

COVID-19 Windsor and Essex County: March 20, 2020 to June 19, 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 [2020/06/18].
- Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Windsor-Essex County Health Unit [2020/06/18].
- Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic Summary: COVID-19 in Ontario – January 15, 2020 to June 17, 2020). Toronto, ON: Queen's Printer for Ontario; 2020.

Highlights

- At the time of reporting, there are 1,244 confirmed cases of COVID-19 in WEC between March 20th and June 18th.
- Based on the 7-day moving average, WEC is seeing another peak in cases in June thus far. However, exclusion of agri-farm workers results in the 7-day moving average decreasing starting in early May.
- As of June 18th, there were 300 cases in long-term care and retirement homes (including staff and residents) and 374 cases among agri-farm workers.
- Windsor and Essex County has the 4th highest incidence rate in the province and is higher than the Ontario rate.
- In the last two weeks, 81% of the cases reported were among males and 19% were among females.
 - 66% of the cases during this time period were among adults 20 to 39 years of age.
- Overall, approximately 44% of the cases reside in the City of Windsor, 14% in Kingsville and another 30% in Leamington.
 - In the past 30 days, however, 63% of the cases have been from Leamington and 21% from Kingsville
 - In the past 7 days, however, 51% of the cases have been from Leamington and 35% from Kingsville
- The majority of cases identified are due to close contacts with individuals that were positive for COVID-19.
- Approximately 32% of current cases have a known chronic condition, an underlying condition or are immunocompromised.
- Coughing (71%) was the most commonly reported symptom among cases with COVID-19 reporting any symptoms followed by fever (51%), malaise (47%) and fatigue (46%).

- COVID-19 cases that are hospitalized have declined sharply in the past two week while ICU cases have stabilized to one COVID case since late May
- Approximately 35% of cases are still in self-isolation while 58% of cases have resolved.
- The overall case fatality rate in WEC is 5.4%, lower than the province (7.8%).
- Random testing of 4,916 residents have yielded only eight positive results.
 - This is a percent positivity of 0.2%.
- The day-over-day doubling time has been trending positively in Canada and in Ontario. In Windsor-Essex, due to the high number of cases this week our doubling time has been negatively impacted.
- The mean R_0 (effective) value is 0.62 and has decreased from last week. However, for the past two weeks we have seen fluctuations with this number.



