COVID-19 Windsor and Essex County: March 20, 2020 to May 15, 2020

Purpose

• Providing an epidemiologic summary of COVID-19 activity in Windsor and Essex County (WEC) to date

Source

- Windsor-Essex County Health Unit, Infectious Disease Prevention (IDP) database, extracted by Windsor-Essex County Health Unit [2020/05/14].
- Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Windsor-Essex County Health Unit [2020/05/14].
- Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic Summary: COVID-19 in Ontario – January 15, 2020 to May 13, 2020). Toronto, ON: Queen's Printer for Ontario; 2020.

Highlights

- At the time of reporting, there are 751 confirmed cases of COVID-19 in WEC between March 20th and May 14th.
- Overall, cases of COVID-19 in WEC continue to decrease.
- The incident rate of COVID-19 in WEC is higher compared to Chatham-Kent, Lambton County and the overall rate in Ontario.
- Between May 5th and May 11th, approximately 3% of the tests on average returned as positive for COVID-19 when tested for COVID-19.
- Facility wide testing in 38 long-term care and retirement homes has indicated that 0.9% of residents and 0.4% of staff were asymptomatic and positive for COVID-19.
- The age of the cases range from 8 to 101 years with females accounting for approximately 57% of all cases compared to approximately 42% in males. One percent of cases had an unknown sex
 - Among females, 24% of all female cases were among those 80 years or older
 - Among males, 19% of all male cases were among those between 20 to 29 years.
- Approximately 63% of the cases reside in the City of Windsor.
- Currently, the majority of cases are due to close contacts with individuals that were positive for COVID-19.
- 28% of the confirmed COVID-19 cases are healthcare workers and of these 210 healthcare workers, 26% of HCW reported travelled to Michigan prior to becoming ill.
- Of the COVID-19 cases reporting a risk factor, 22% had a cardiovascular condition, 11% had diabetes and 10% had asthma.
- 37% of cases reported having either a chronic or underlying condition or being immunocompromised.
- Coughing 85% was the most commonly reported symptom among cases with COVID-19 reporting any symptoms followed by fatigue (63%), malaise (62%) and fever (61%).
- Approximately 27% of cases are still in self-isolation while 52% of cases have resolved.

- Approximately 73% of the deaths have occurred in individuals 80 years or older.
 - 63% of the deaths were in females and 37% in males.
- The overall case fatality rate in WEC is 8.3%. When stratified by long-term care and retirement homes, the case fatality rate within long-term care and retirement homes is 16.4%.
- The trajectory of the doubling rate for COVID-19, since the first reported case, in Windsor is more than five days.
- The day-over-day doubling time has been increasing in Windsor-Essex, Ontario and Canada with the Windsor-Essex doubling time generally higher compared to the province and country since the middle of April.
- The mean R₀ value is 0.86 indicating a decrease in community spread of COVID-19



COVID-19 *LIVE UPDATE*

May 15, 2020

FOR UP-TO-DATE CASE NUMBERS VISIT **wechu.org**

COVID-19 Epidemiological Summary

Content covered:

- Hospital Admissions based on syndromes
- Epidemic curves
 - By 1) Overall; 2) 3-day moving average; 3) Community vs. LTCH/RH
- Regional & provincial rates
- Percent positivity of COVID-19 tests
- Symptomatic vs. Asymptomatic COVID-19 cases in LTCH/RH
- Age & sex distribution
- Distribution by municipality
- Exposure history
- Travel History
- Healthcare worker status
- Top medical risk factors
- Symptoms
- Hospitalizations
- Outcomes
- Breakdown by deaths
- Doubling time
- Mean R0

Hospital Admissions Based on Syndromes (asthma, influenza-like-illness, pneumonia, sepsis or suspect COVID)



Epidemic Curve by Symptom Onset Date



Epidemic Curve by 3-Day Moving Average



Epidemic Curve by Community vs. LTCH/RH by Symptom Onset Date



Alternative Epidemic Curve by Community vs. LTCH/RH by Symptom Onset Date



Regional & Provincial Rates



Percent Positivity of People Tested for COVID-19

Total Tests —% of tests positive



Date

Symptomatic Vs. Asymptomatic Positives

2.5%



Age & Sex Distribution



Distribution of COVID-19 Cases by Municipality



Exposure History by Reported Date



COVID-19 Cases by Healthcare Worker



Top Medical Risk Factors



Underlying Health Conditions



Most Common Symptoms



Hospitalizations



Outcomes



Age & Sex Breakdown of COVID-19 Deaths



Case Fatality Rate



Doubling Time (Cumulative Comparison)



Doubling Time (Day over Day Comparison)



Mean R0



Date of Symptom Onset

Summary

- Case counts in Windsor-Essex continues to decline even with increased testing
- 2% of tests were positive for COVID-19 in the past 7 days
- Case-fatality rates are higher in long-term care and retirement settings compared to the community
- Doubling time of cases is generally similar to the province and the country
- R₀ < 1 signaling a decline in community spread