

COVID-19 Windsor and Essex County: March 20, 2020 to May 29, 2020

Purpose

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

Source

- Windsor-Essex County Health Unit (WECHU), Infectious Disease Prevention (IDP) database, extracted by Windsor-Essex County Health Unit [2020/05/28].
- Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Windsor-Essex County Health Unit [2020/05/28].
- Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic Summary: COVID-19 in Ontario – January 15, 2020 to May 27, 2020). Toronto, ON: Queen's Printer for Ontario; 2020.

Highlights

- At the time of reporting, there are 927 confirmed cases of COVID-19 in WEC between March 20th and May 28th.
- Based on the 3-day moving average by symptom onset, cases in WEC continue to decrease from the peak seen in March and April.
- Outbreaks in long-term care and retirement homes peaked on May 14th, 2020.
- Windsor and Essex County has the 3rd highest incidence rate in the province at 217 cases per 100,000 population.
 - This incidence rate is higher compared to the overall provincial rate of 181 cases per 100,000 population.
- The overall percent positivity since testing started in March is 5.4%
- Since early May, 100% of the positive cases reported to the WECHU has been investigated within one day of reporting.
- Between May 8th to May 28th, 63% of the cases reported were among males and 37% were among females
 - 52% of the cases during this time period were among adults 20 to 39 years of age
- Approximately 55% of the cases reside in the City of Windsor, 12% in Kingsville and another 19% in Leamington.
 - There has been an increase in cases reported from Leamington.
- Through the WECHU's case management and contact tracing, currently, the majority of cases identified are due to close contacts with individuals that were positive for COVID-19.
- Approximately 30% of current cases have a known chronic condition, an underlying condition or are immunocompromised.
- Coughing was the most commonly reported symptom among cases with COVID-19 reporting any symptoms followed by fever, fatigue and malaise.

- COVID-19 cases that are hospitalized have decreased in the past week alongside COVID-19 cases in the ICU
- Approximately 25% of cases are still in self-isolation while 53% of cases have resolved.
- The overall case fatality rate in WEC is 6.8%, lower than the province (8.1%).
- 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 trending positively in Windsor-Essex, Ontario and Canada.
- The mean R_0 (effective) value is 0.96 but has fluctuated over the course of the week.



COVID-19 *LIVE UPDATE*

May 29, 2020

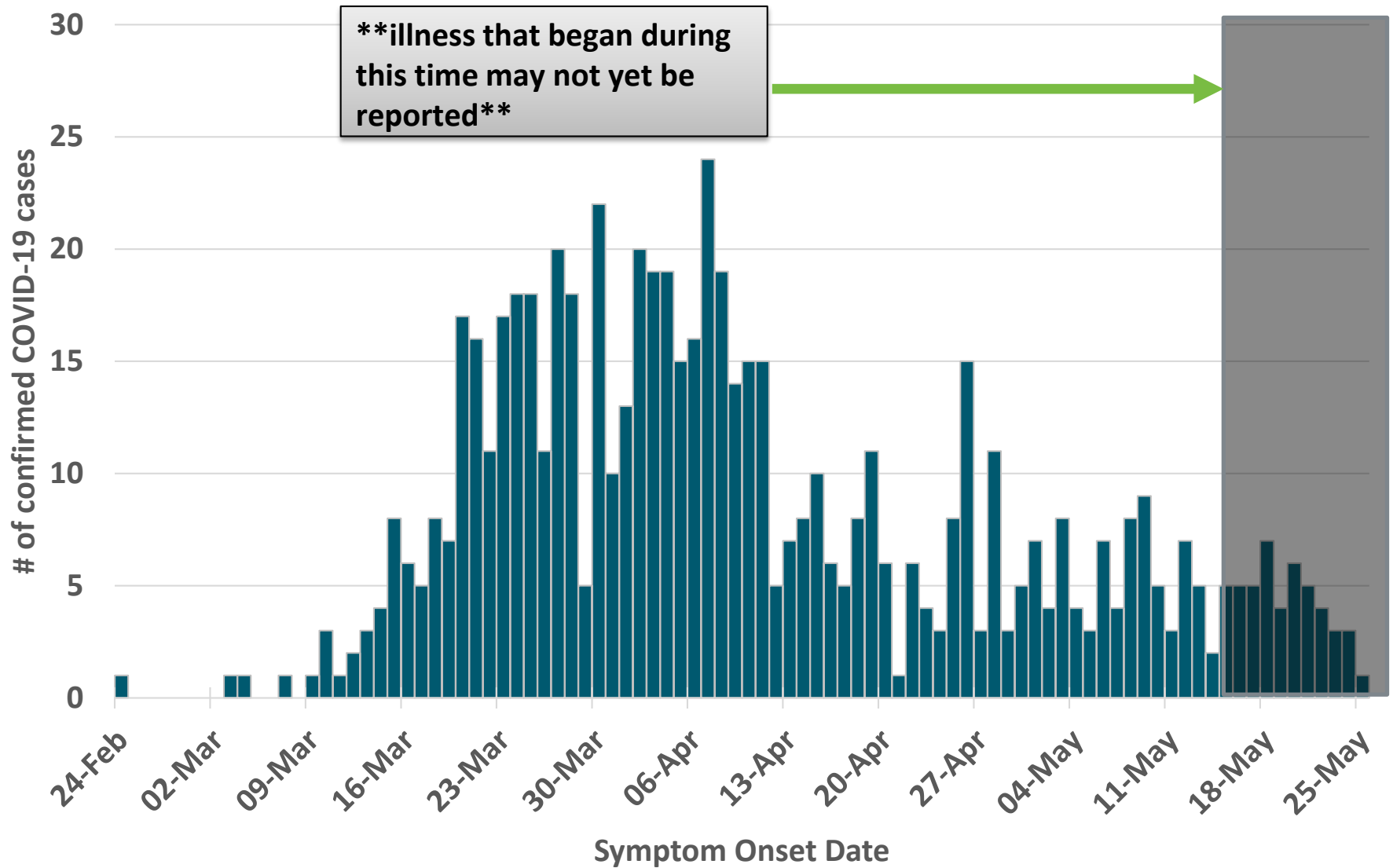
FOR UP-TO-DATE
CASE NUMBERS
VISIT
wechu.org

COVID-19 Epidemiological Summary

Content covered:

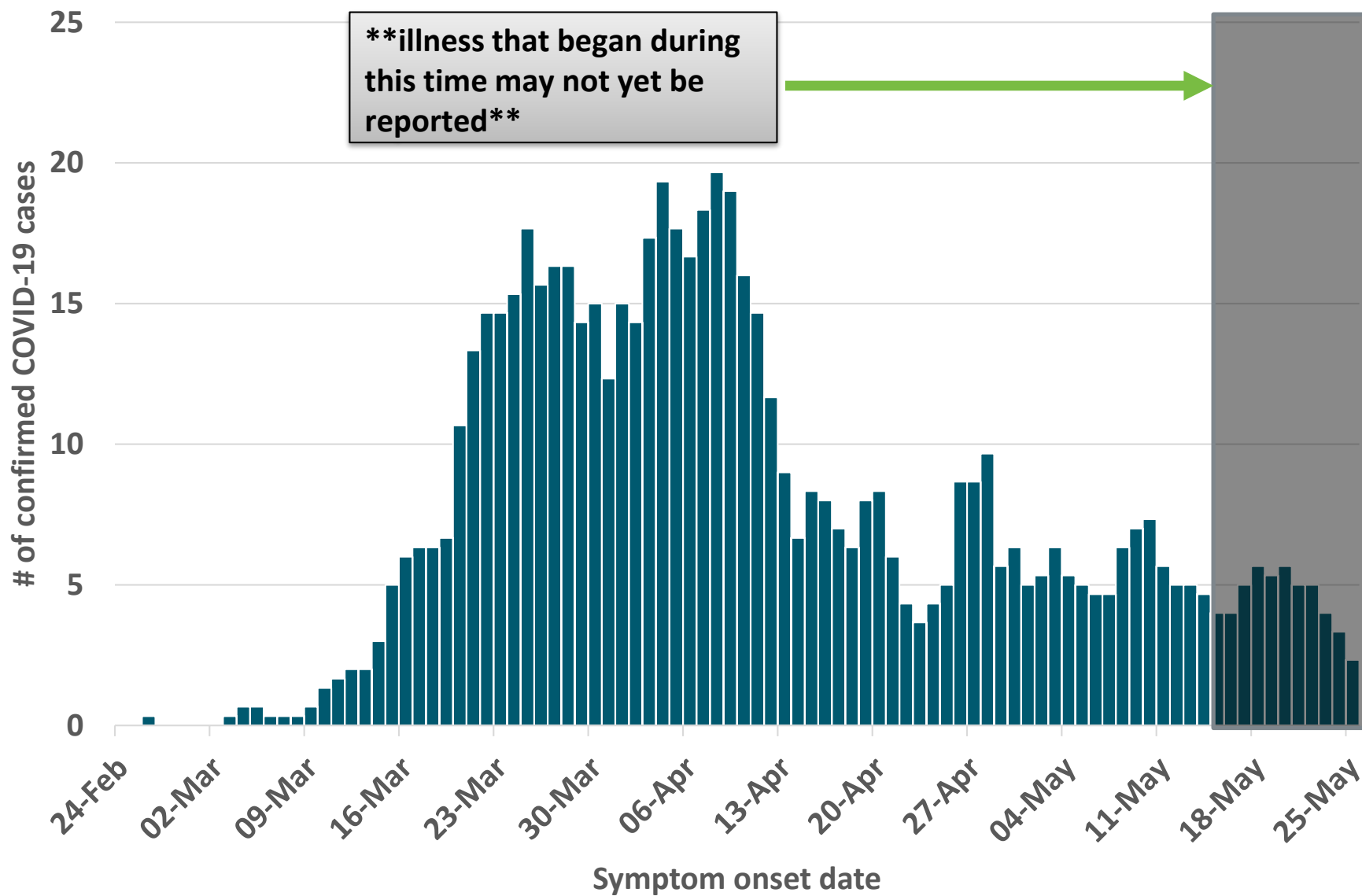
- Epidemic curves
- Regional & provincial rates
- Percent positivity of COVID-19 tests
- Positive test turnaround time
- Case investigation time
- Age & sex distribution
- Distribution by municipality
- Exposure history
- Healthcare worker status
- Underlying conditions
- Top symptoms
- Hospitalizations & ICU
- Healthcare system capacity
- Current outcomes
- Breakdown by deaths
- Doubling time
- Mean R_0 (effective)