COVID-19 *LIVE UPDATE*

June 19, 2020

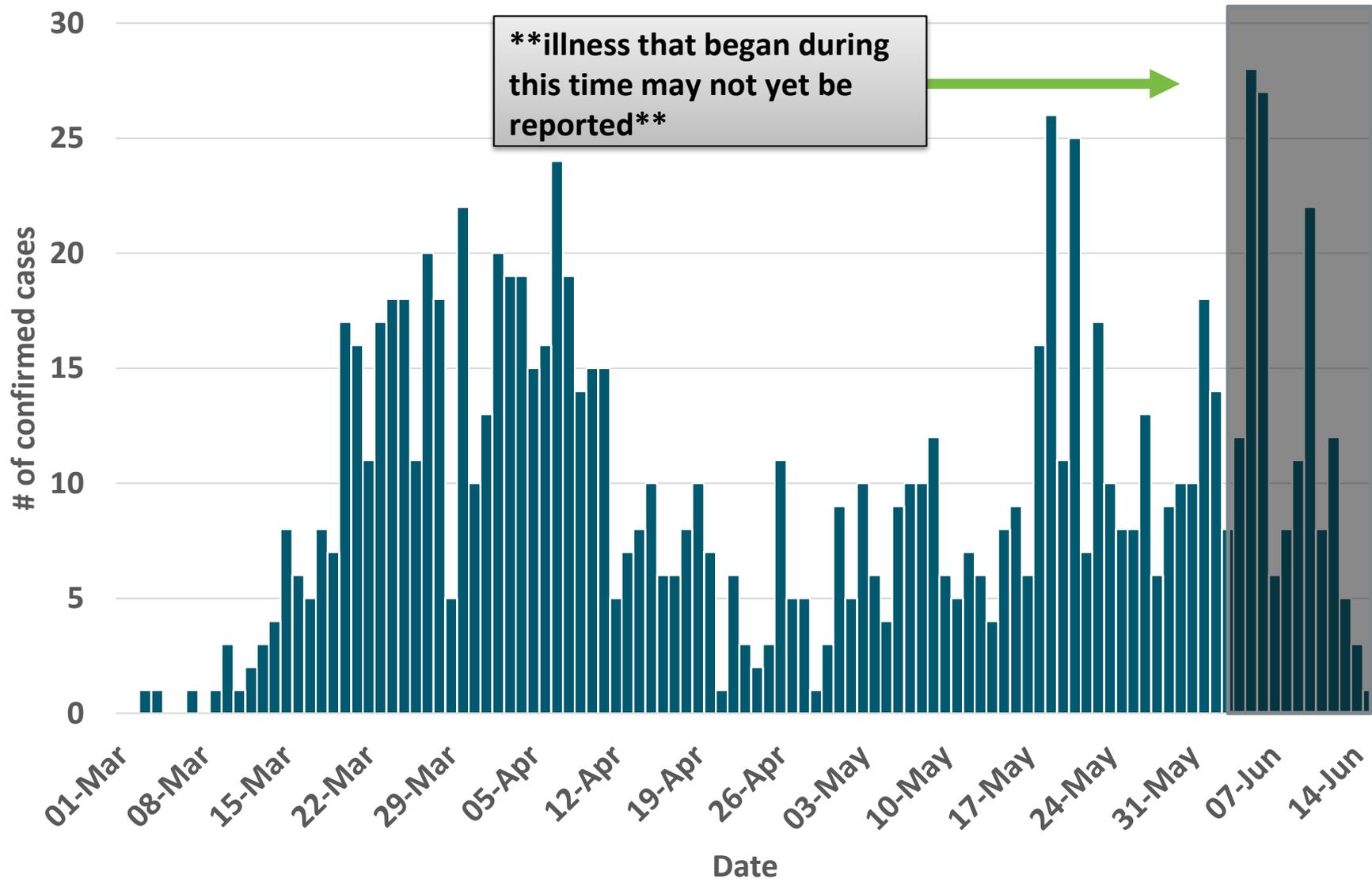
FOR UP-TO-DATE
CASE NUMBERS
