

COVID-19 Windsor and Essex County: March 20, 2020 to June 5, 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) databases, extracted by Windsor-Essex County Health Unit [2020/06/04].
- Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Windsor-Essex County Health Unit [2020/06/04].
- Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic Summary: COVID-19 in Ontario – January 15, 2020 to June 3, 2020). Toronto, ON: Queen's Printer for Ontario; 2020.

Highlights

- At the time of reporting, there are 996 confirmed cases of COVID-19 in WEC between March 20th and June 4th.
- Based on the 3-day moving average by symptom onset, cases have started to increase in late May after observing a decline between the end of April and the middle of May
- Windsor and Essex County has the 4th highest incidence rate in the province at 231 cases per 100,000 population.
 - This incidence rate is higher compared to the overall provincial rate of 198 cases per 100,000 population.
- In the last two weeks, in all but two days were all of the positive cases reported to the WECHU has been investigated within one day of reporting.
- Between May 16th to June 3rd, 72% of the cases reported were among males and 28% were among females
 - 52% of the cases during this time period were among adults 20 to 39 years of age
- Approximately 52% of the cases reside in the City of Windsor, 12% in Kingsville and another 22% in Leamington.
 - There has been an increase in cases reported from Leamington compared to last week.
- 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 35% 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, malaise and fatigue.
- COVID-19 cases that are hospitalized have continued to decrease in the past week alongside while ICU cases have stabilized to one COVID case.
- Approximately 31% of cases are still in self-isolation while 57% of cases have resolved.

- The overall case fatality rate in WEC is 6.6%, lower than the province (8.0%).
- 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 0.56 and has declined from last week.



COVID-19 *LIVE UPDATE*

June 5, 2020

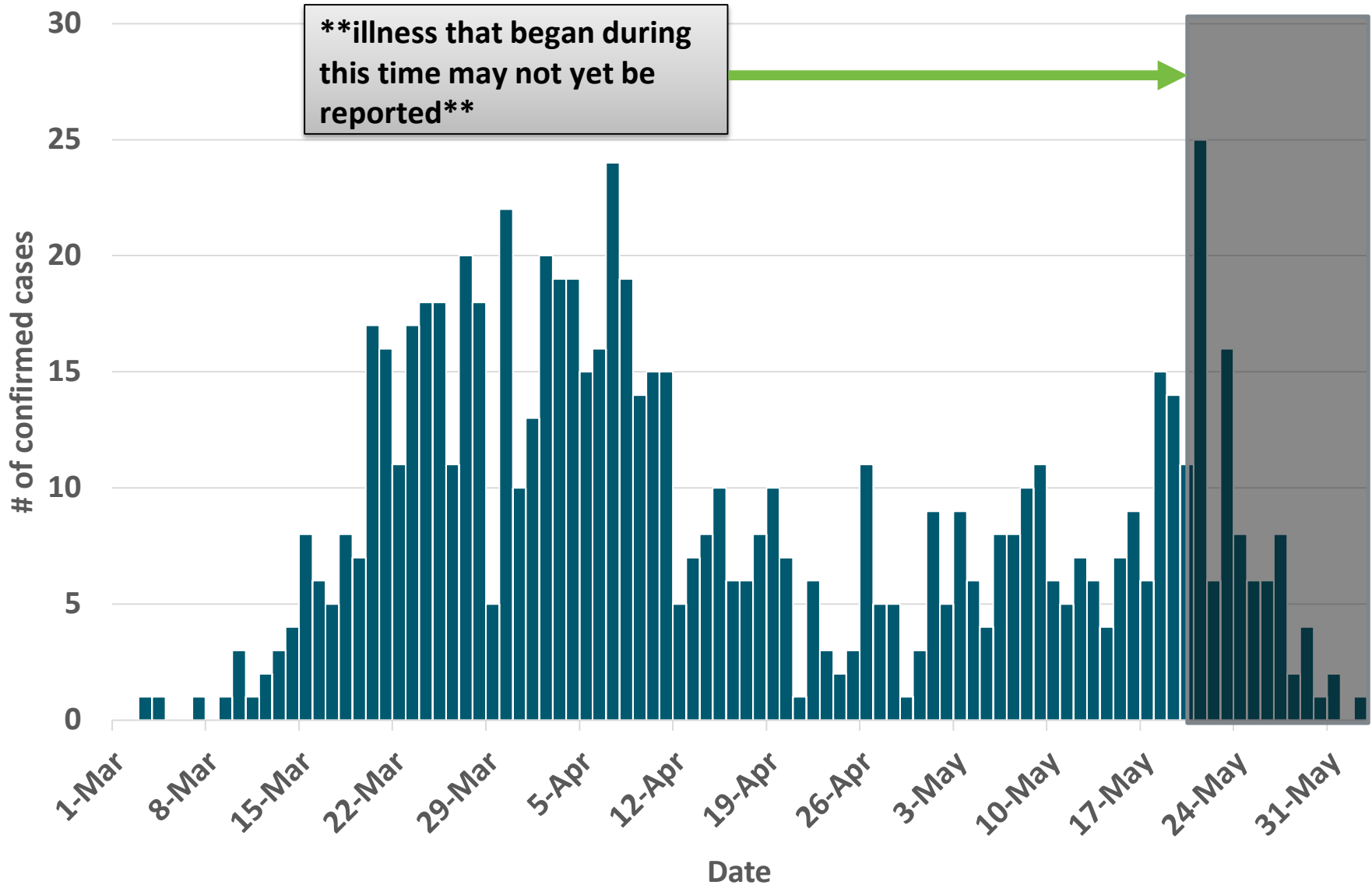
FOR UP-TO-DATE
CASE NUMBERS
VISIT
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COVID-19 Epidemiological Summary

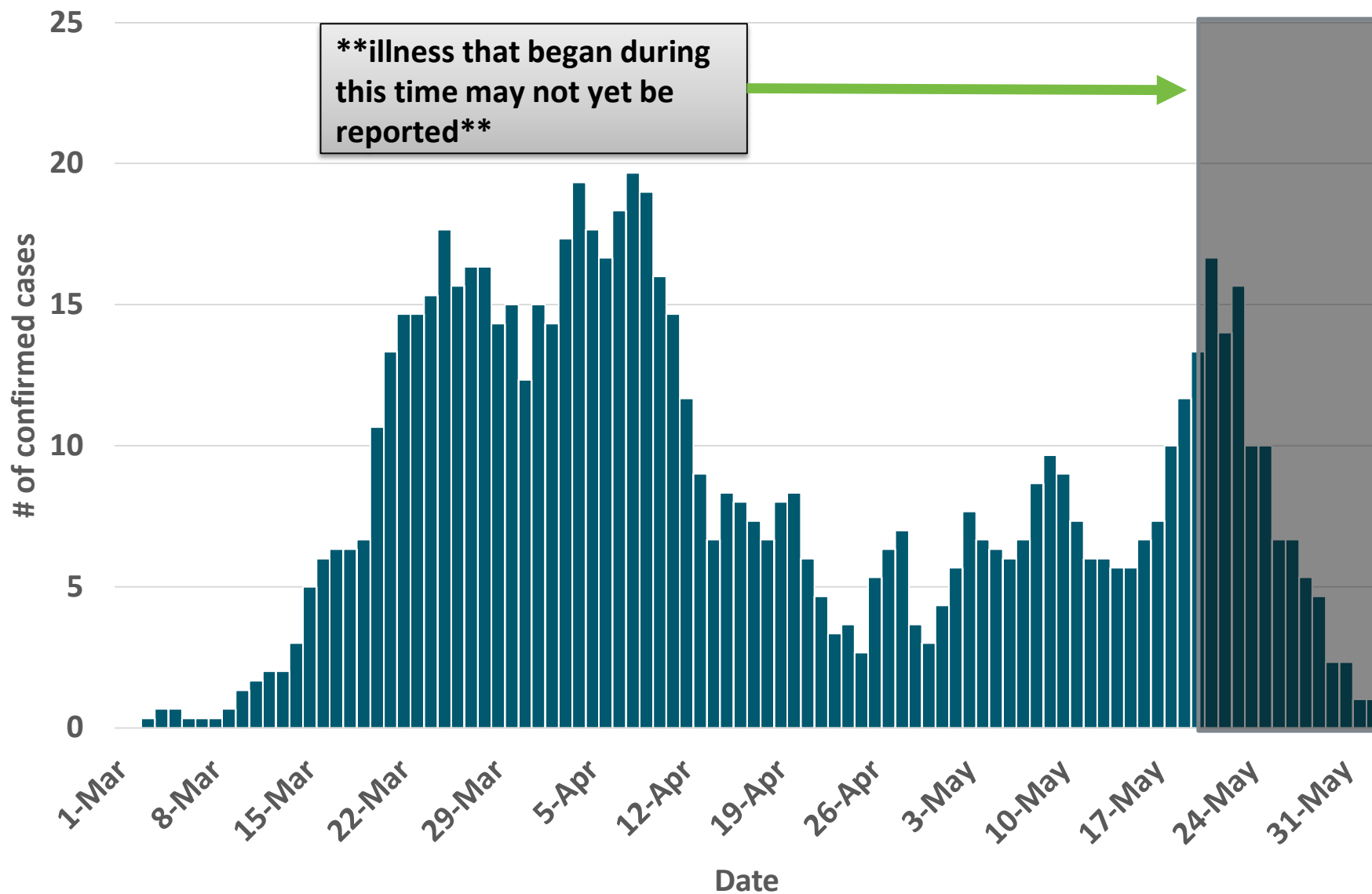
Content covered:

- Epidemic curves
- Regional & provincial rates
- 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