Epidemic Curve by Symptom Onset Date



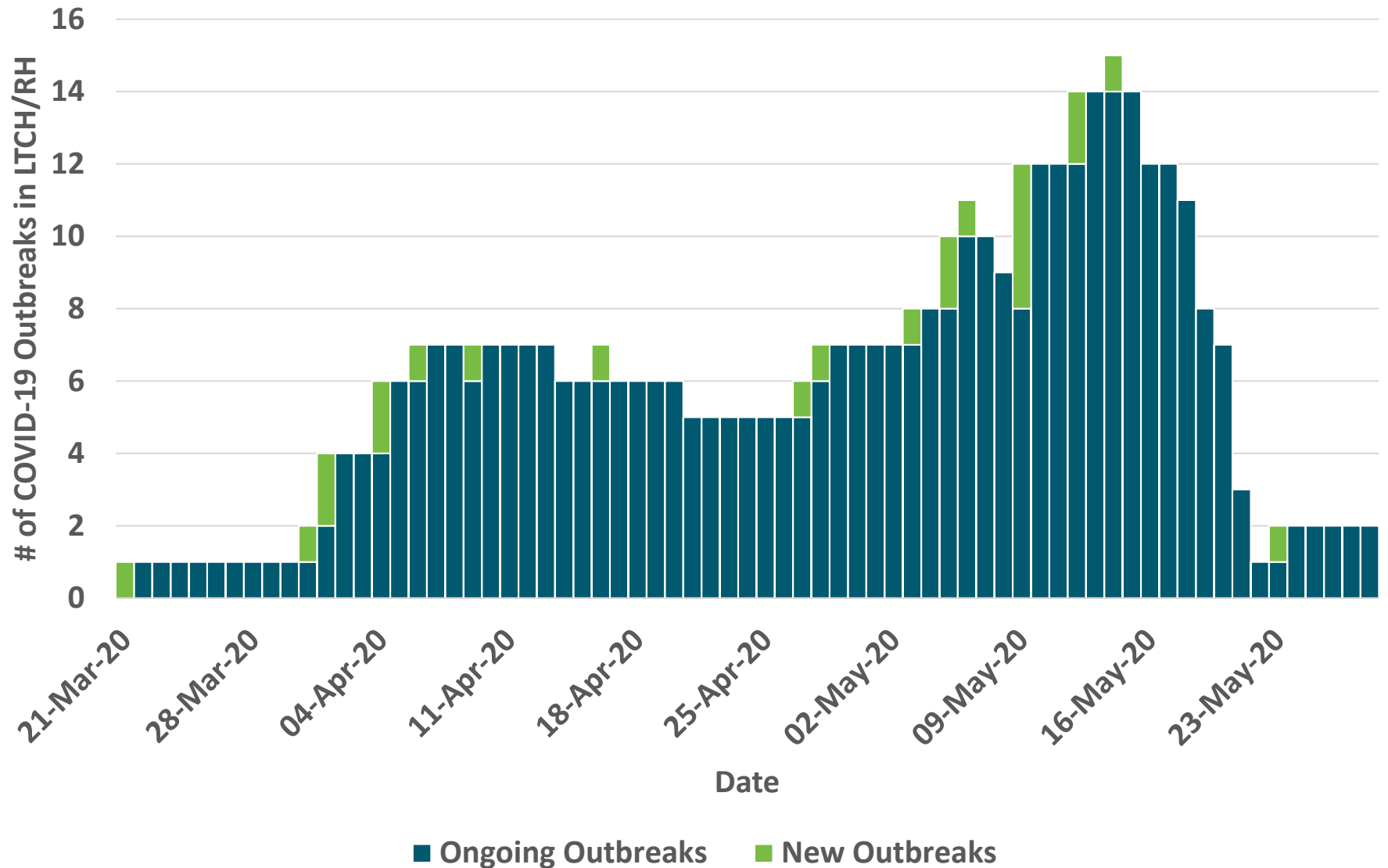
2020-06-02

Epidemic Curve by 3-Day Moving Average by Symptom Onset

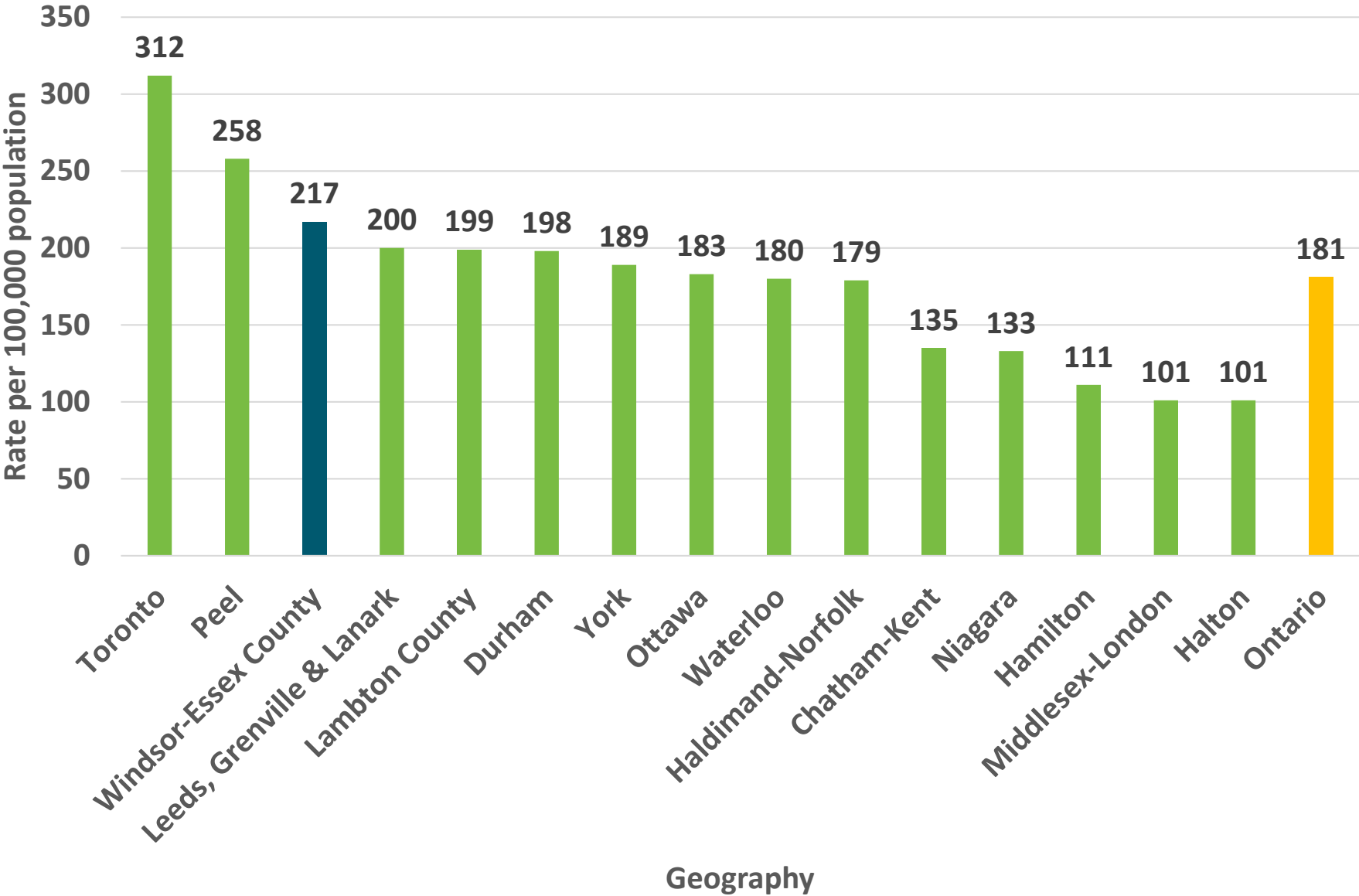


2020-06-02

COVID-19 Outbreaks in Long-Term Care and Retirement Homes

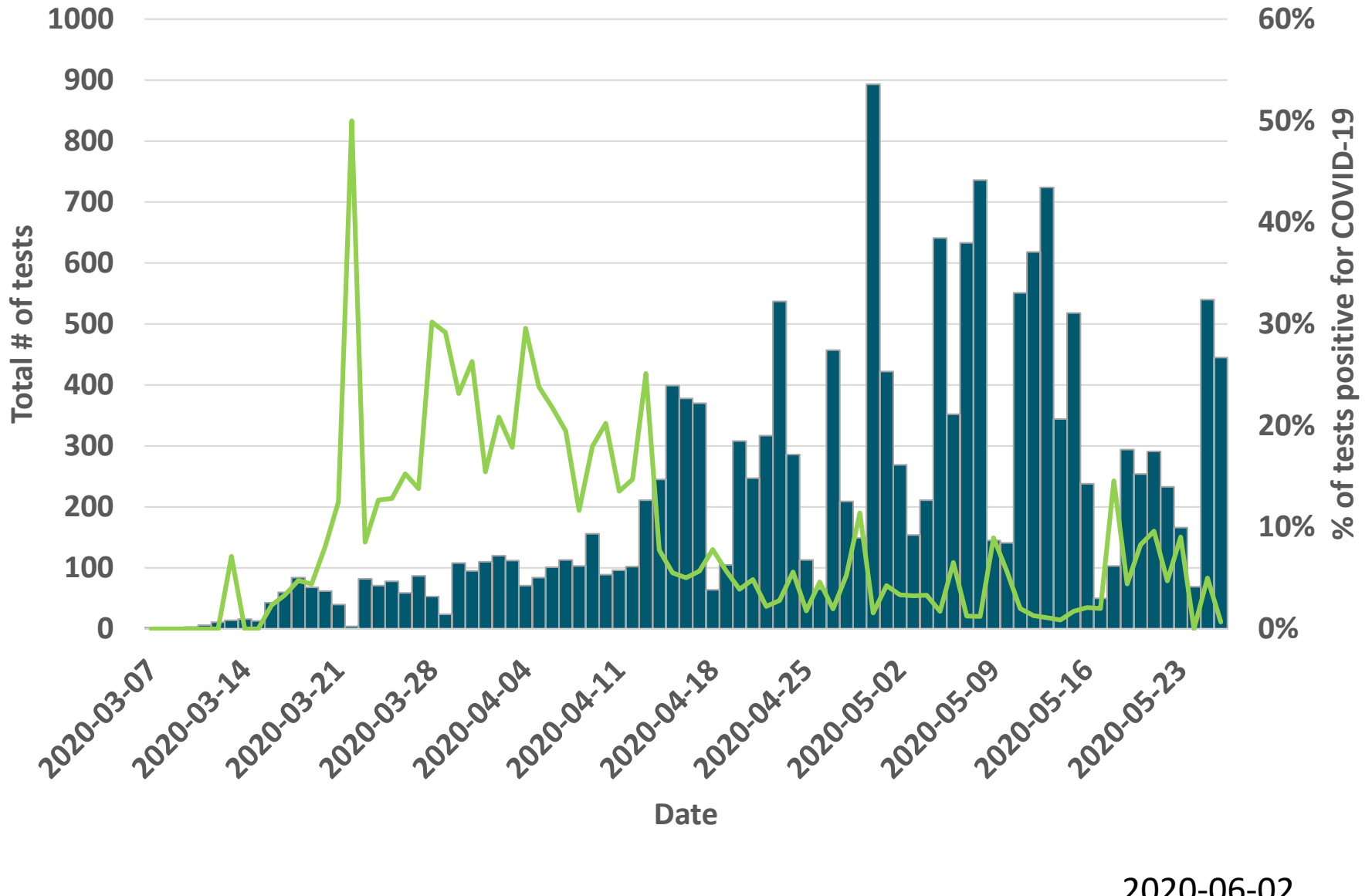


Regional & Provincial Rates

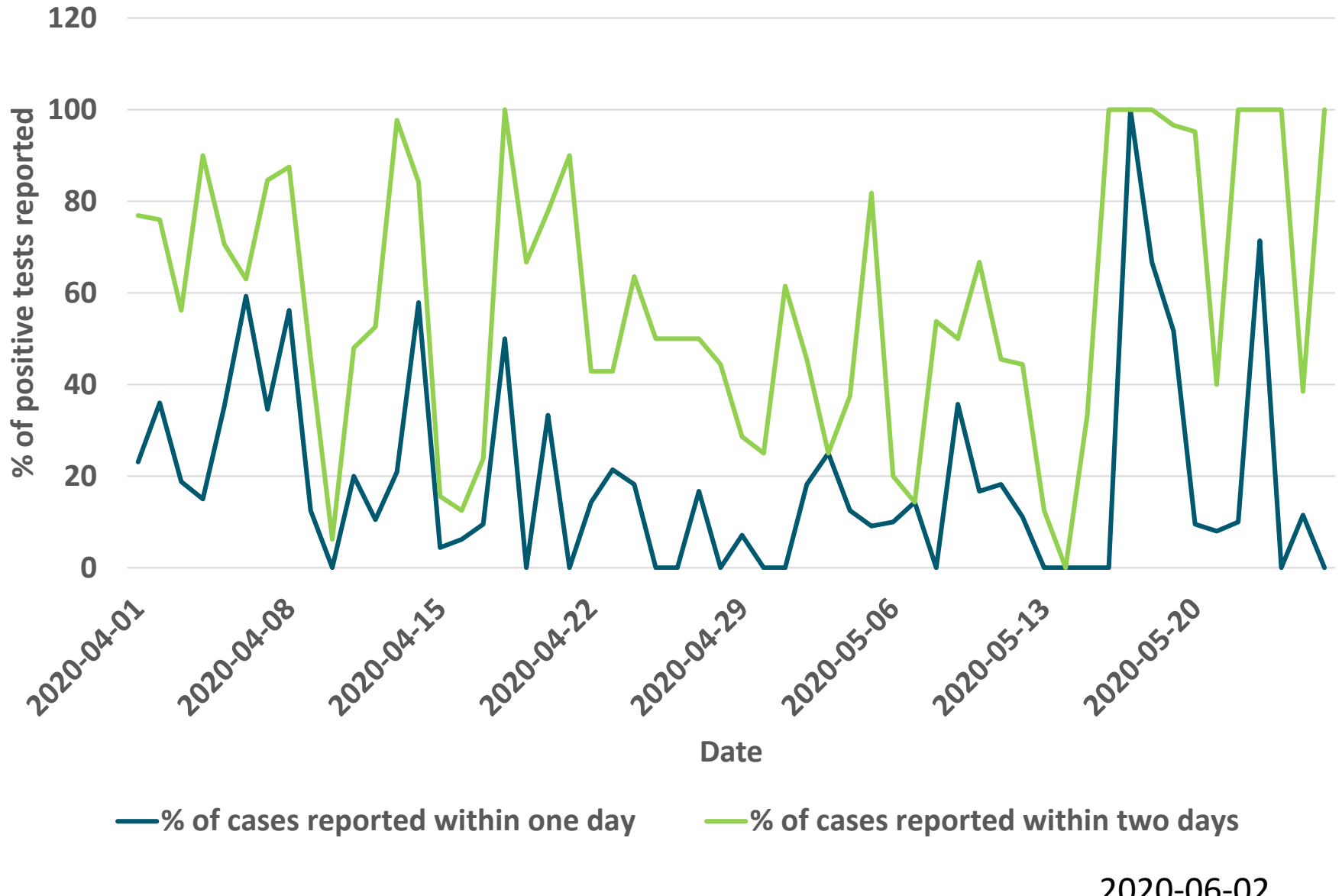