VISIT
wechu.org

COVID-19 Epidemiological Summary

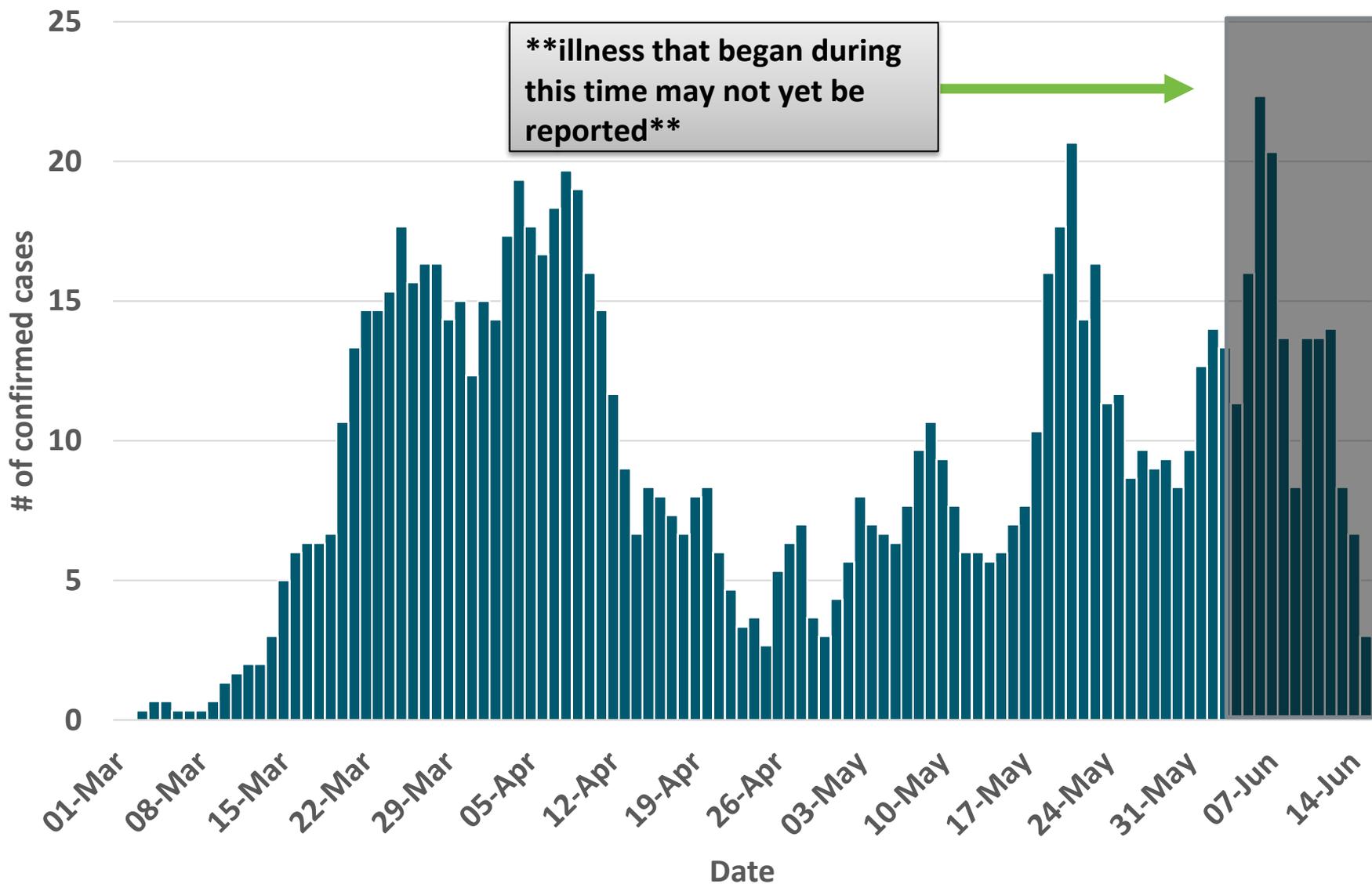
Content covered:

- 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)

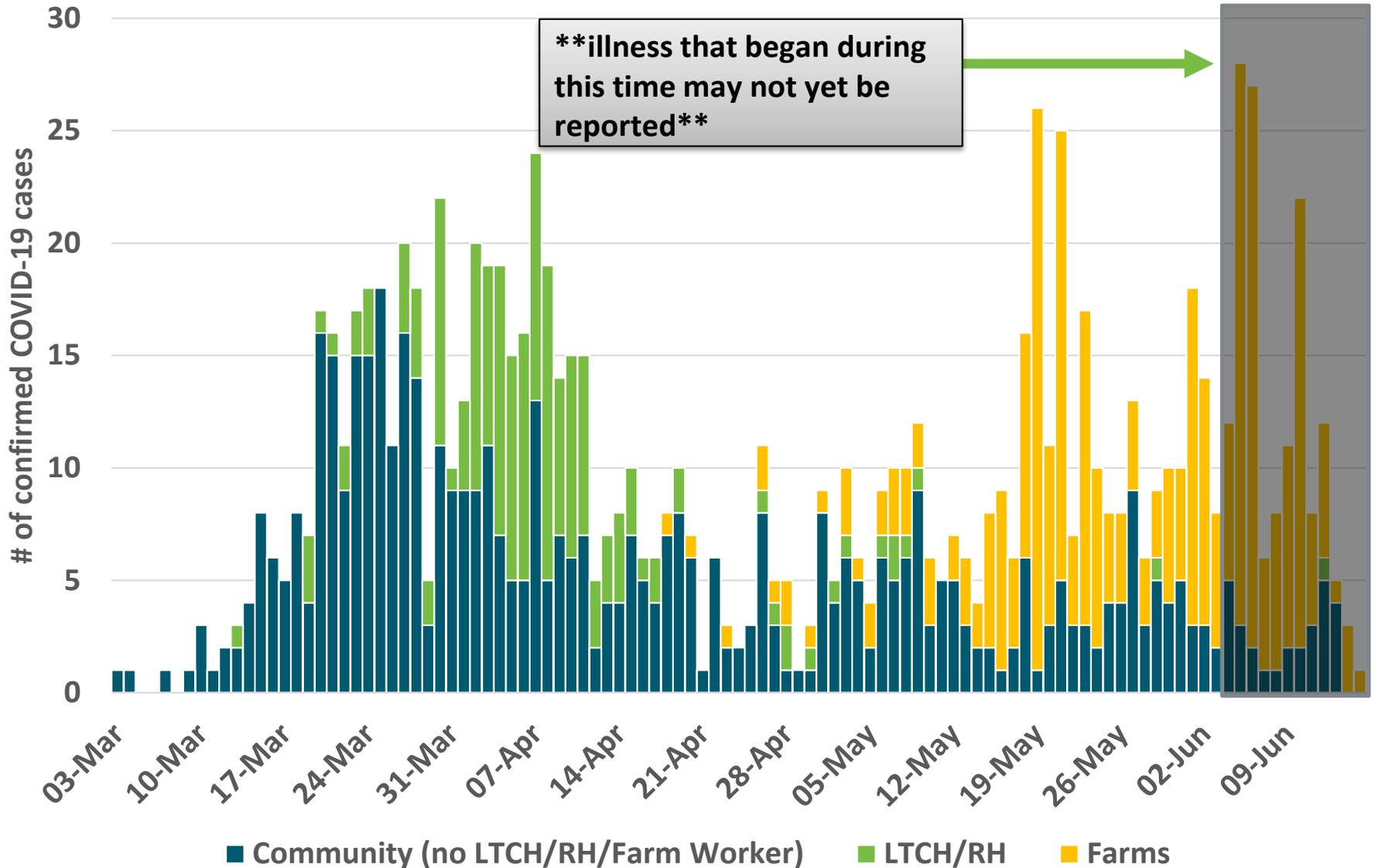
Epidemic Curve by