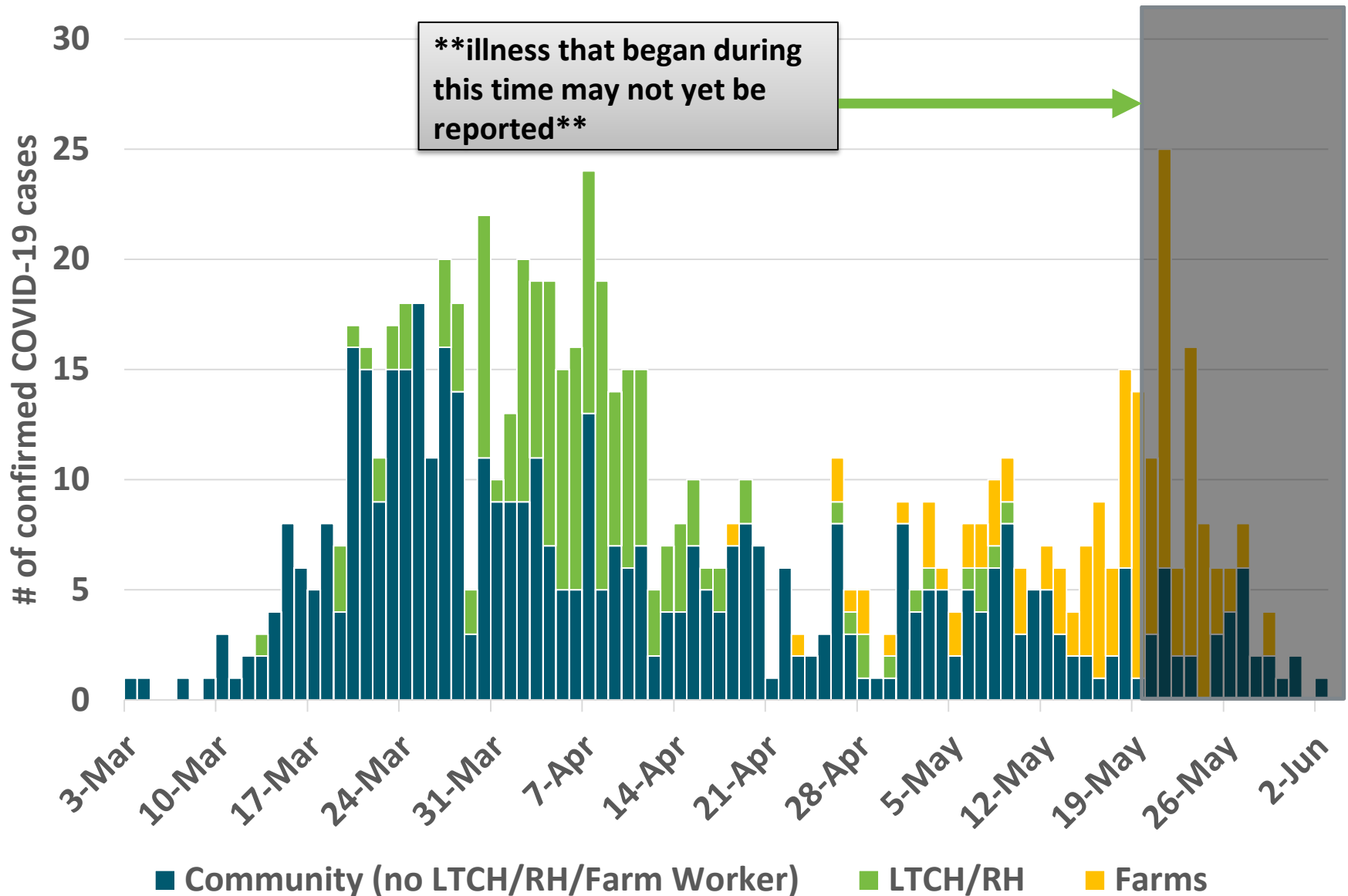


Epidemic Curve by 3-Day Moving Average by Symptom Onset



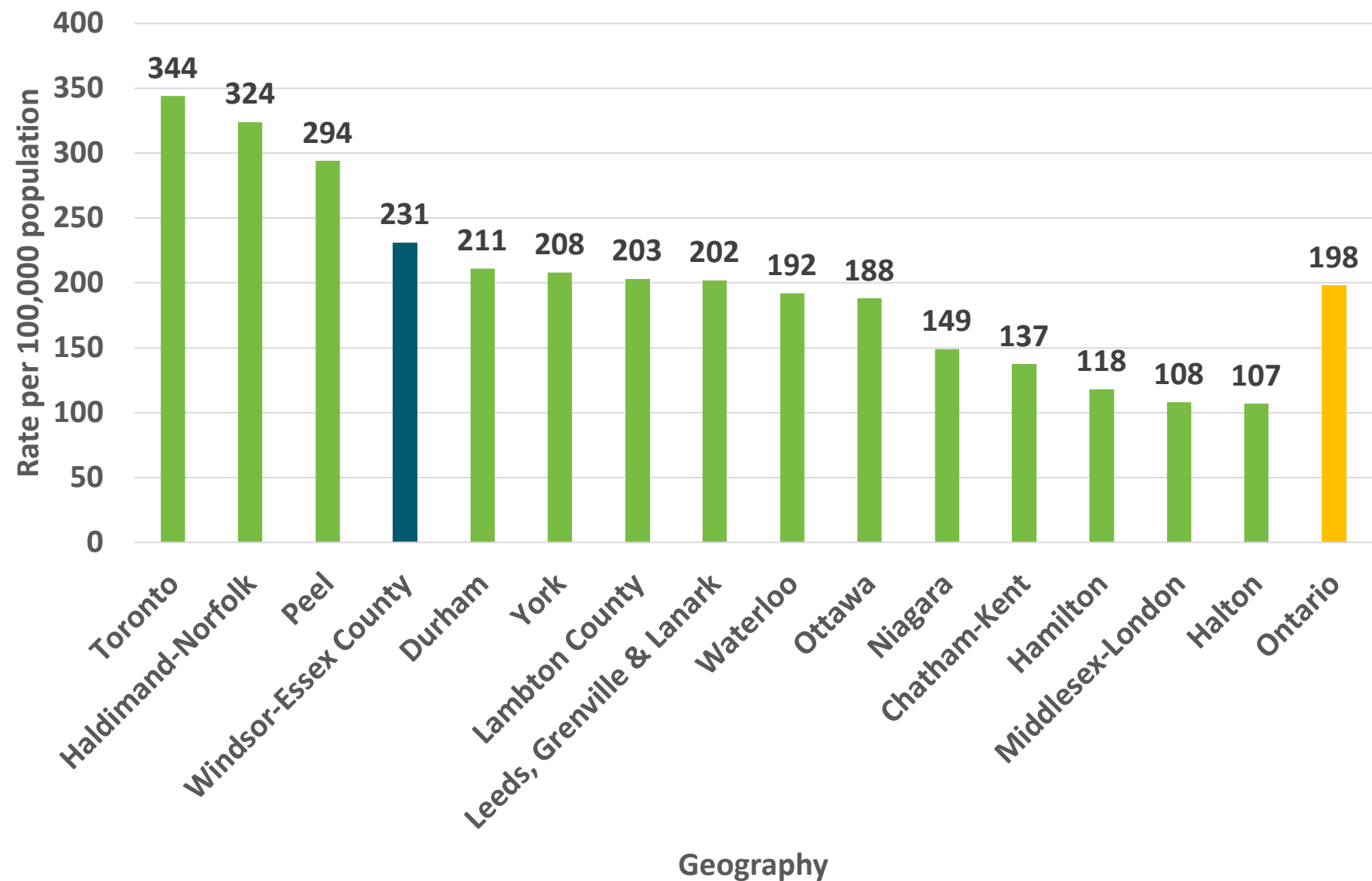
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Epidemic Curve by Community vs. LTCH/RH vs. Farms by Symptom Onset