Percent Positivity of People Tested for COVID-19

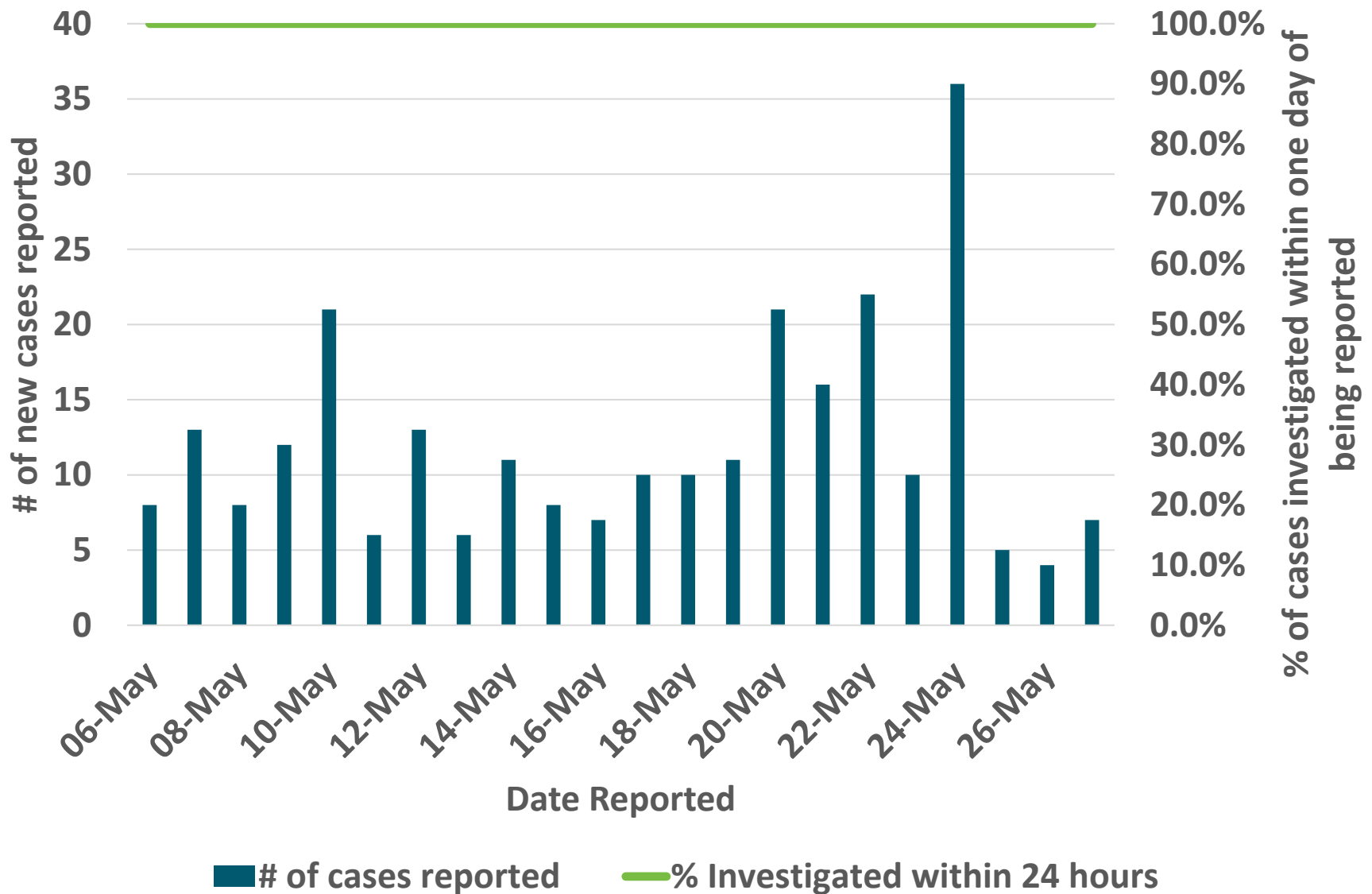
■ Total Tests — % of tests positive



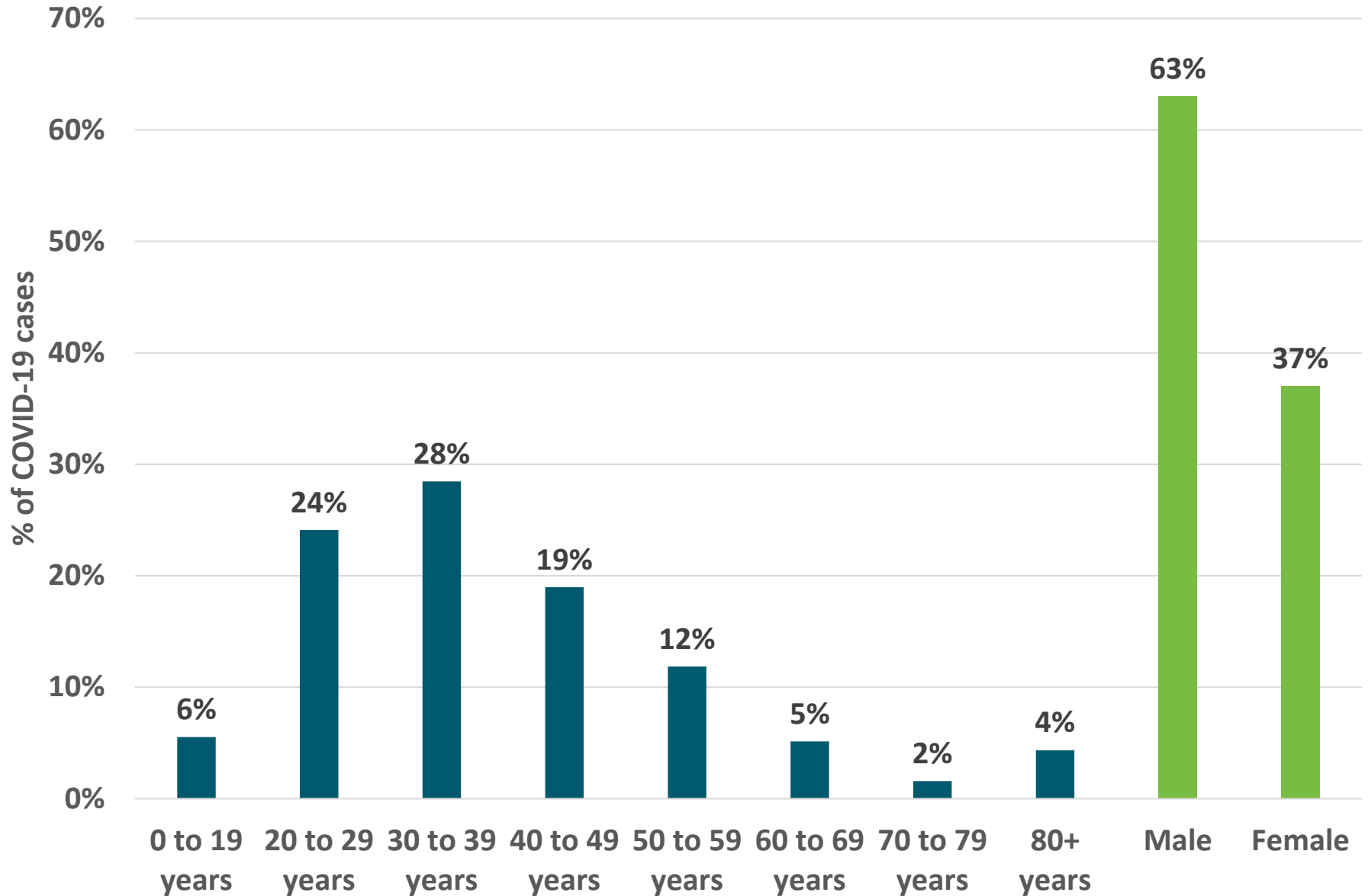
Percentage of positive tests reported in one and two days of test date



Percent of New Cases Investigated Within 24 Hours of Reported Date

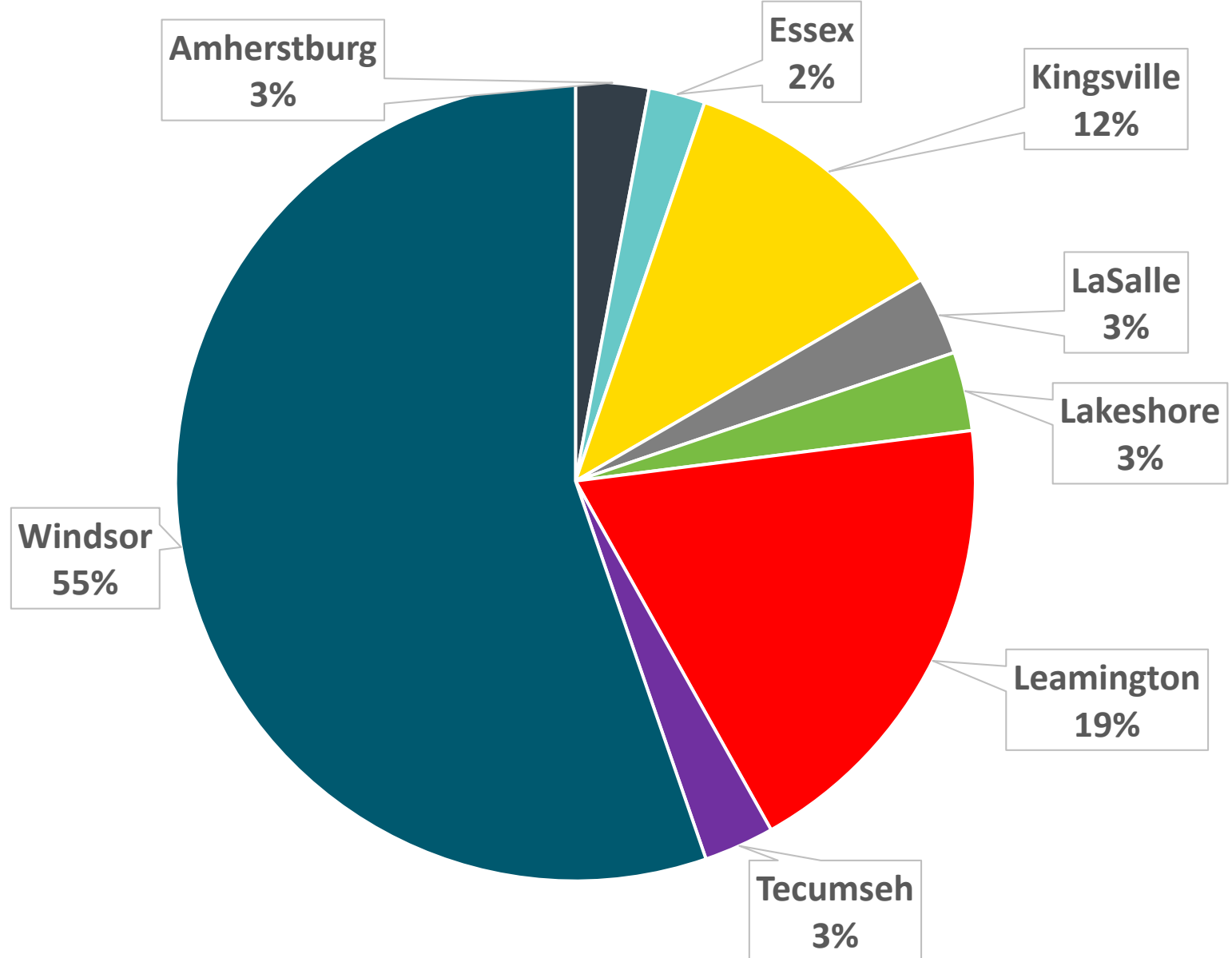


Age & Sex Distribution (May 8 to May 28)