Symptom Onset Date



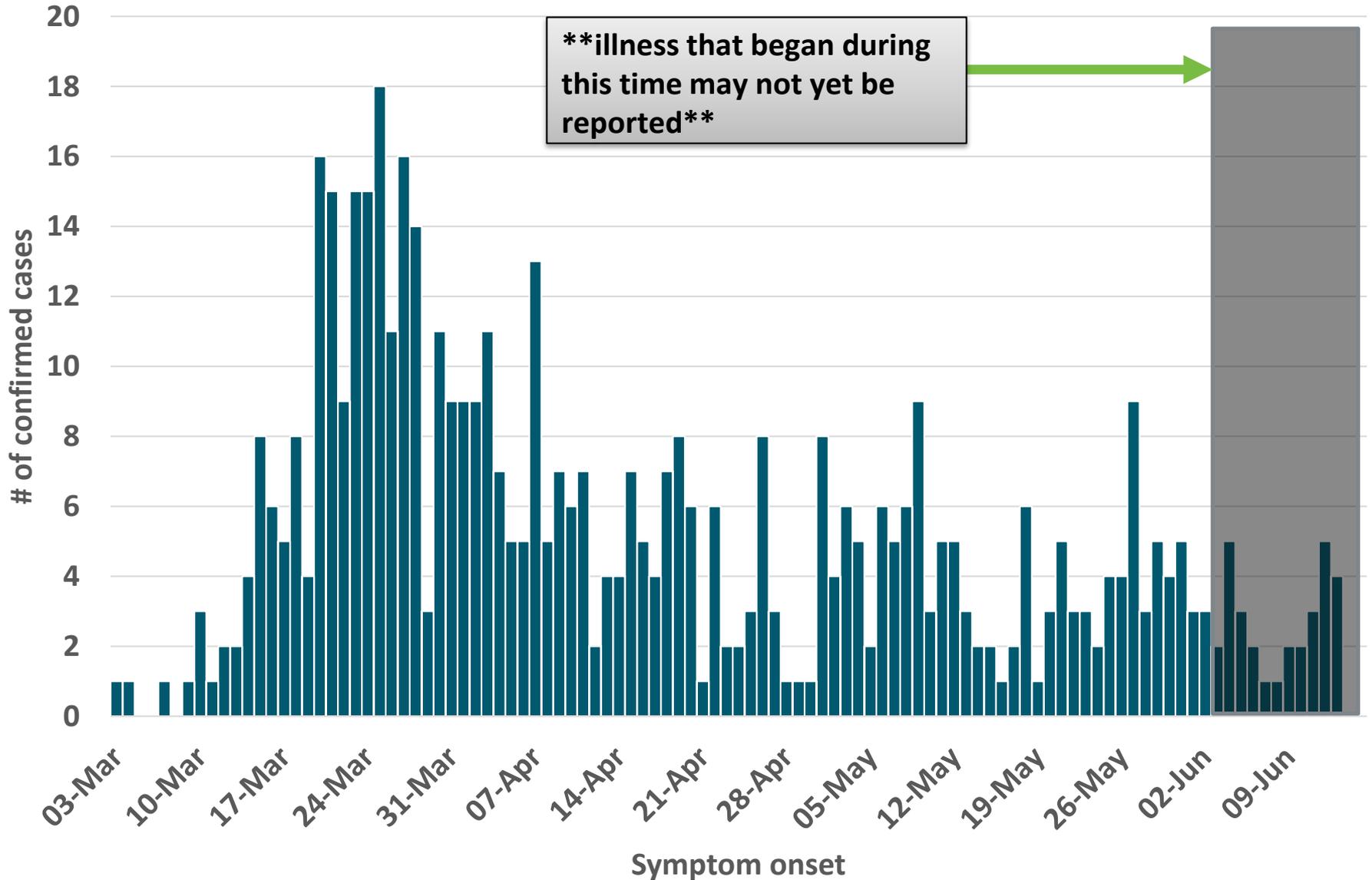
Epidemic Curve by 3-Day Moving Average by Symptom Onset