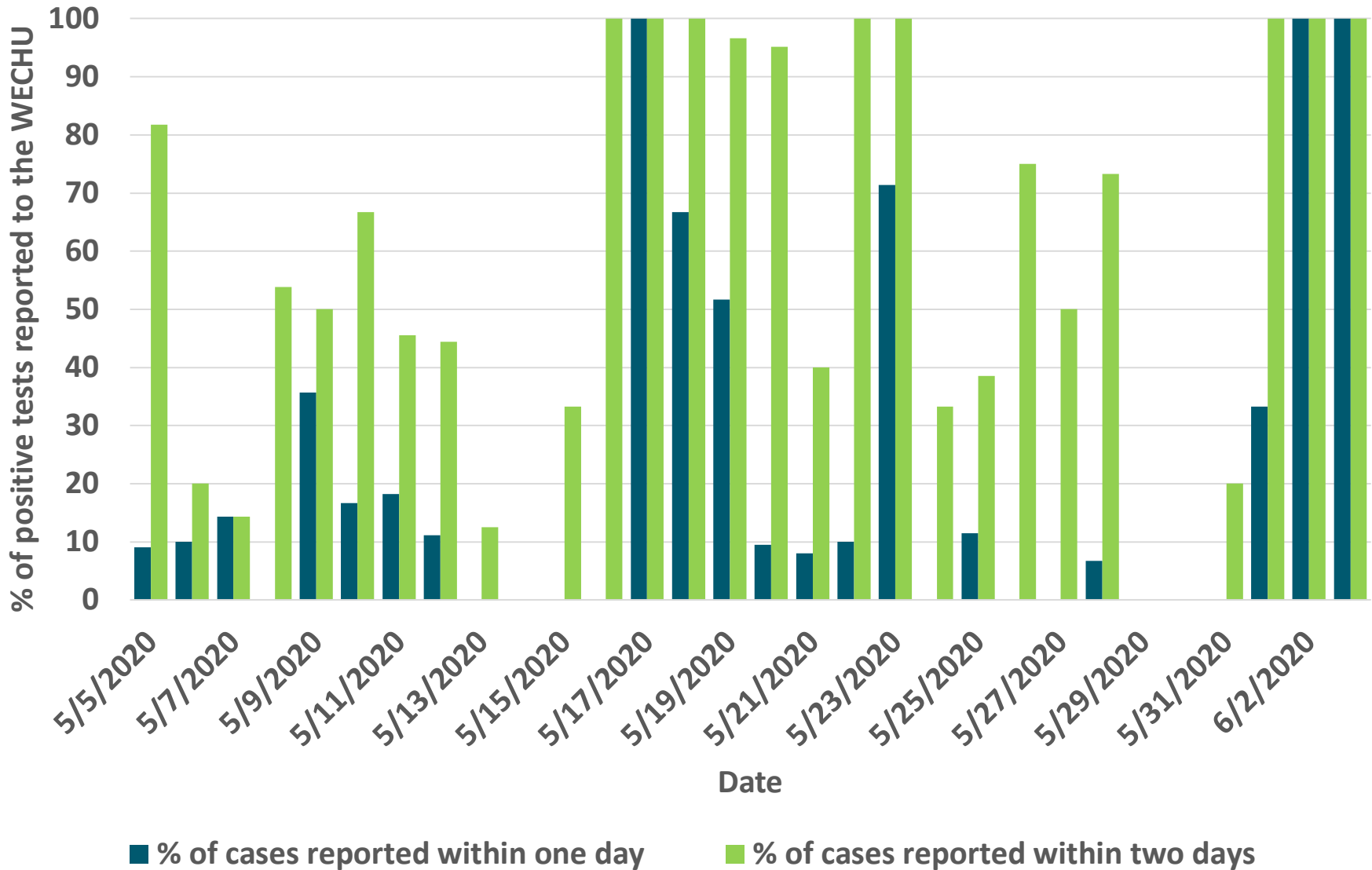


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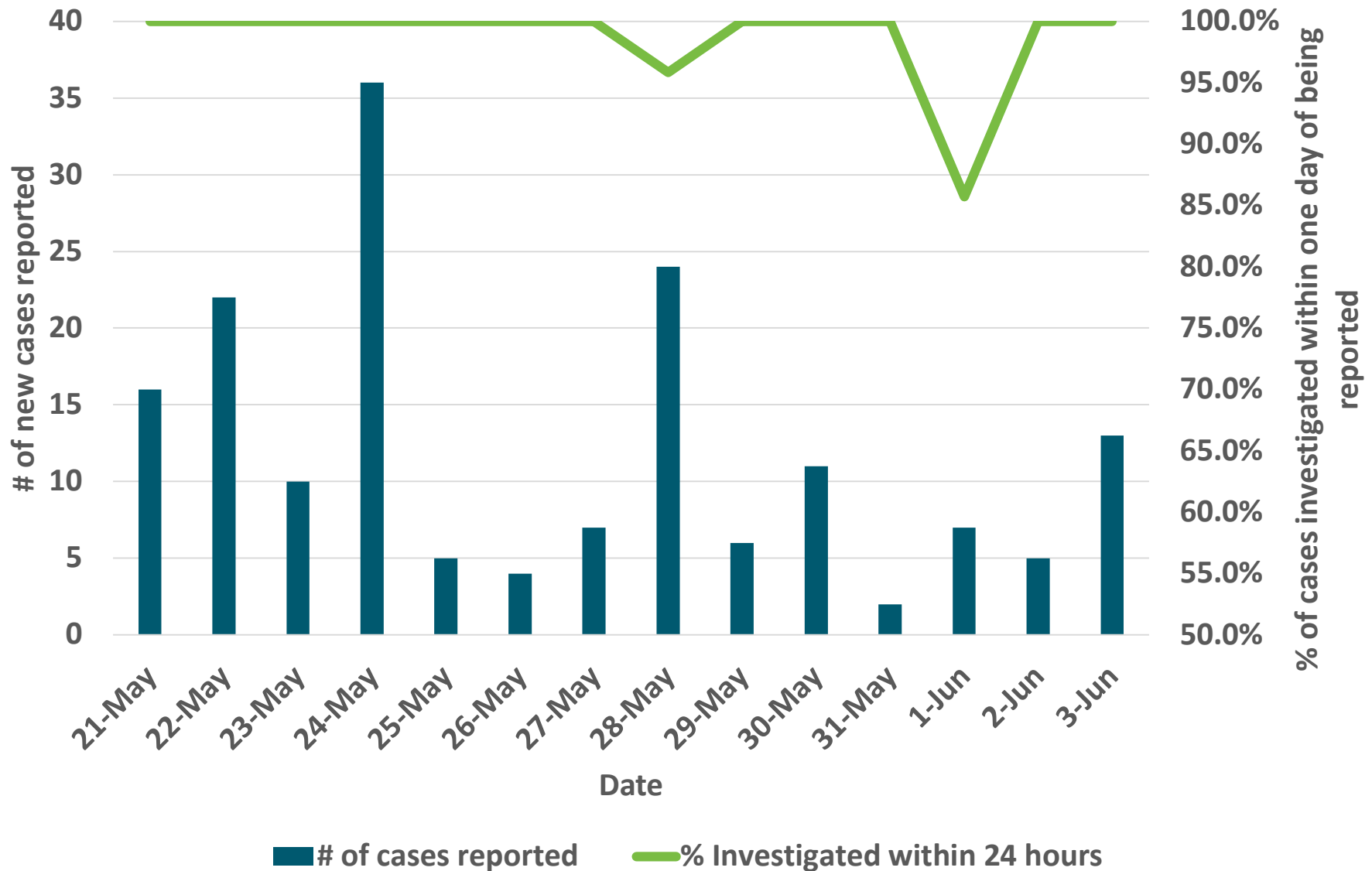
Regional & Provincial Rates



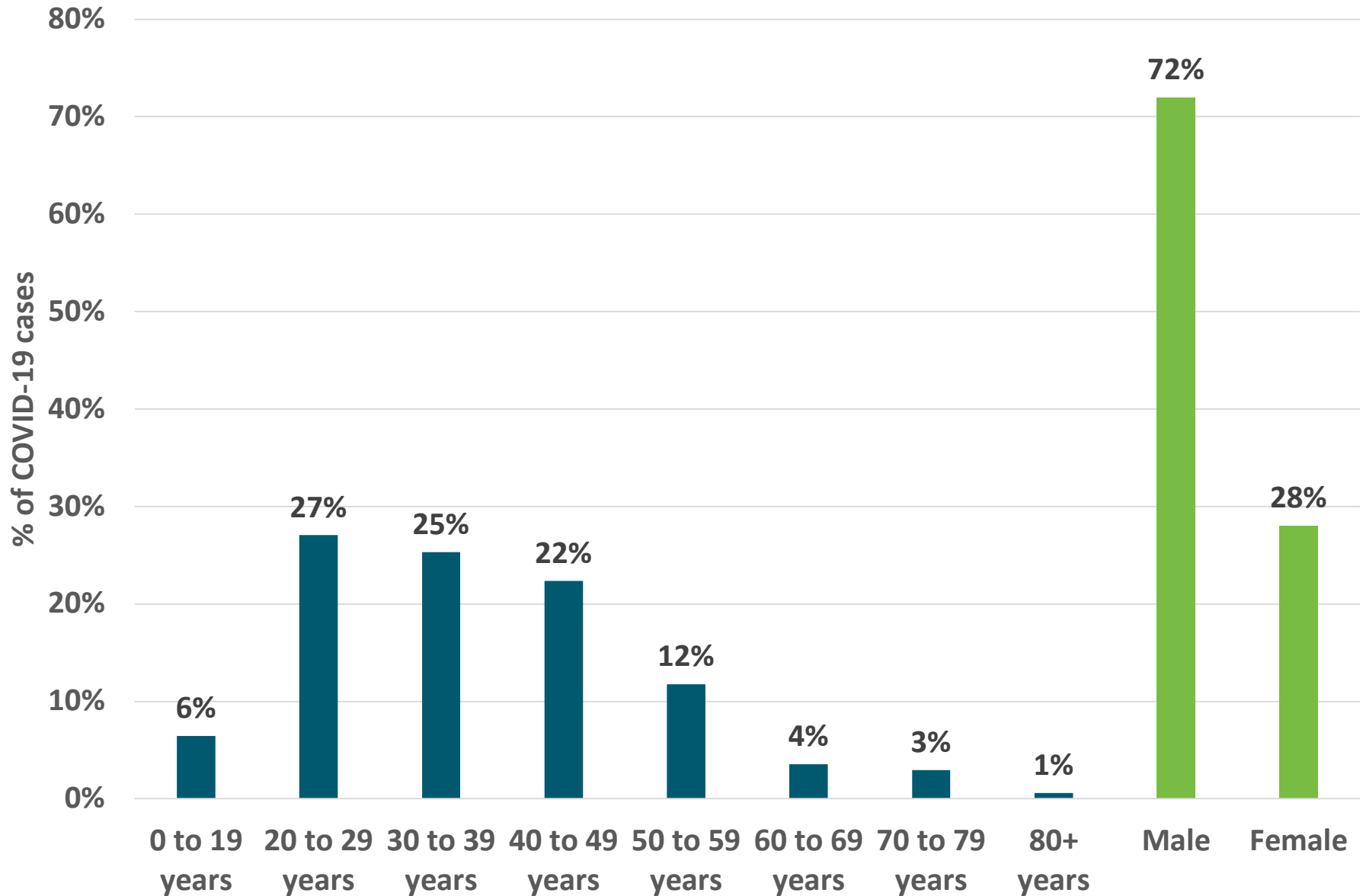
Percentage of positive tests reported in one and two days of test date