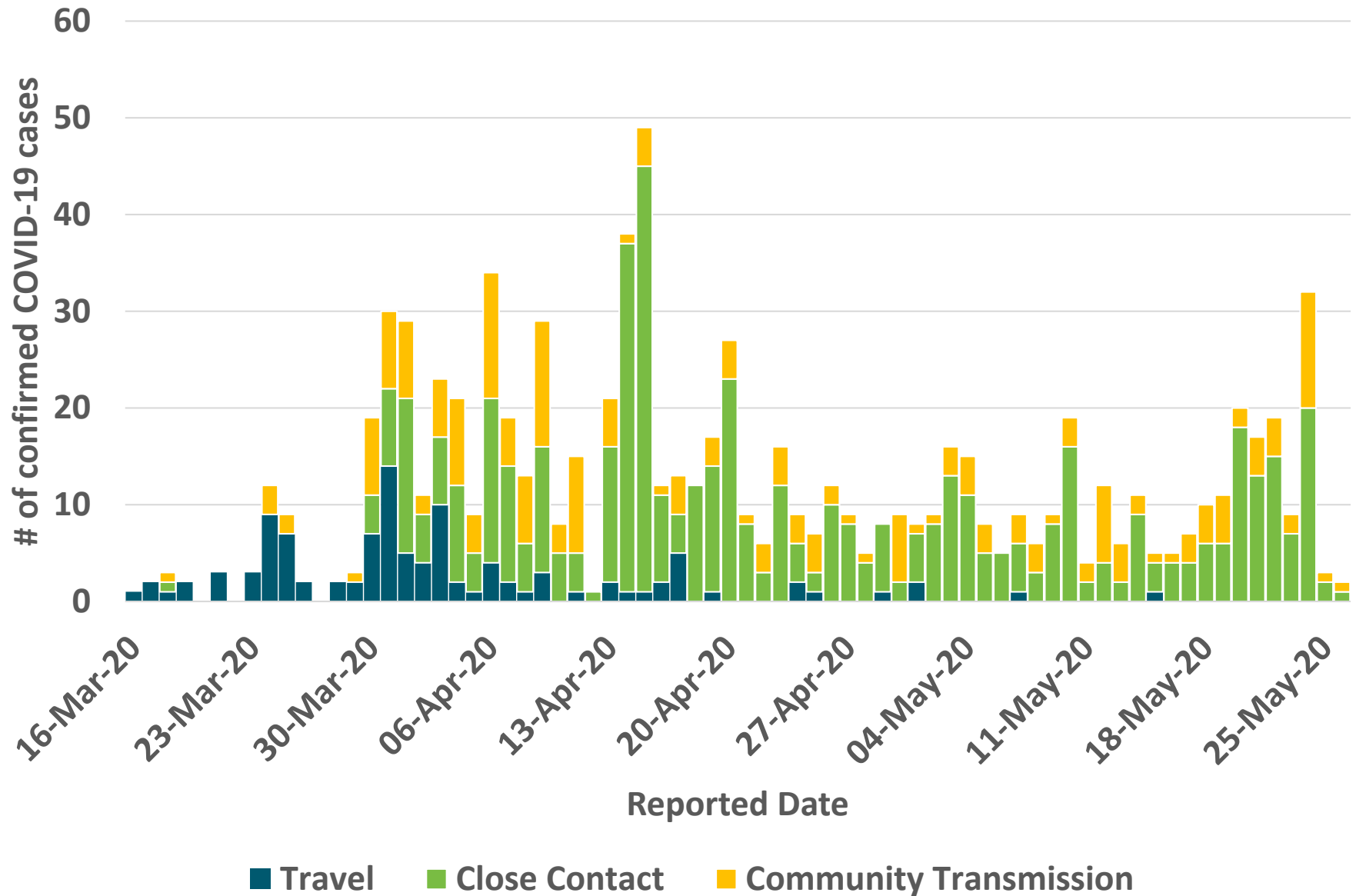


2020-06-02

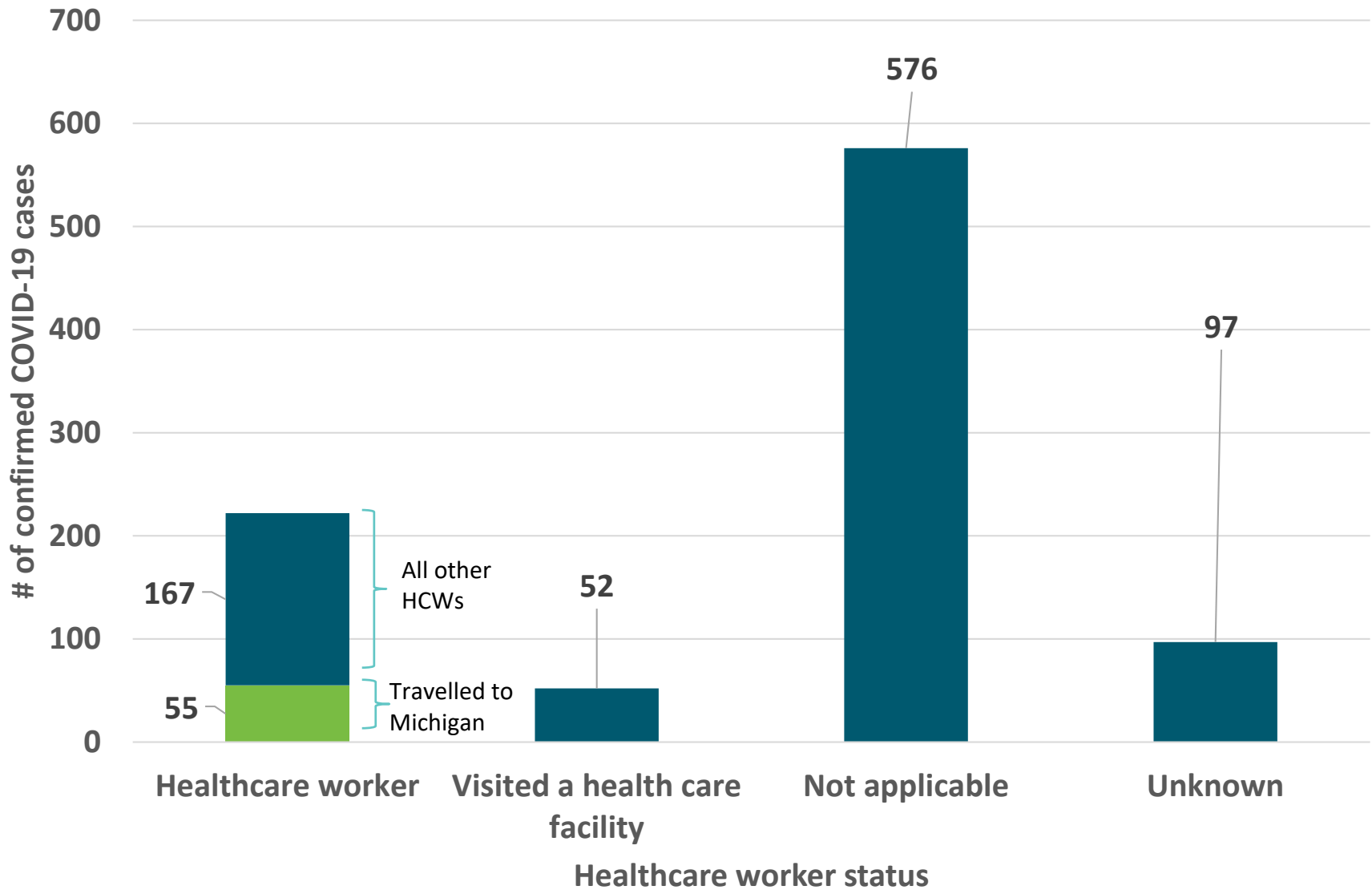
Distribution of COVID-19 Cases by Municipality