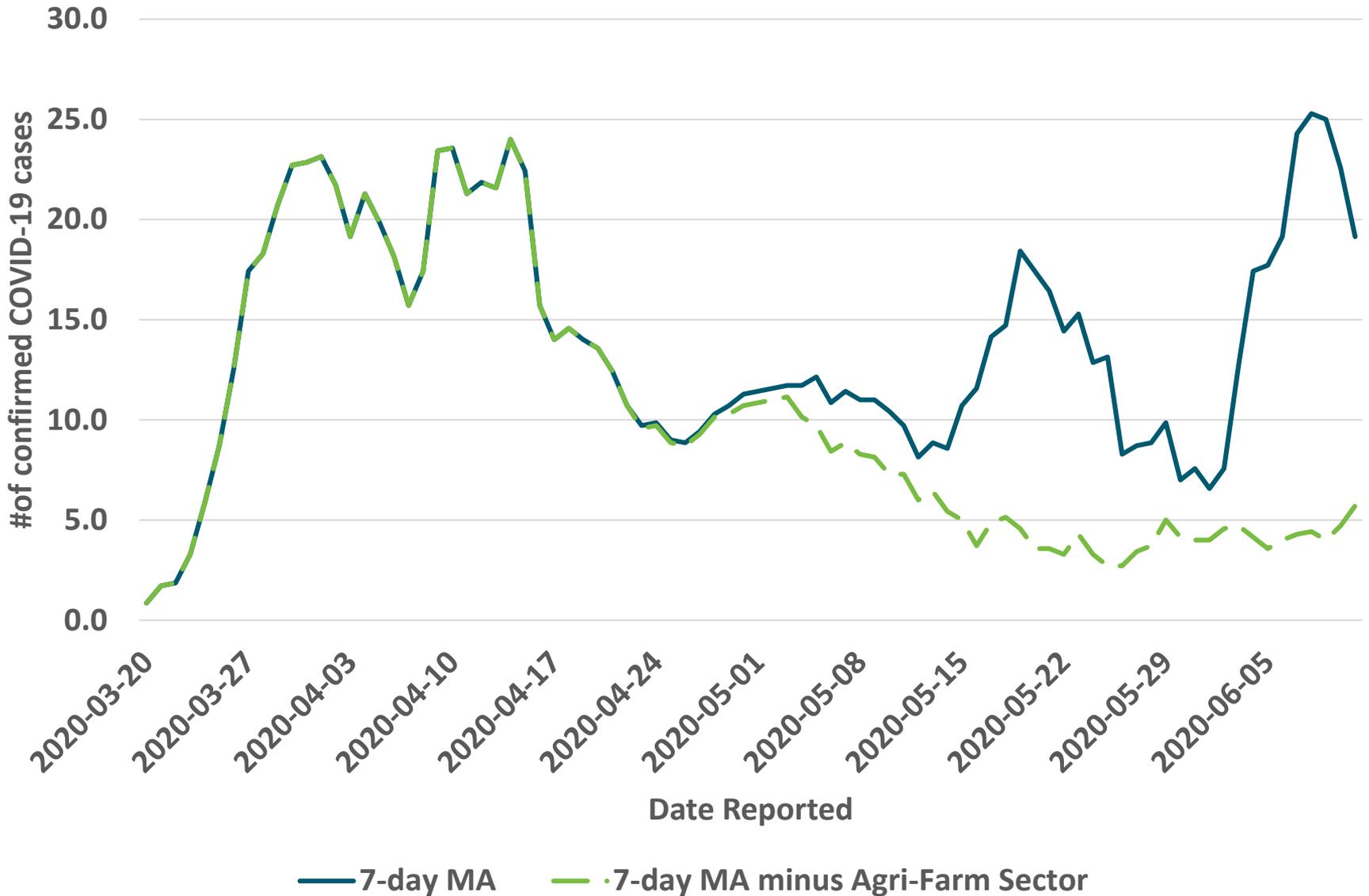
Epidemic Curve by Community vs. LTCH/RH vs. Agri-Farms by Symptom Onset