Percent of New Cases Investigated Within 24 Hours of Reported Date

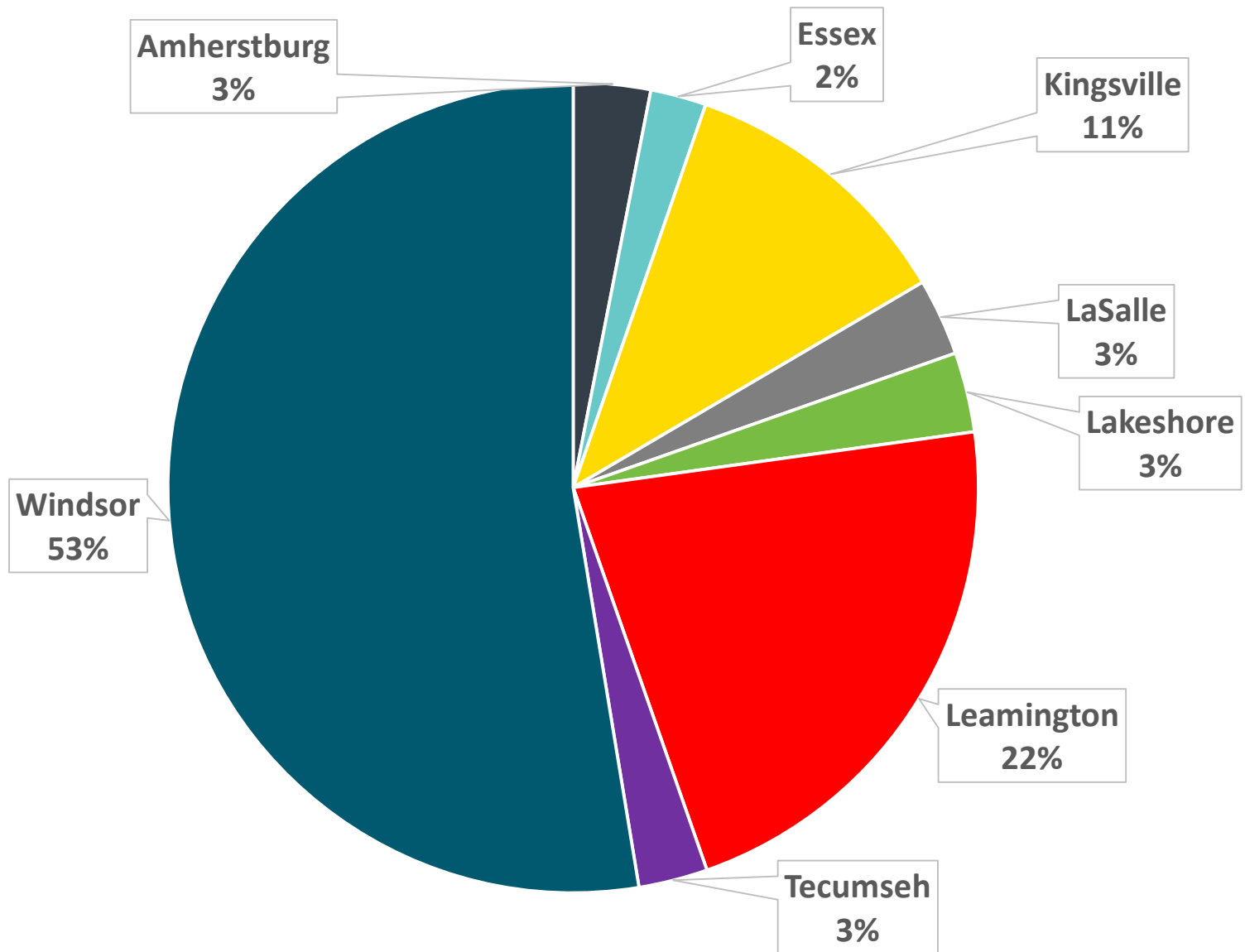


Age & Sex Distribution (May 16 to June 3)

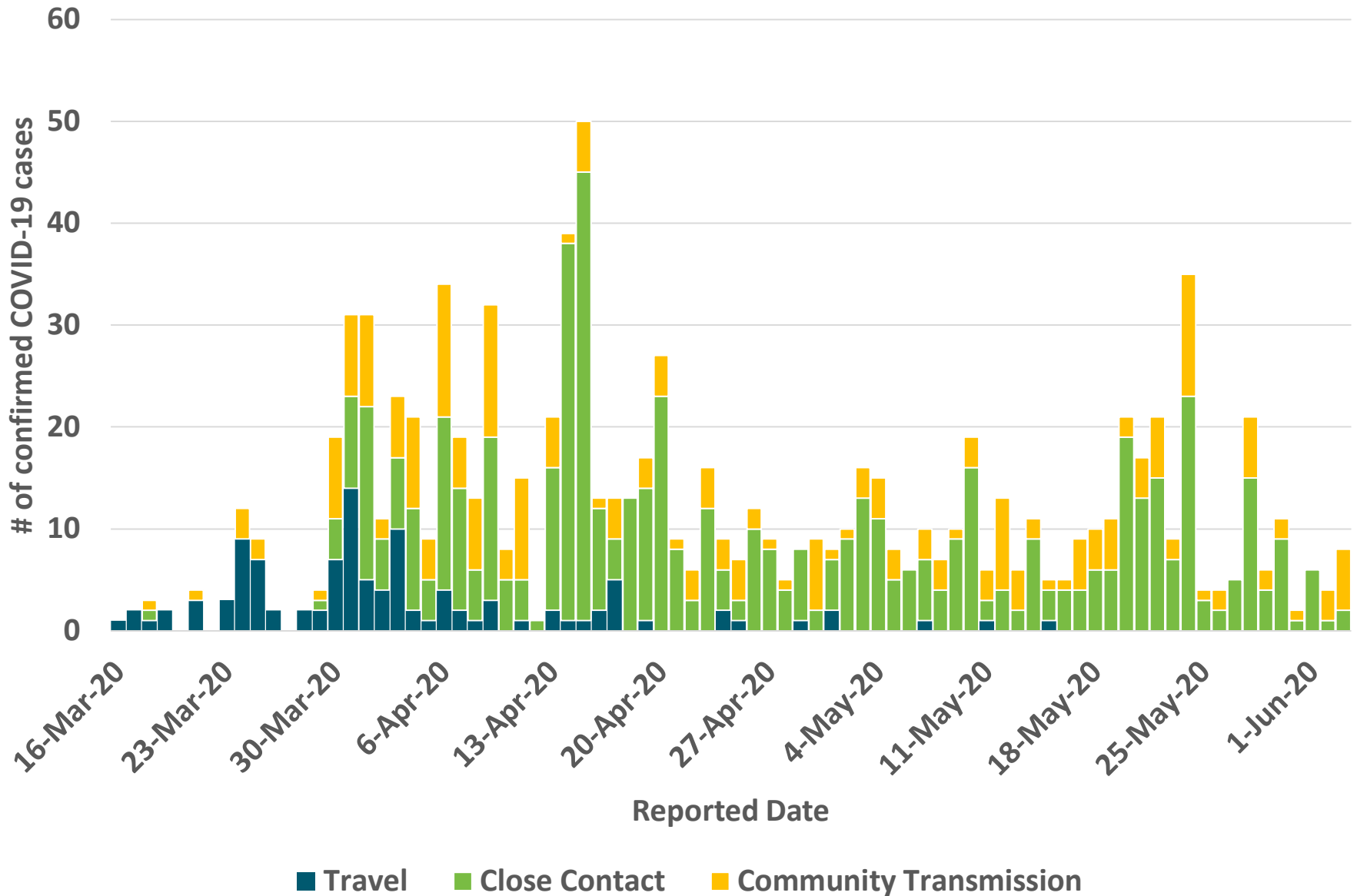


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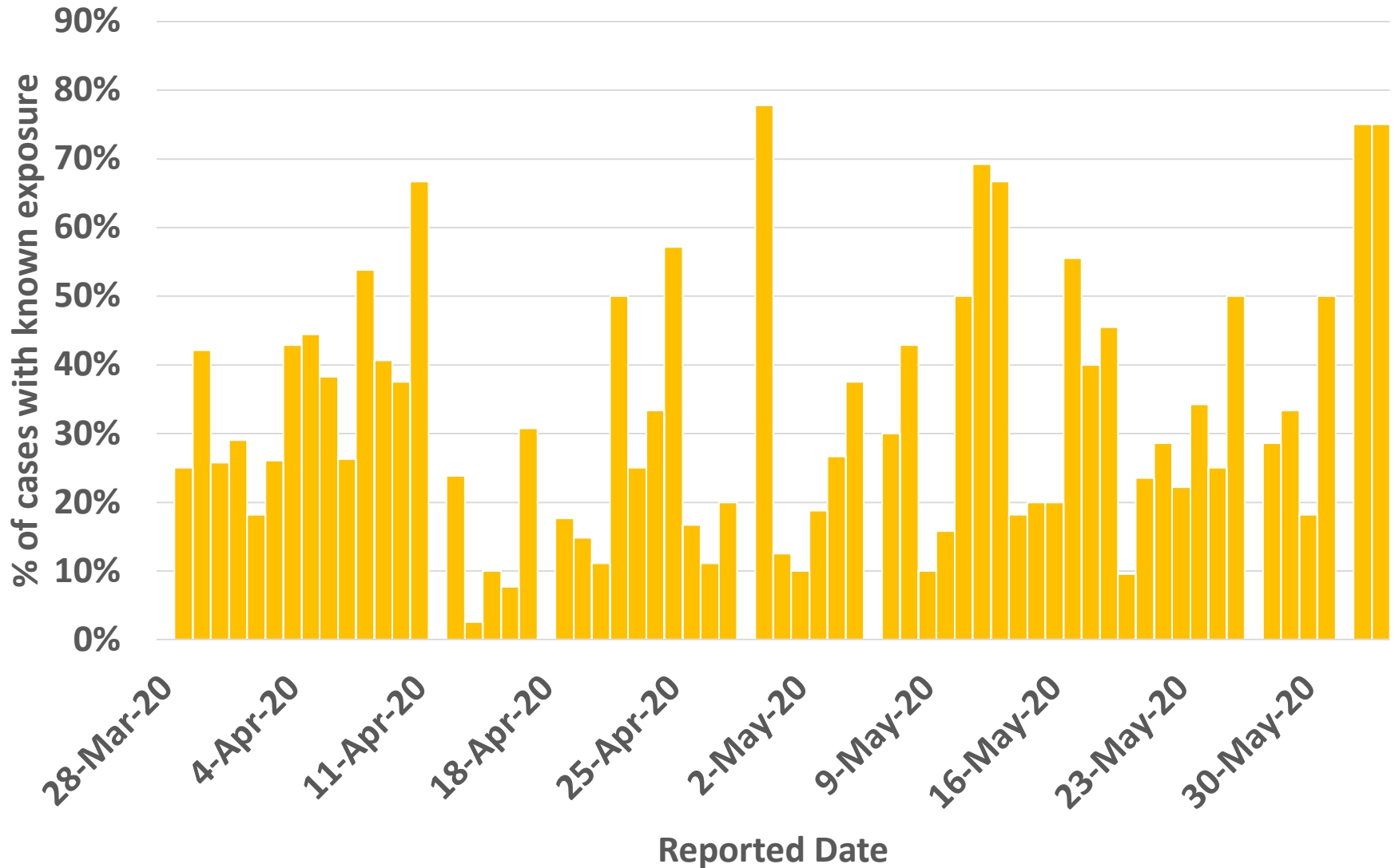
Distribution of COVID-19 Cases by Municipality