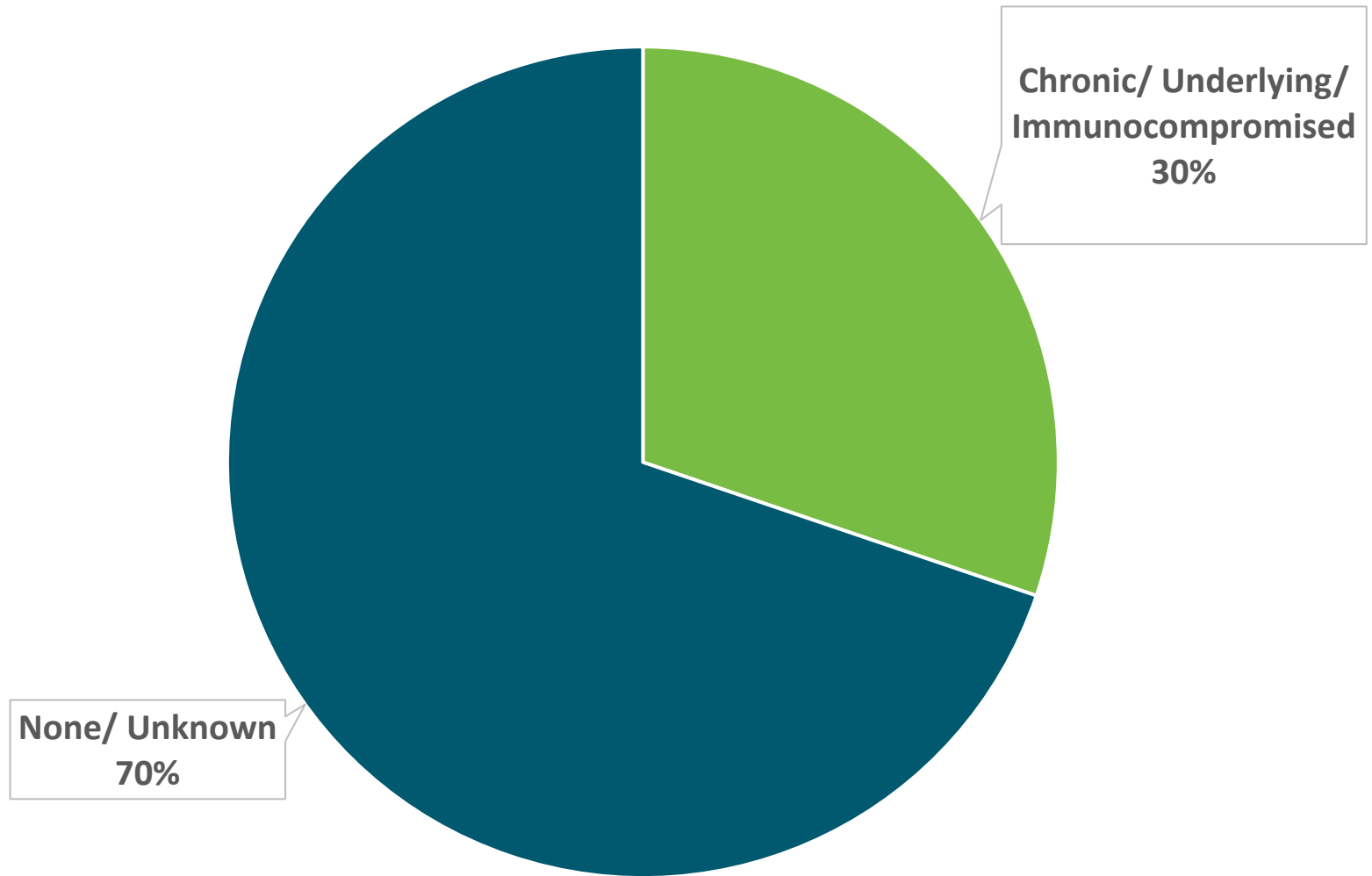
Exposure History by Reported Date



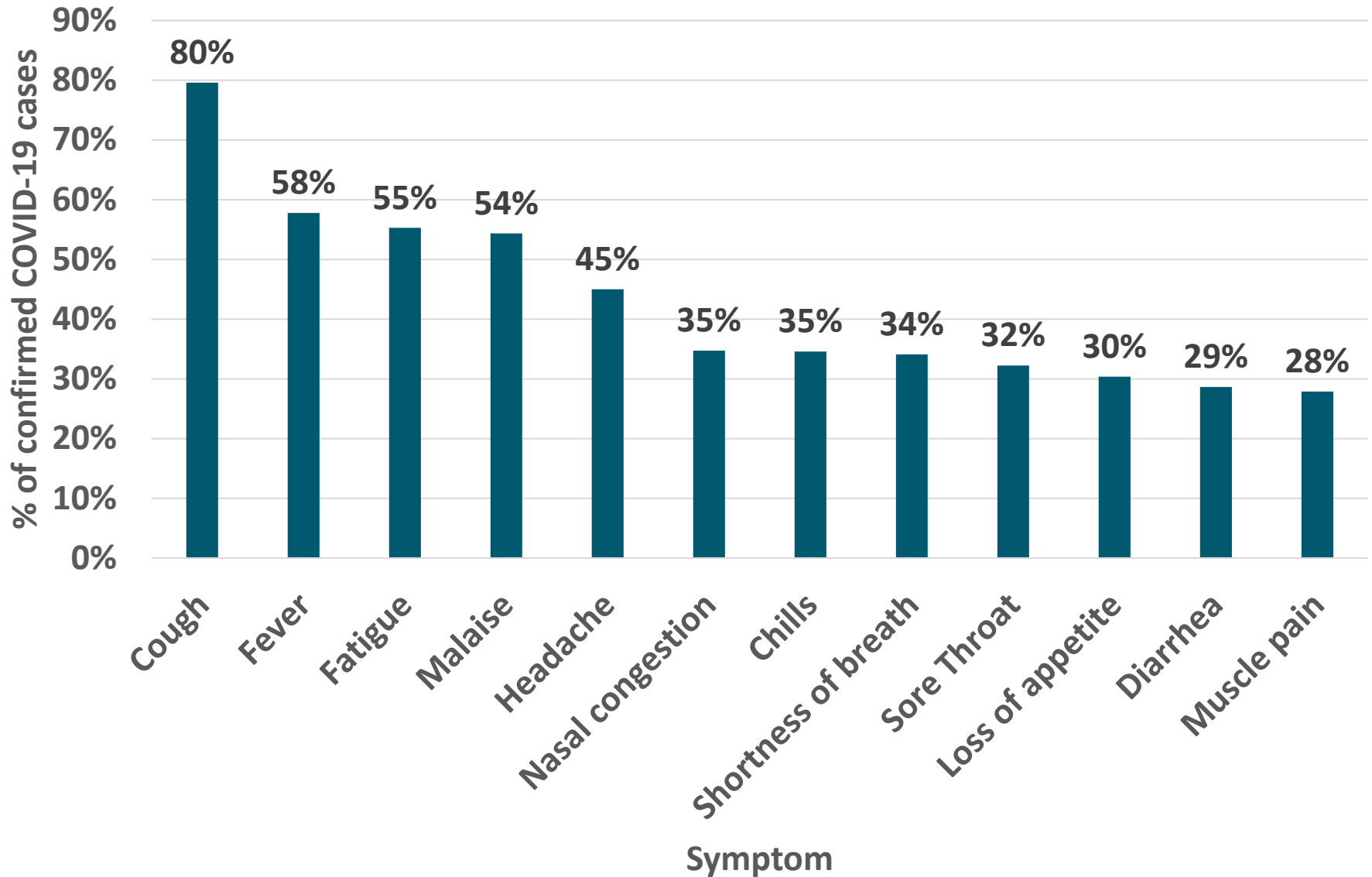
COVID-19 Cases by Healthcare Worker



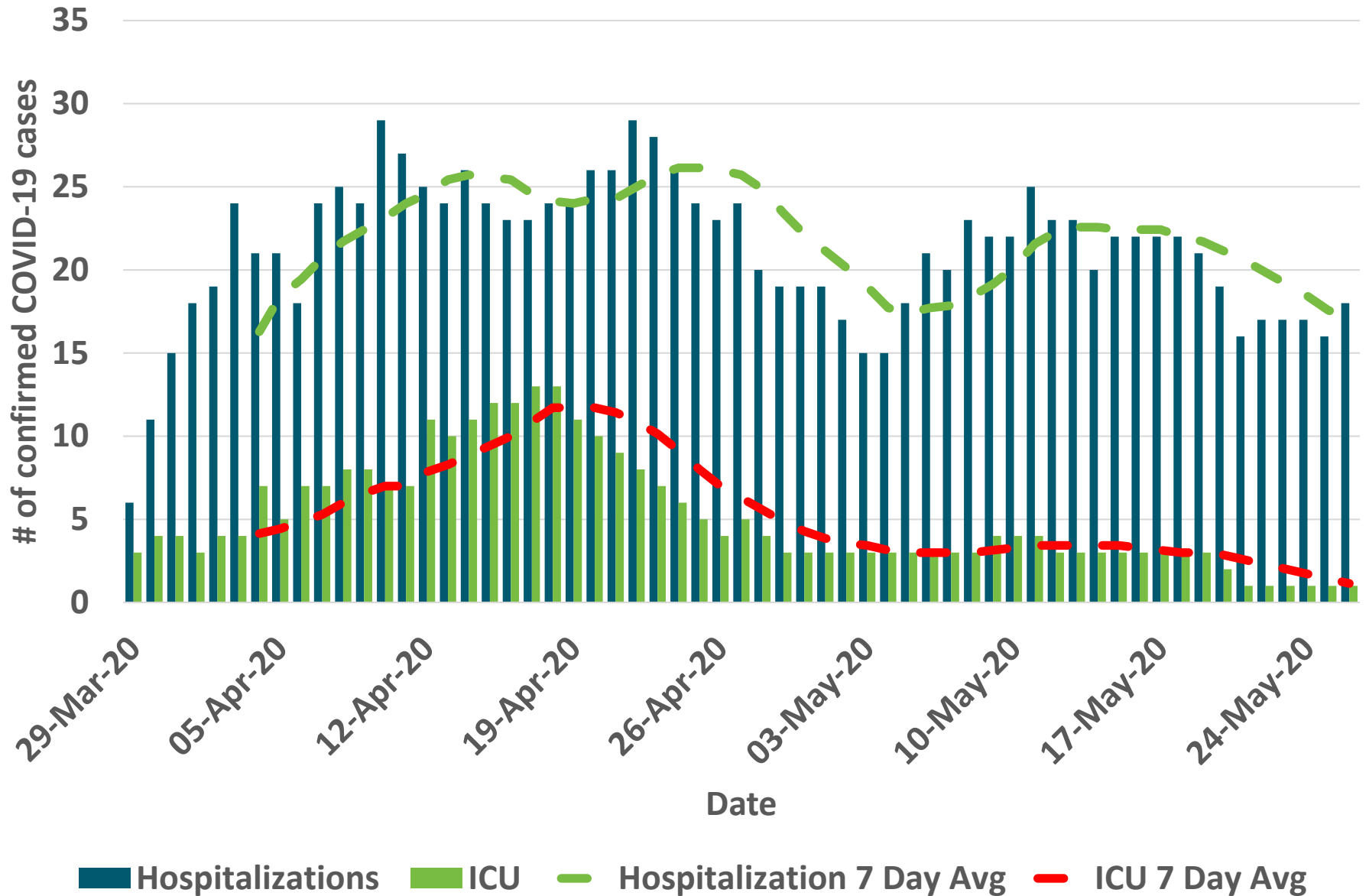
Underlying Health Conditions



Most Common Symptoms

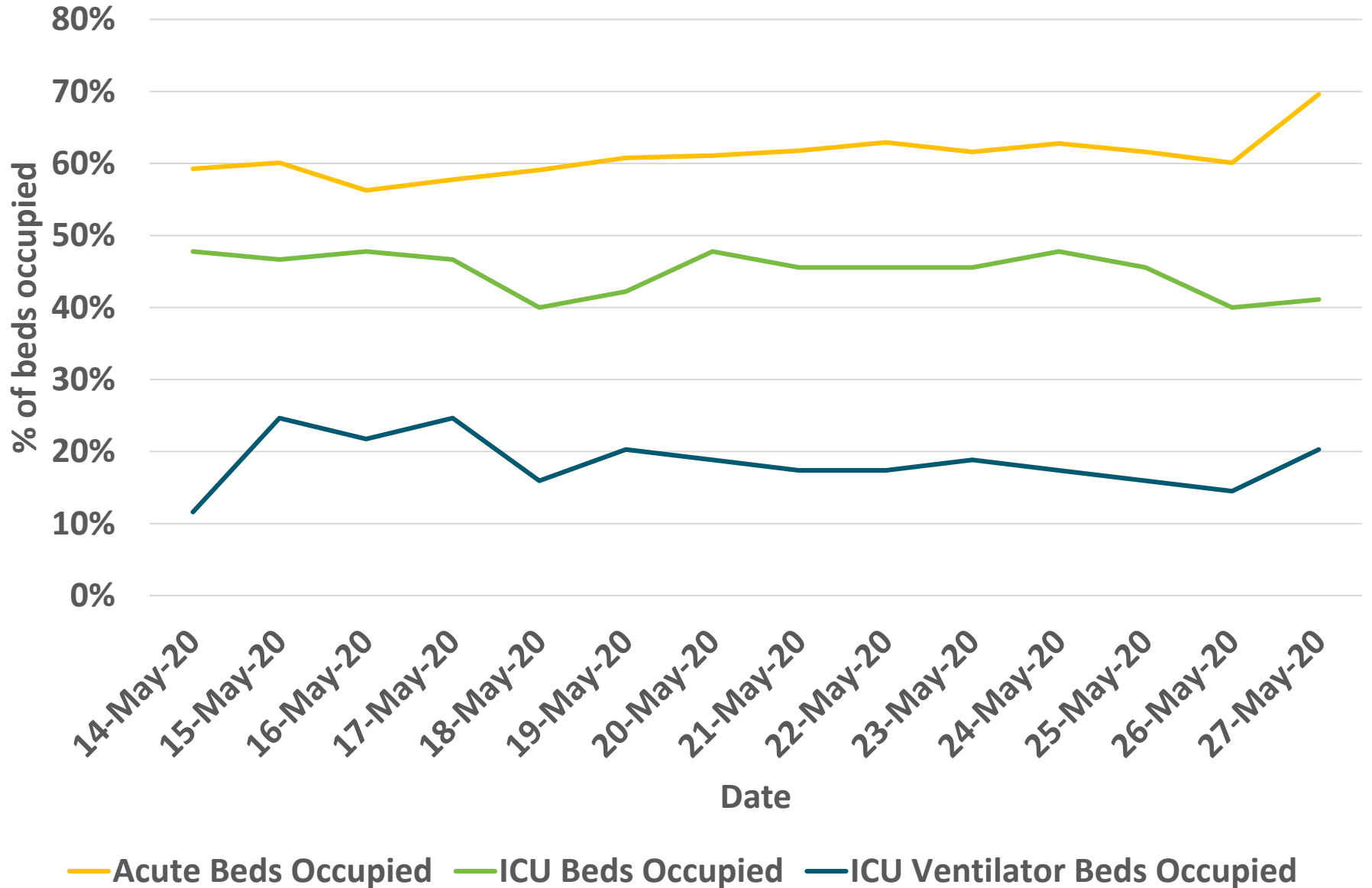