Epidemic Curve by Community and Symptom Onset (no LTCH/RH or Agri-Farm)

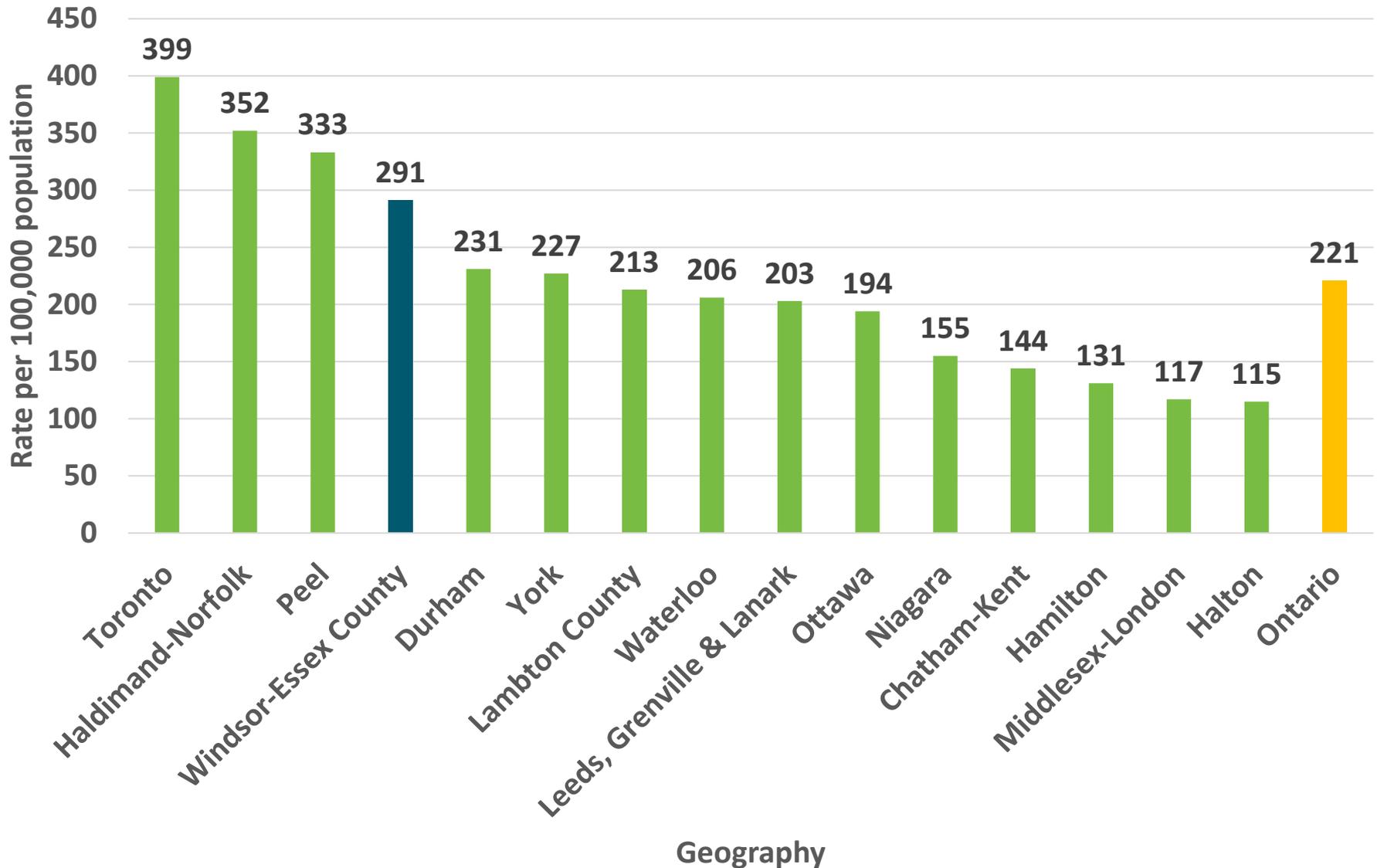


7-Day Moving Average by Reported Date