Exposure History by Reported Date

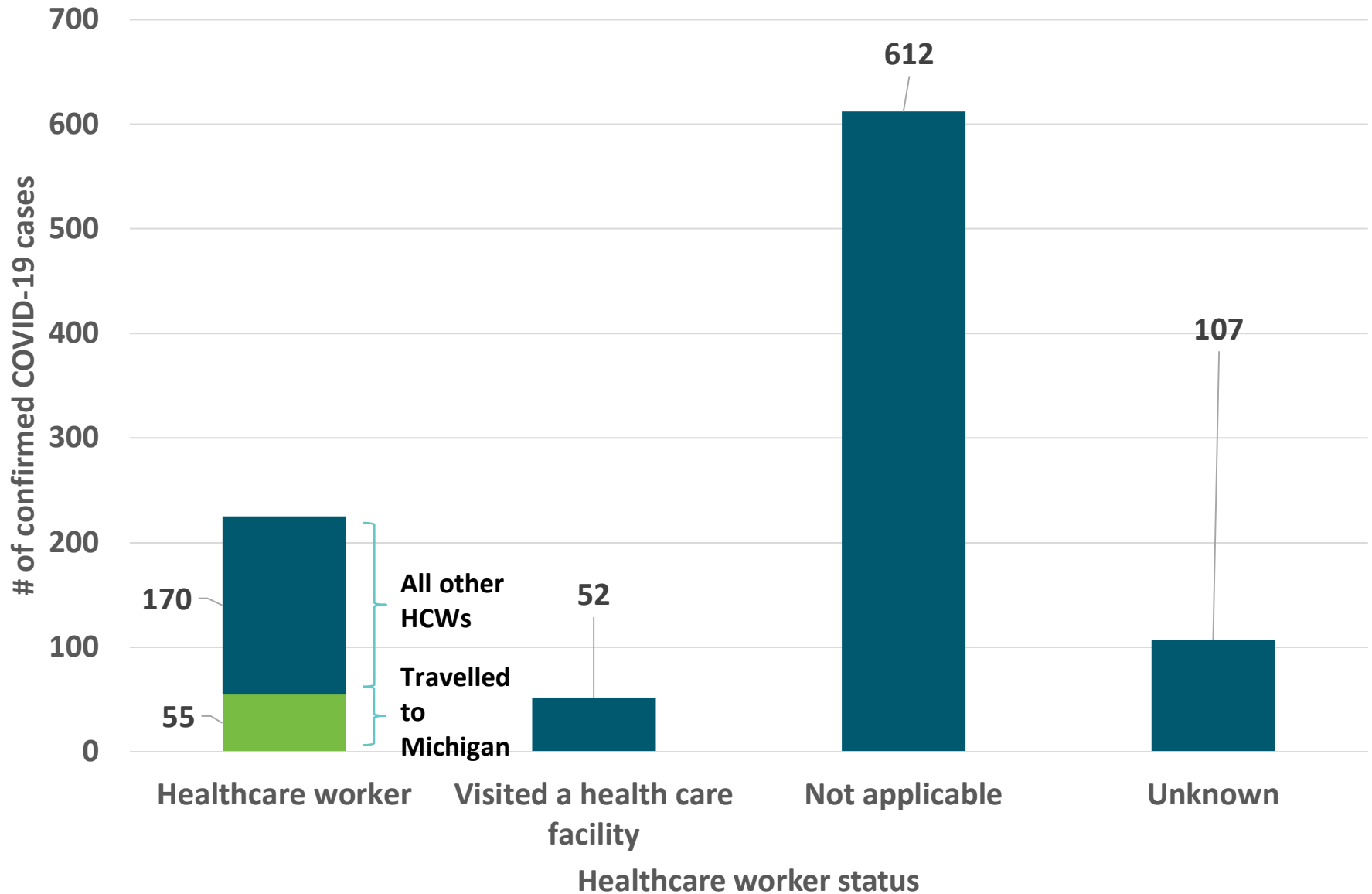


Percentage of Cases by Community Acquired Transmission and Reported Date

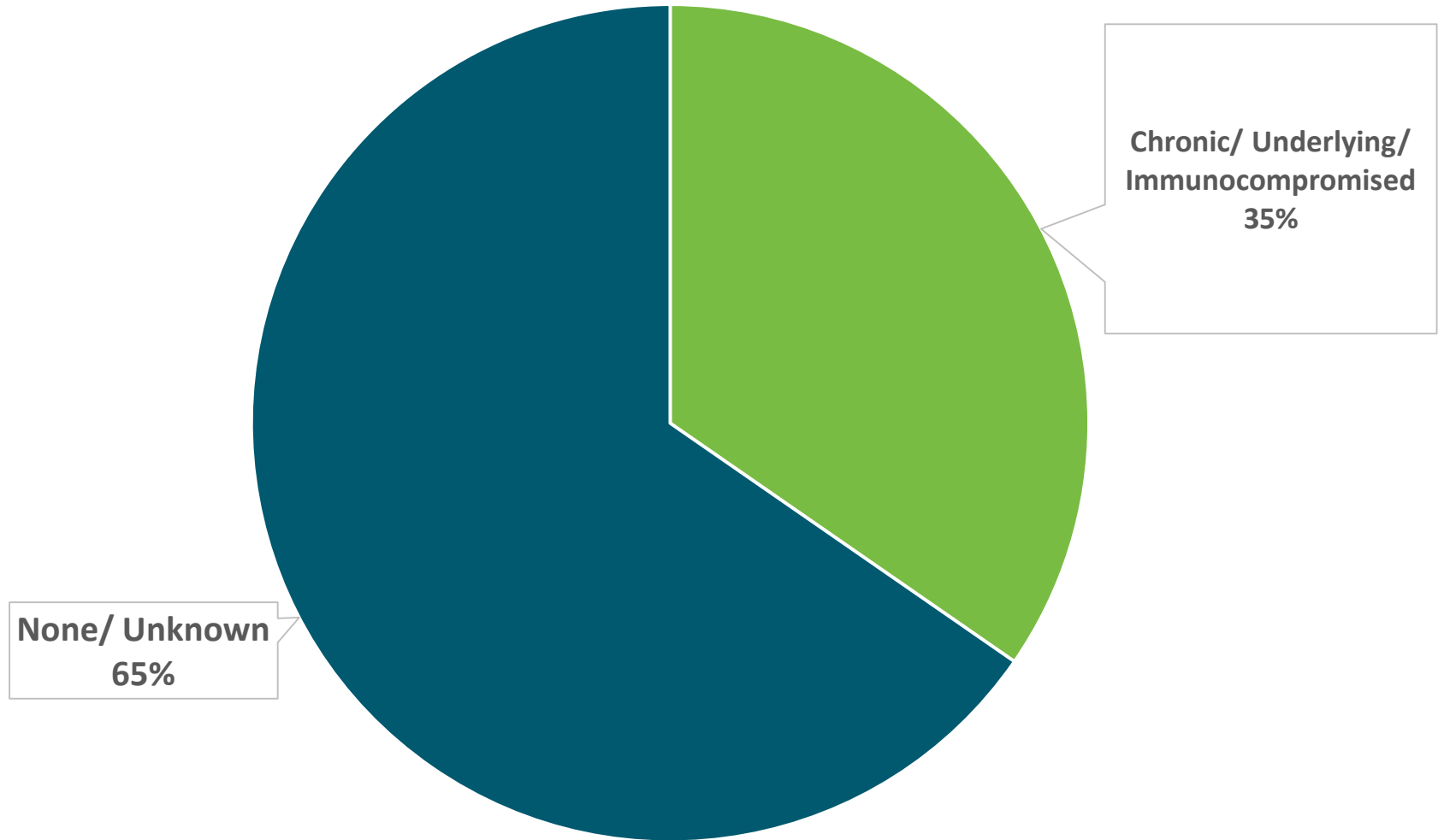


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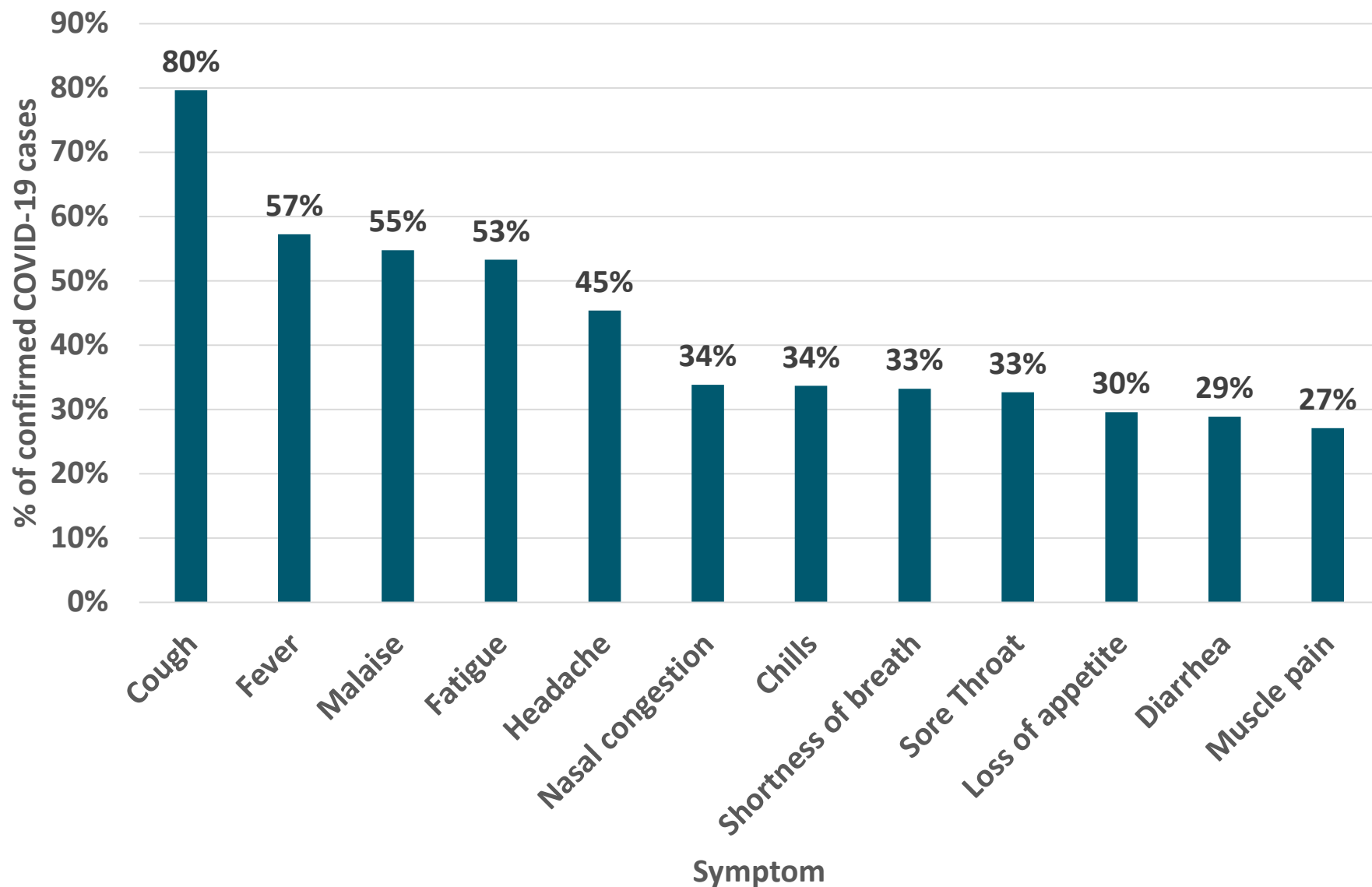
COVID-19 Cases by Healthcare Worker