Hospitalizations & ICU for COVID-19

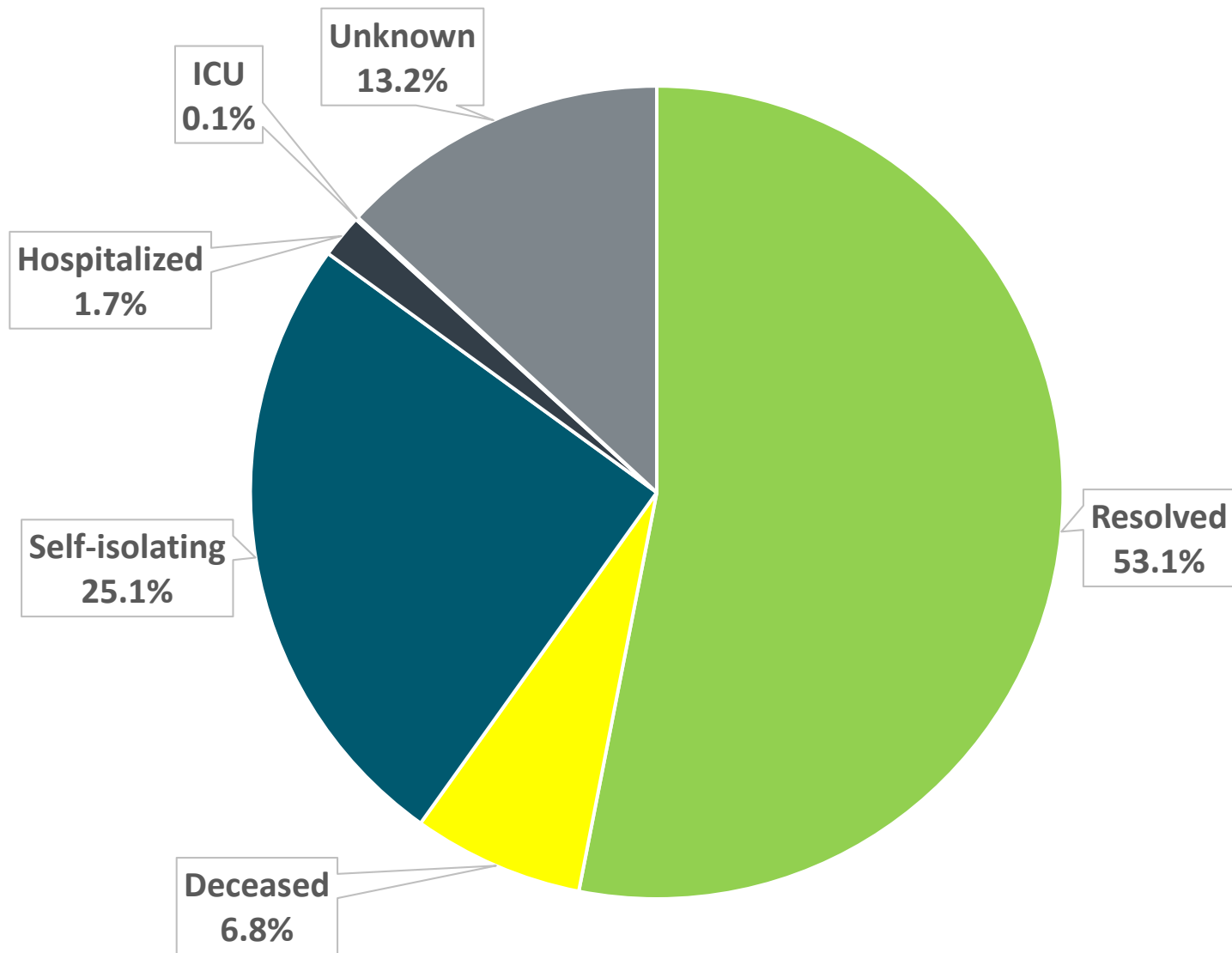


2020-06-02

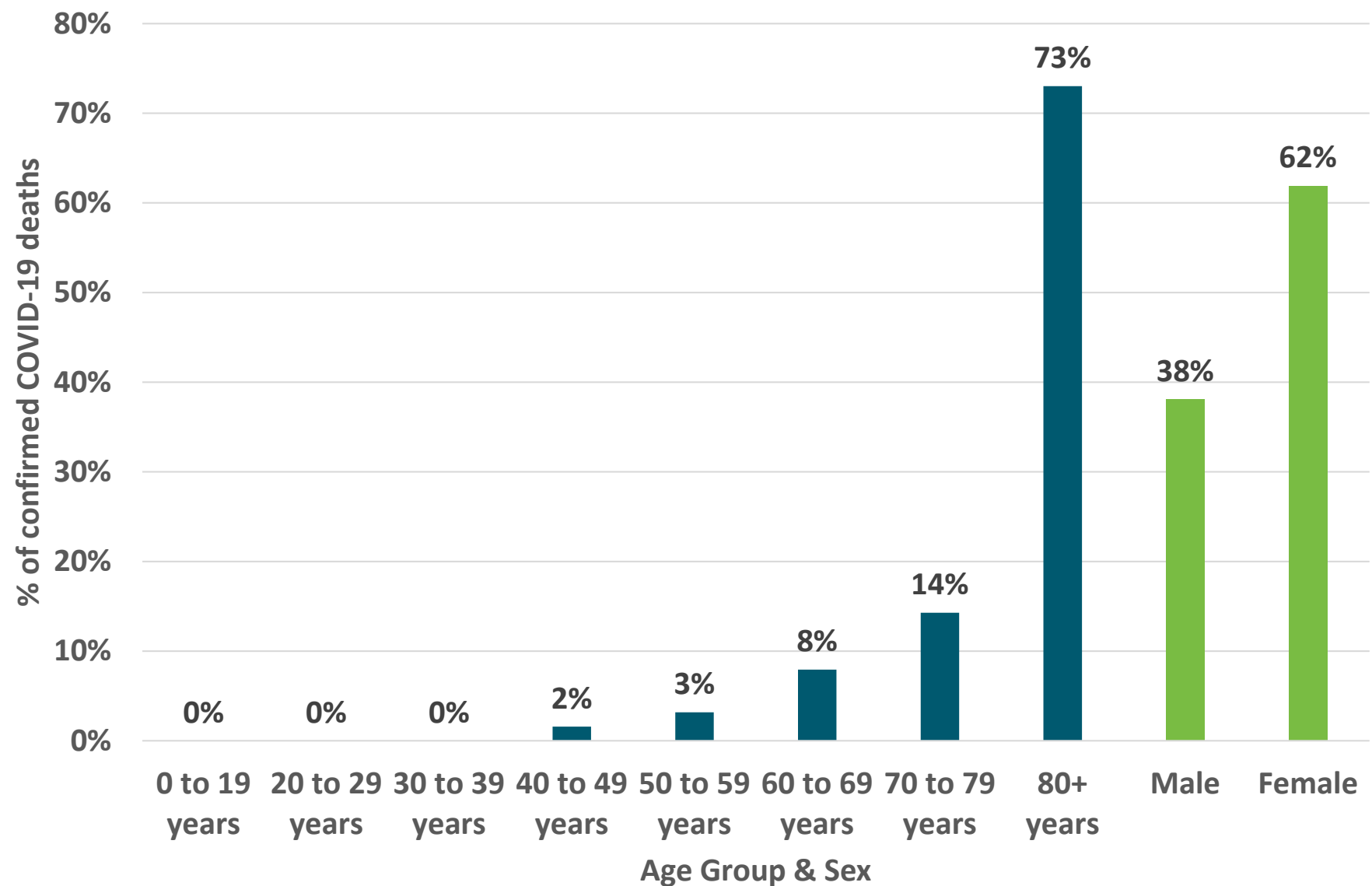
Health Care System Capacity



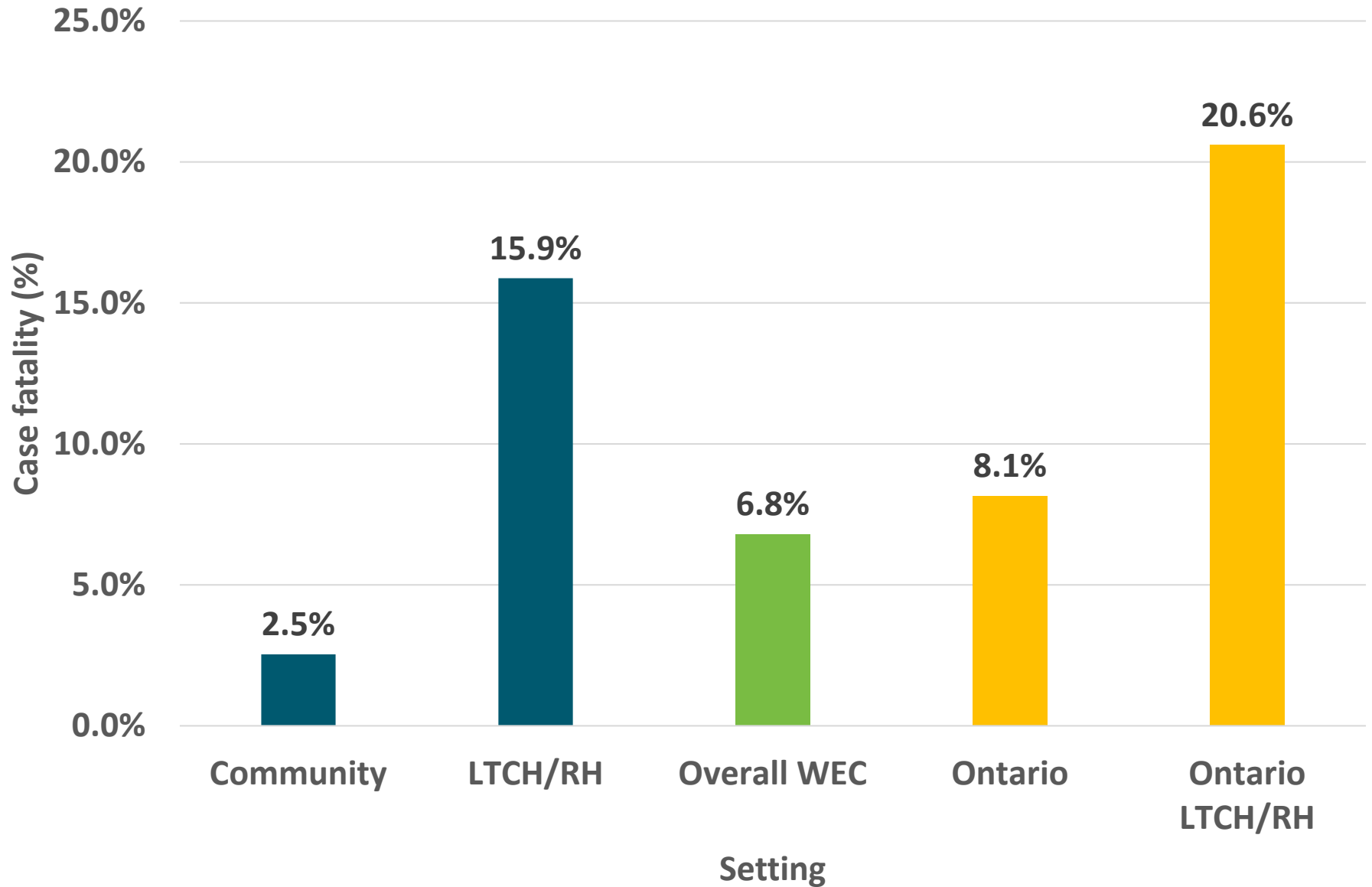
Current Outcomes



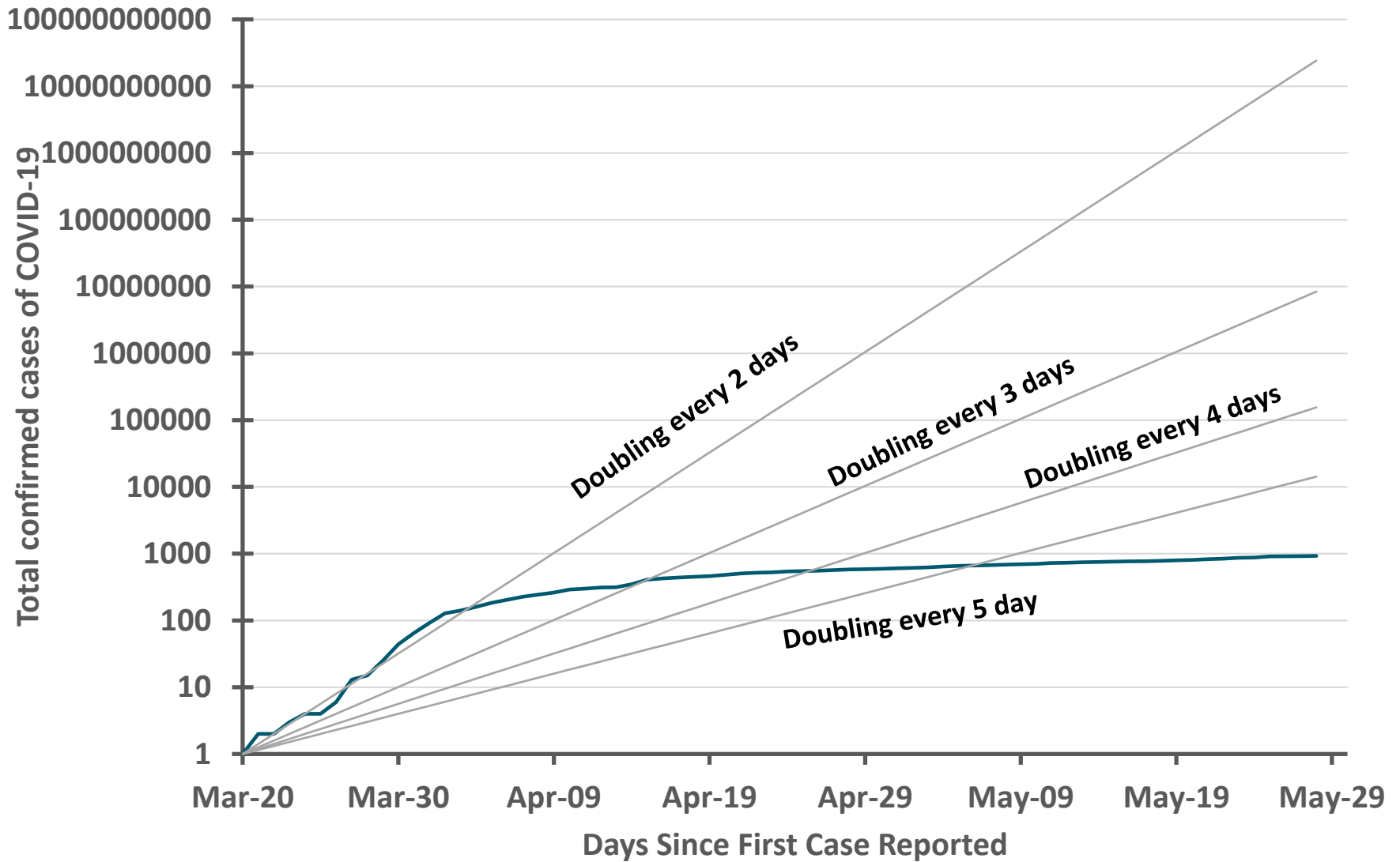
Age & Sex Breakdown of COVID-19 Deaths



