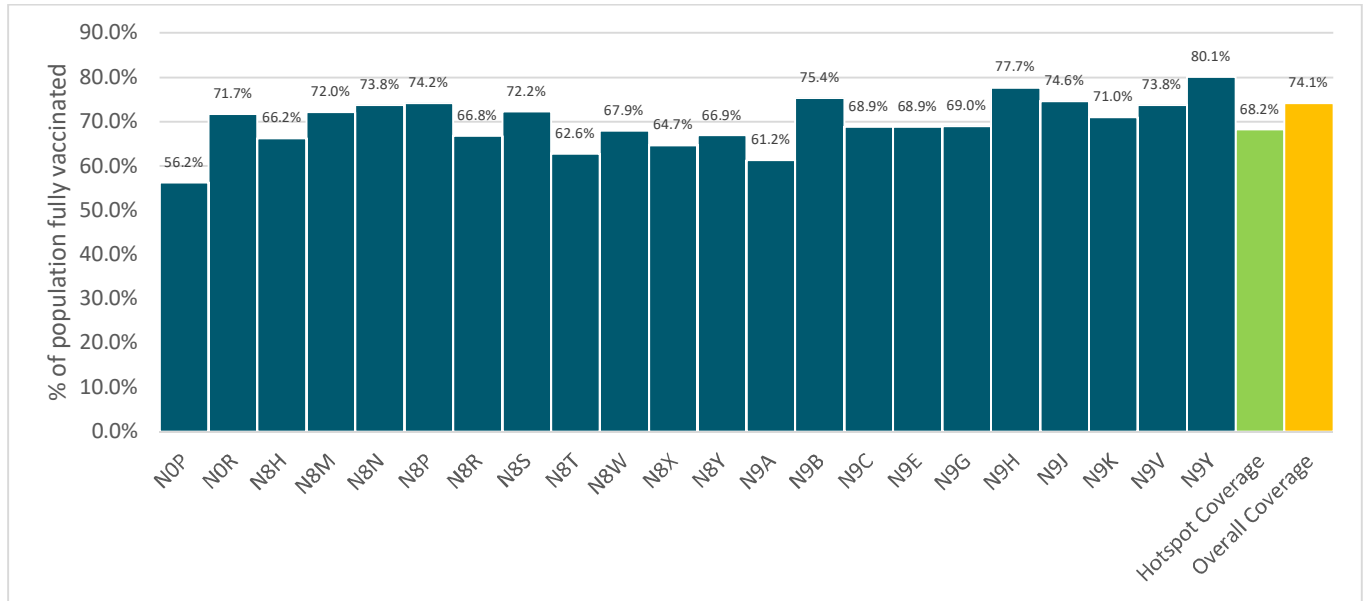


Source: Vaccine administration, Ontario Ministry of Health, IntelliHeath COVaxON. Data extracted on: December 15, 2021

Fully Vaccinated Coverage Rate by Forward Sortation Area (FSA)

The overall fully vaccinated coverage rate is 74.1% and the coverage rate for those fully vaccinated is 68.2% among the hotspot FSAs. Eight FSAs have a coverage rate that is lower than the overall coverage among hotspot FSAs. Among these, FSA NOP (56.2%), N9A (61.2%) and N8T (62.6%) have the lowest coverage rates in WEC. (Figure 11).

Figure 11. COVID-19 fully vaccinated coverage rate by Forward Sortation Area in Windsor-Essex County: December 15, 2021



Note: Coverage rates by FSA include all Windsor-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: December 15, 2021

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

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