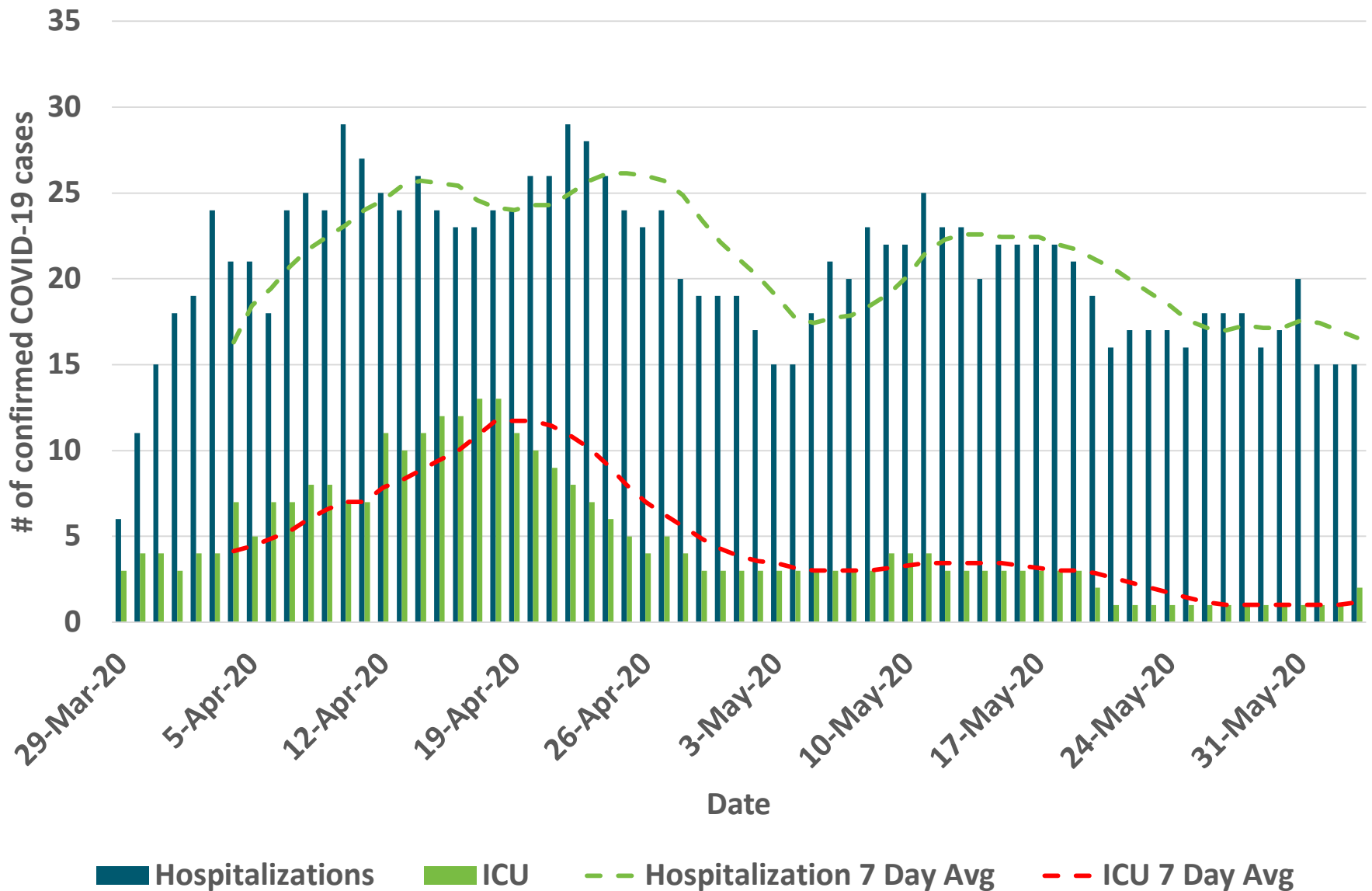
Underlying Health Conditions



Most Common Symptoms

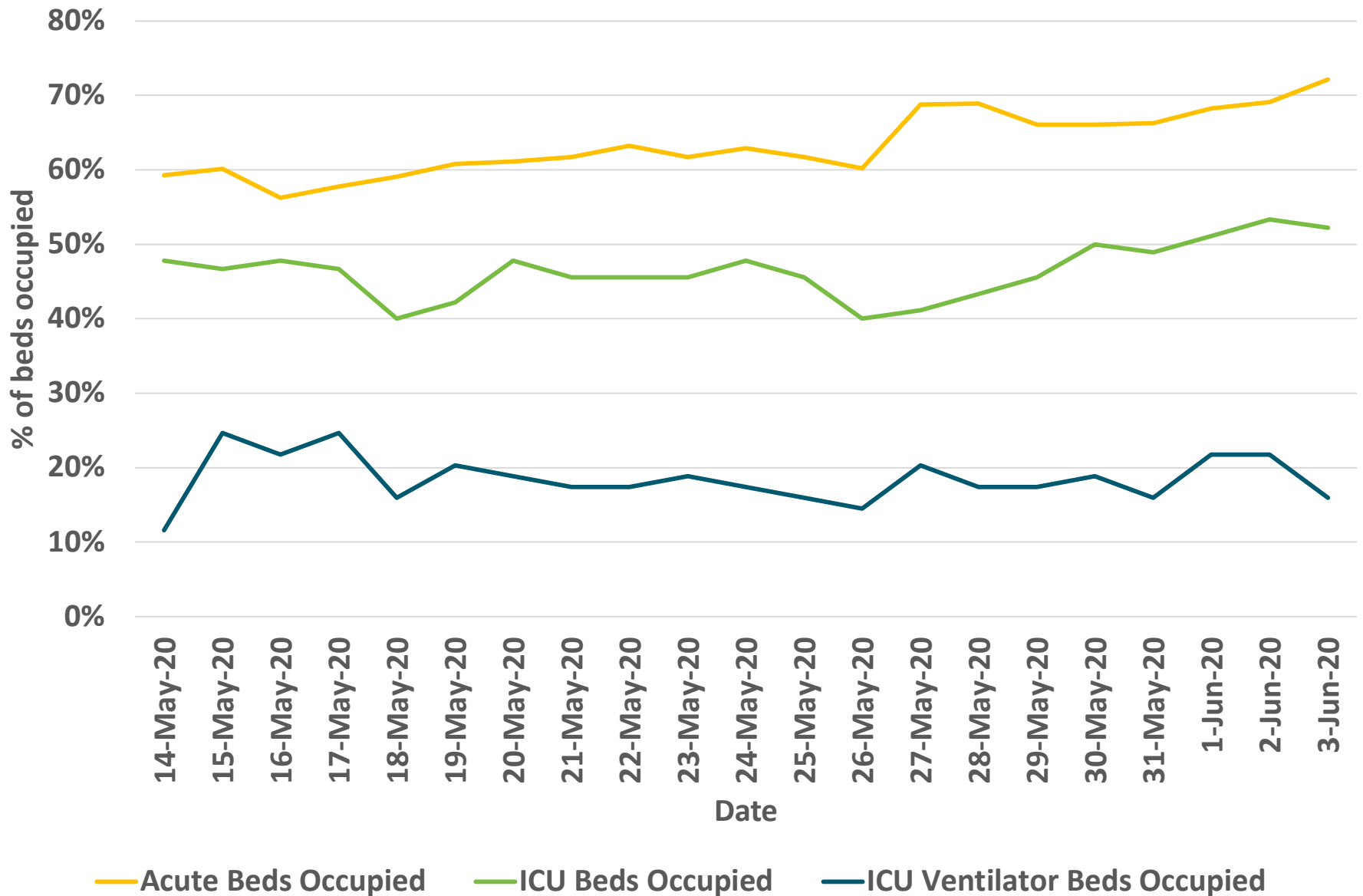


Hospitalizations & ICU for COVID-19



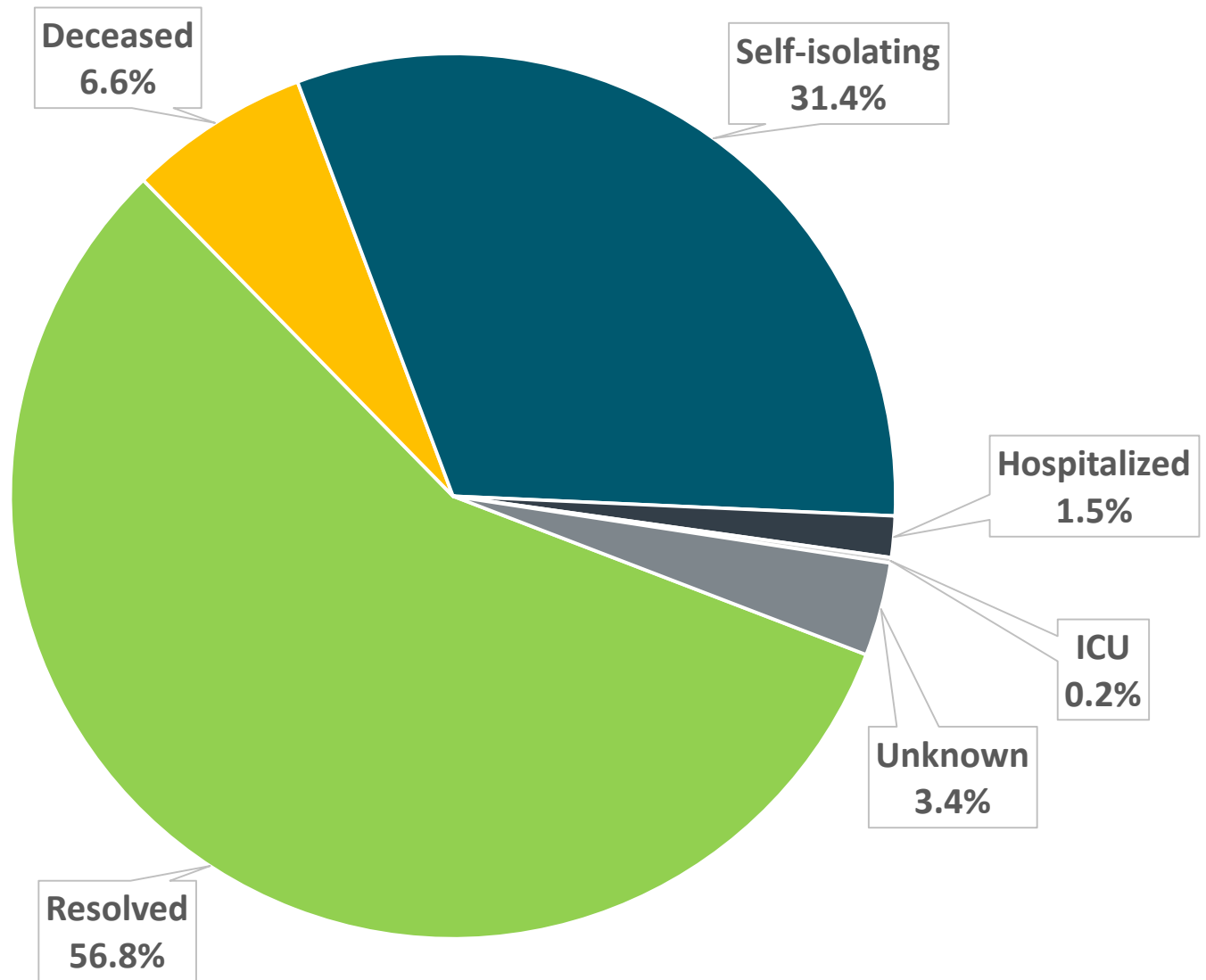
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Health Care System Capacity