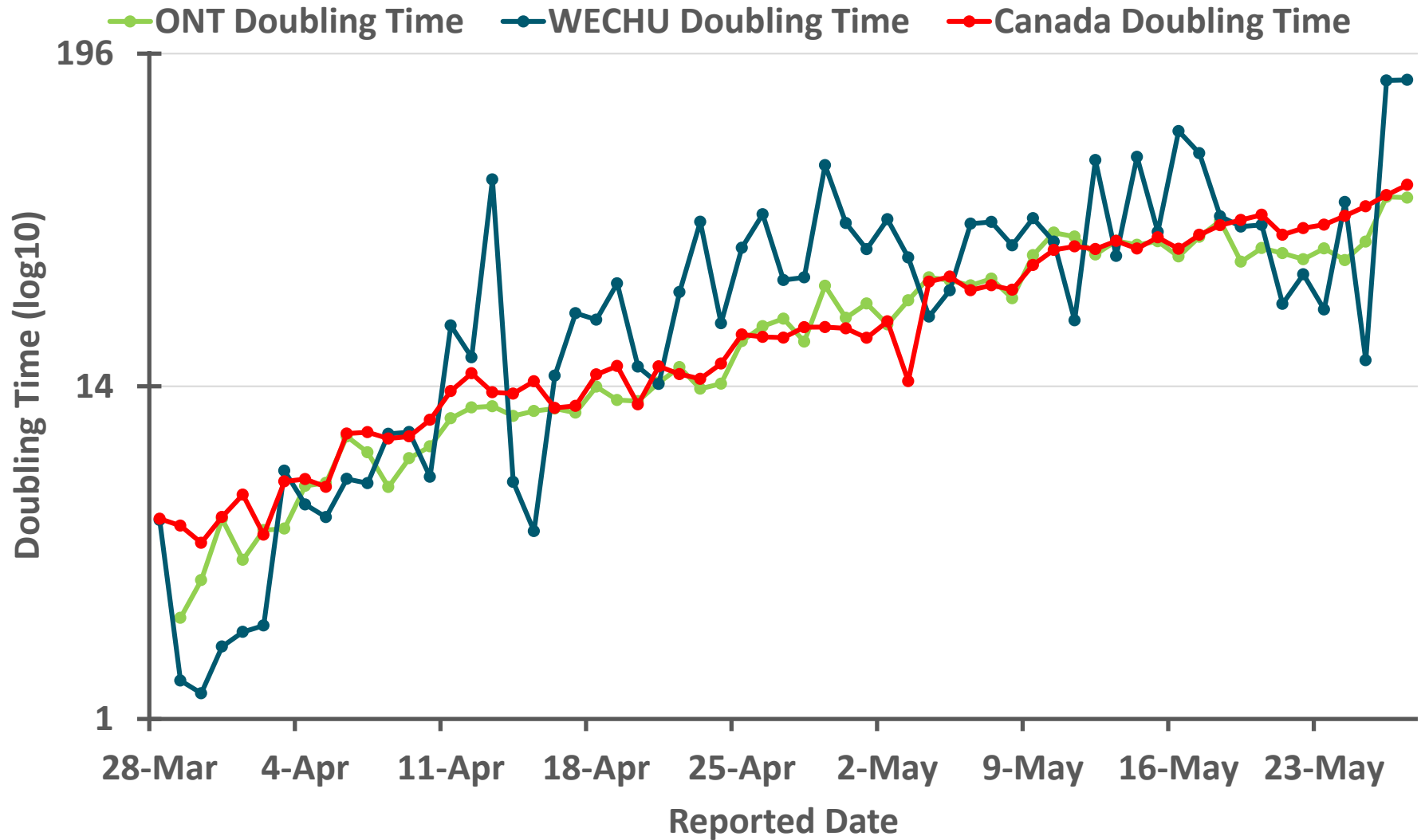
Case Fatality Rate



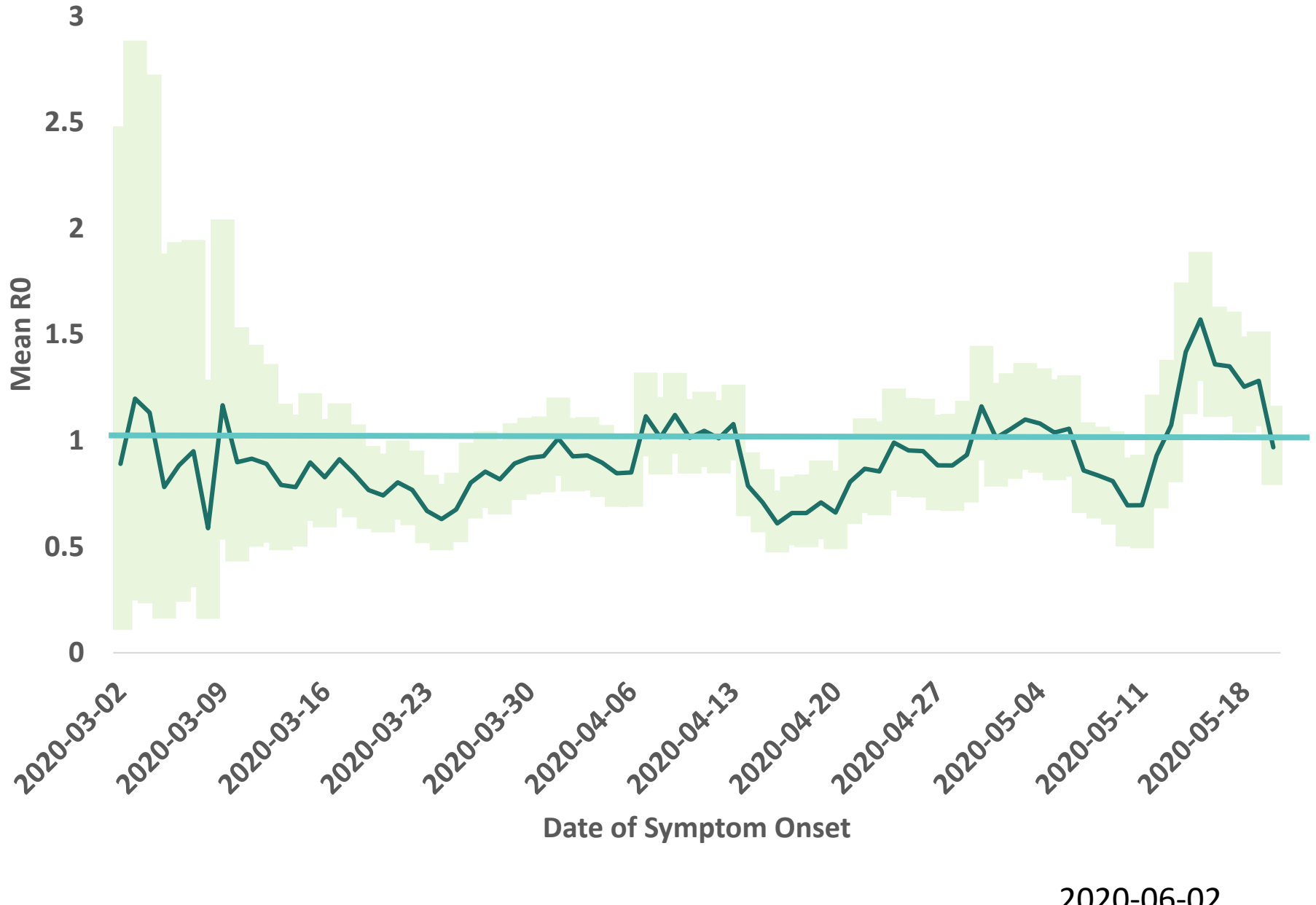
Doubling Time (Cumulative Comparison)



Doubling Time (Day over Day Comparison)



Mean R0 (Effective)



Summary

- Windsor-Essex continues to see a decline in case counts
- Windsor-Essex has the third highest rate in the province
- The primary source of exposure is through close contact with a confirmed case
- Hospitalizations and ICU capacity are within expected thresholds
- R_0 (effective) value is less than 1 but close to mean with fluctuations seen in the past week