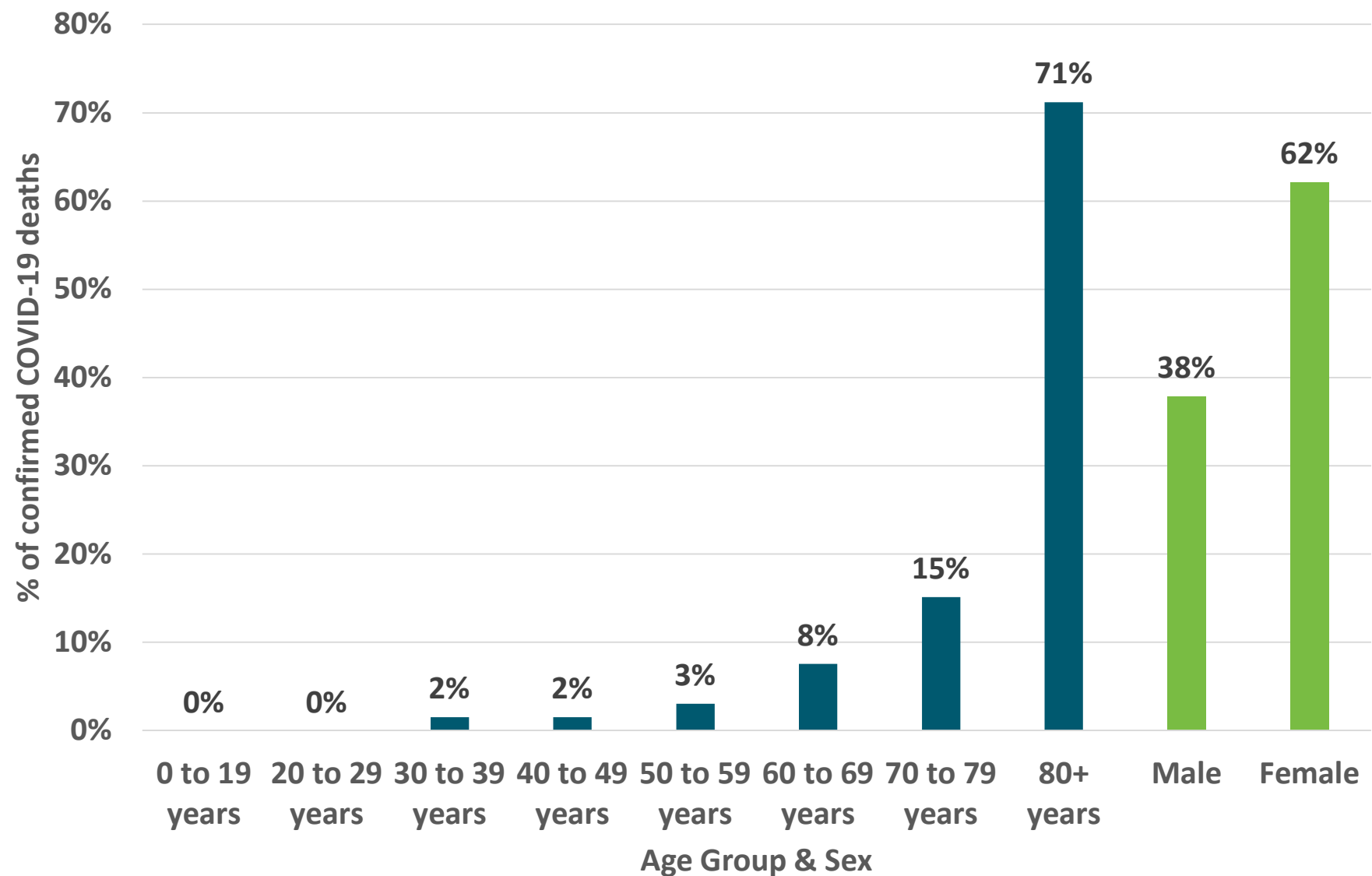


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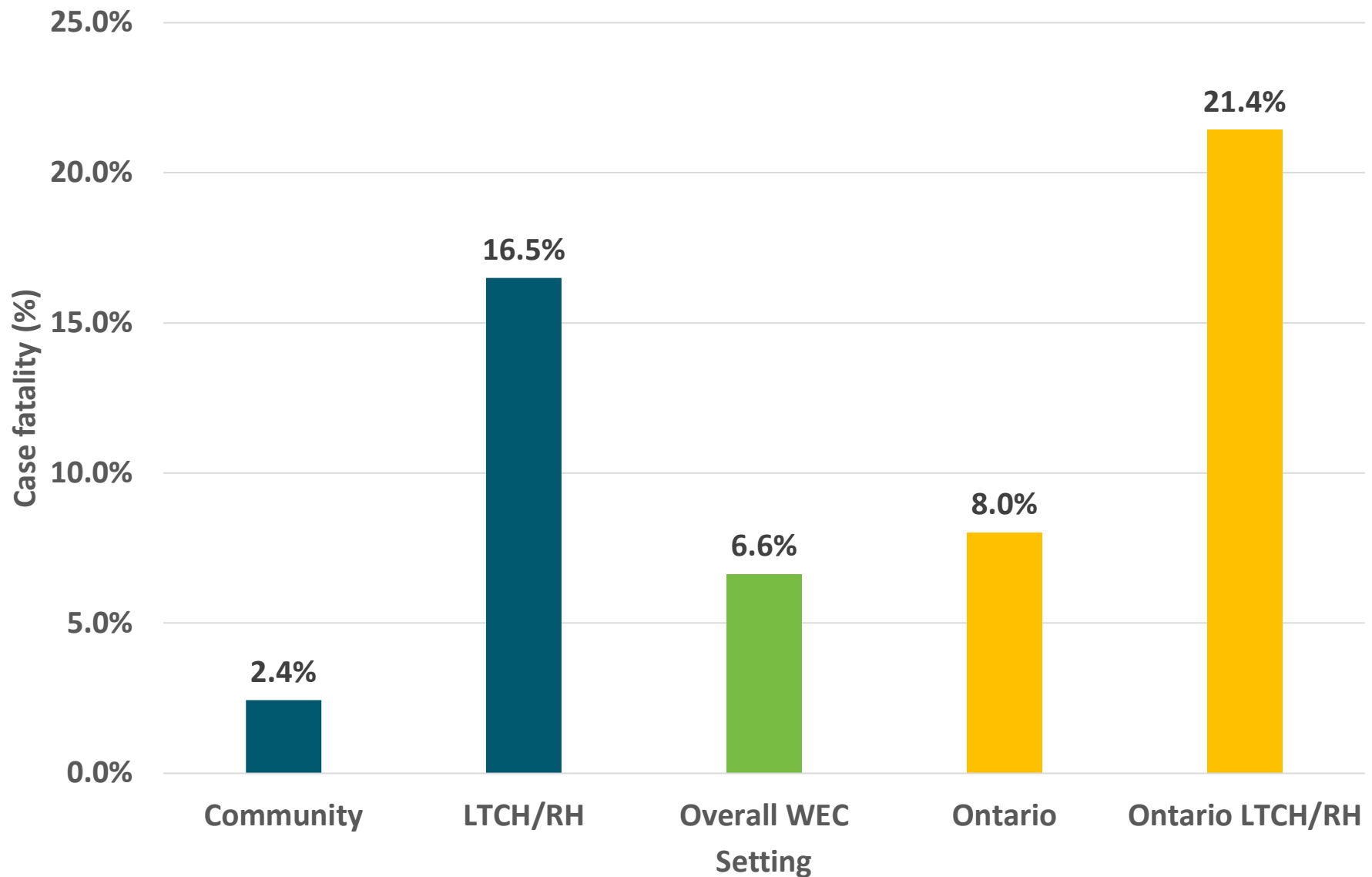
Current Outcomes



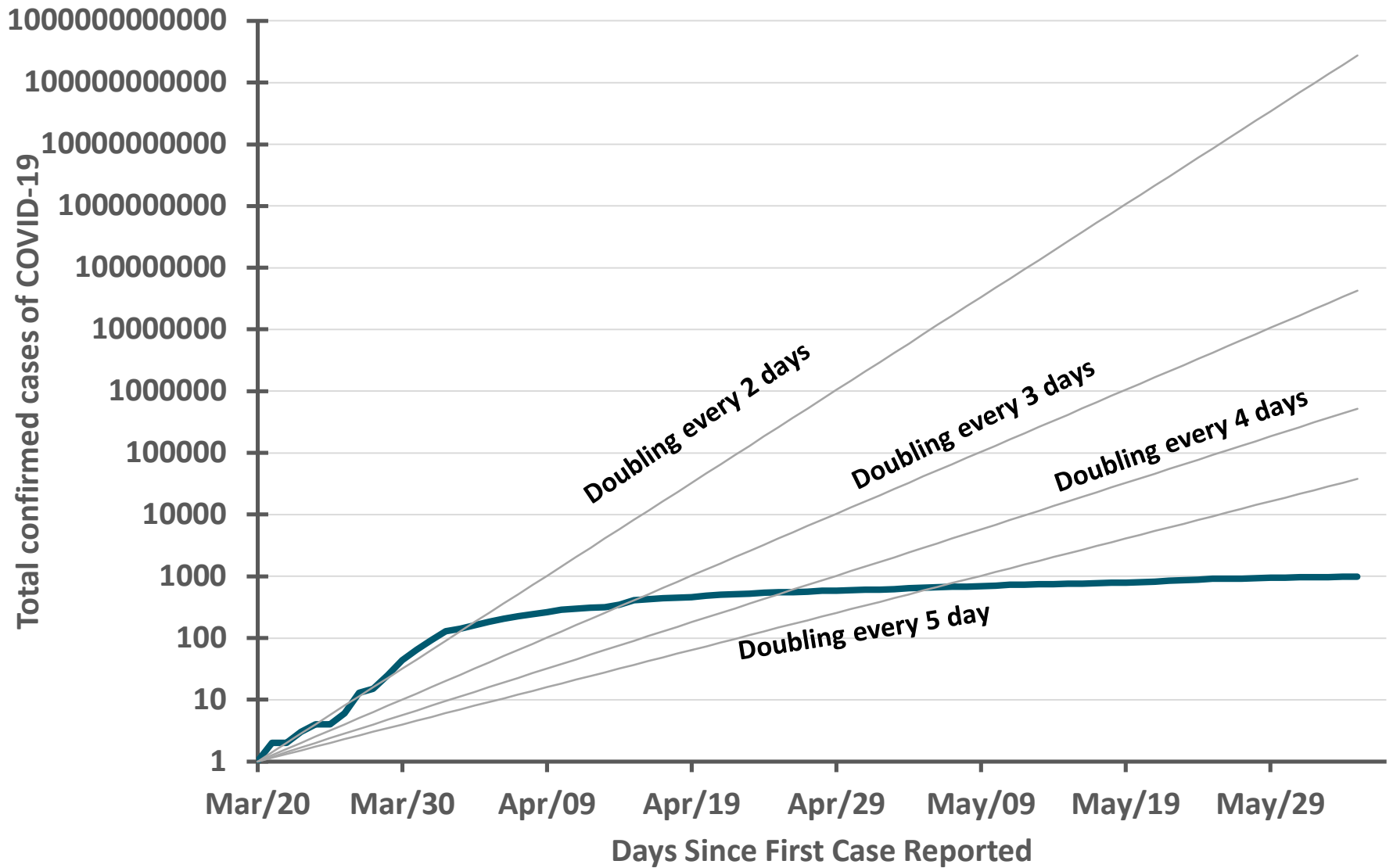
Age & Sex Breakdown of COVID-19 Deaths



Case Fatality Rate

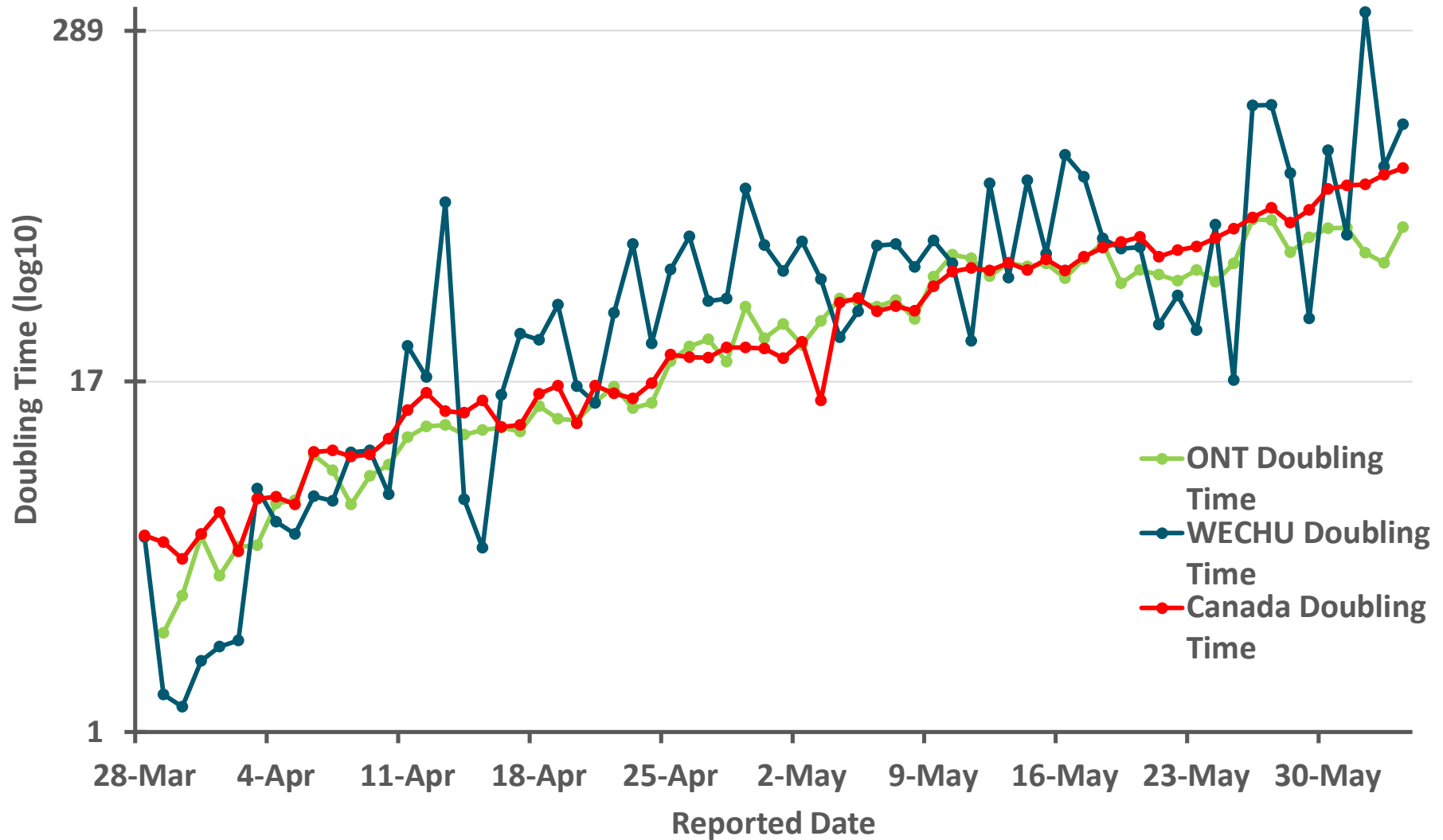


Doubling Time (Cumulative Comparison)

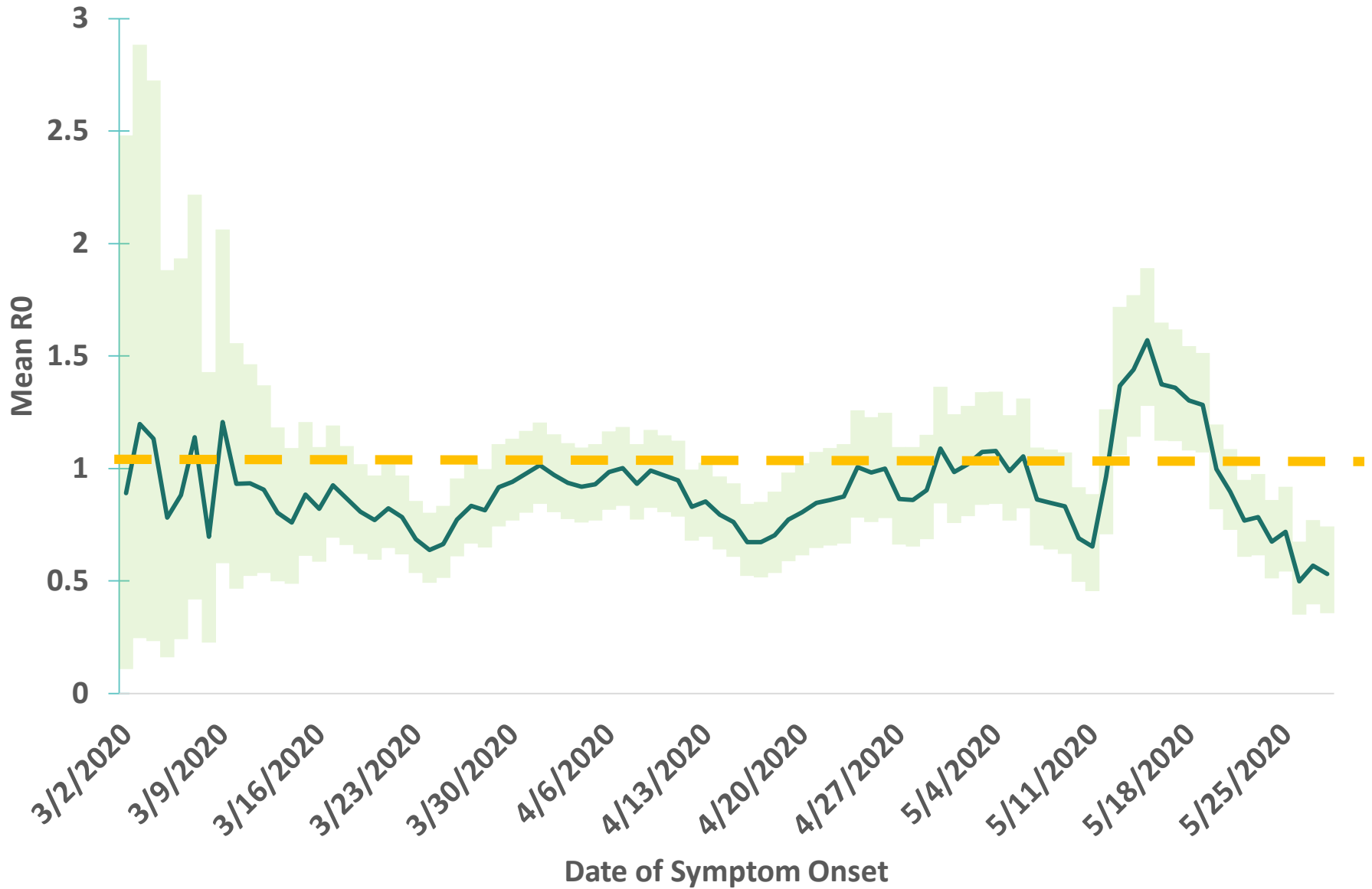


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Doubling Time (Day over Day Comparison)



Mean R0 (Effective)



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Summary

- Windsor-Essex continues to see a decline in case counts
- Windsor-Essex has the fourth 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 signalling a decline in the spread of COVID