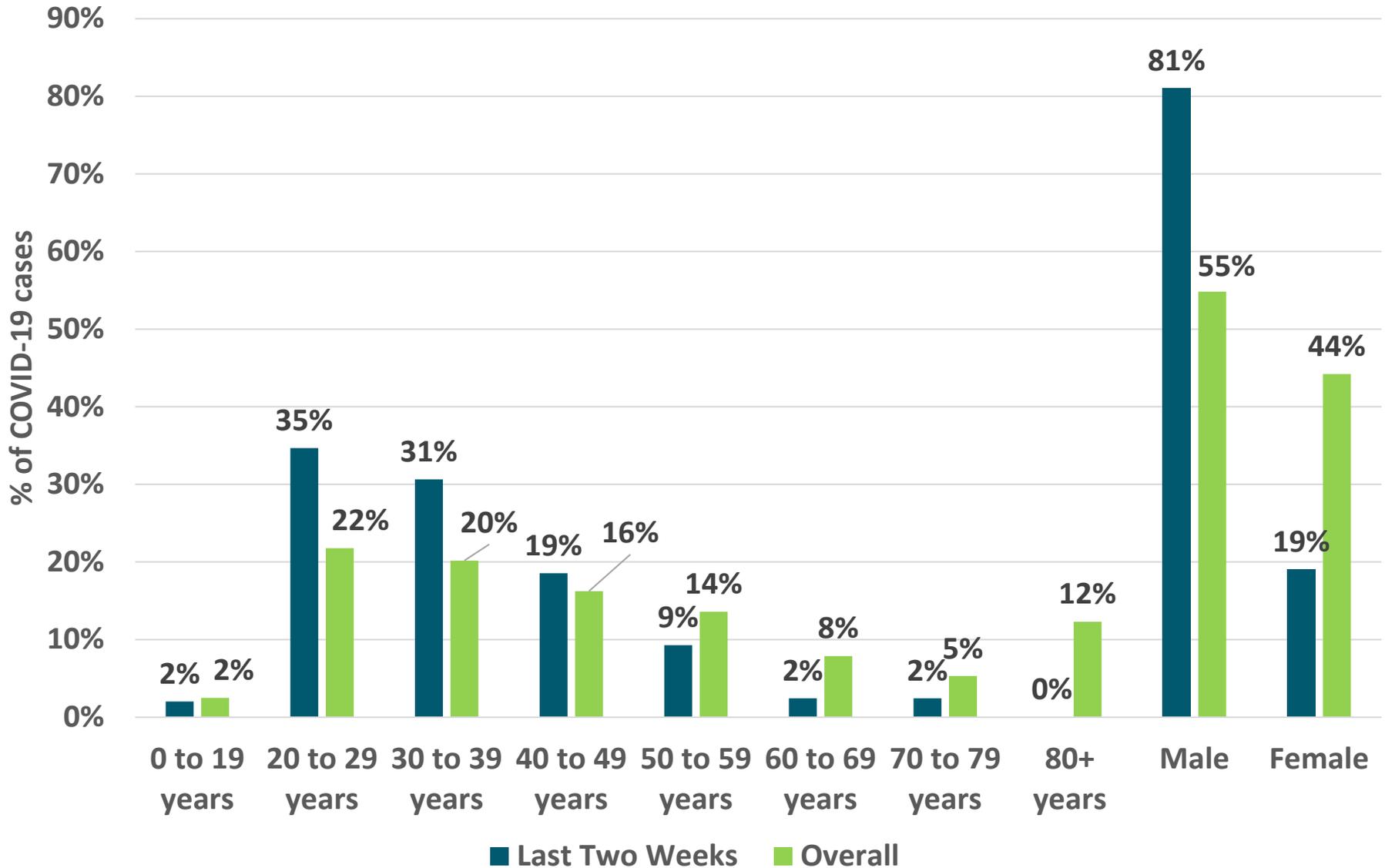


2020-06-22

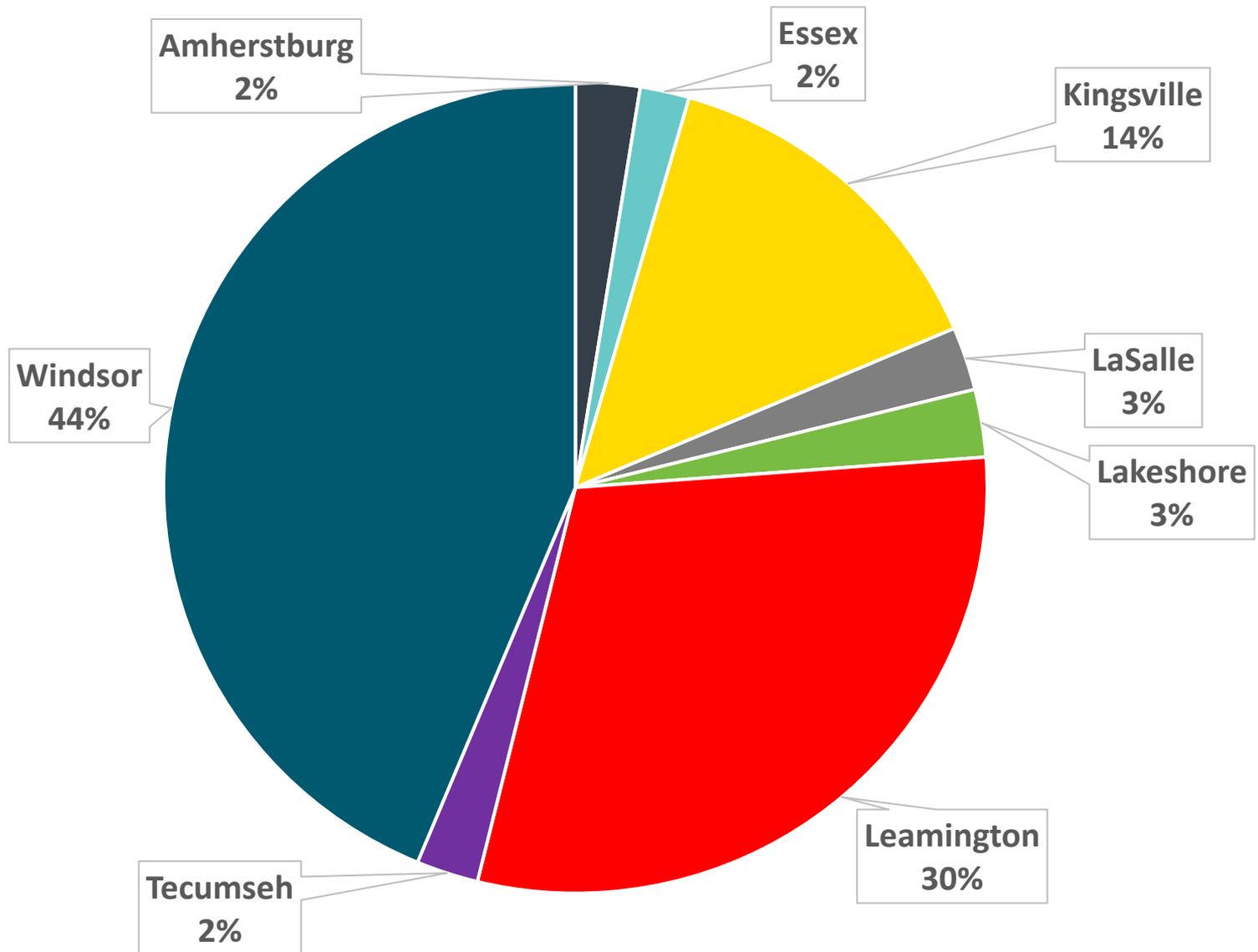
Regional & Provincial Rates



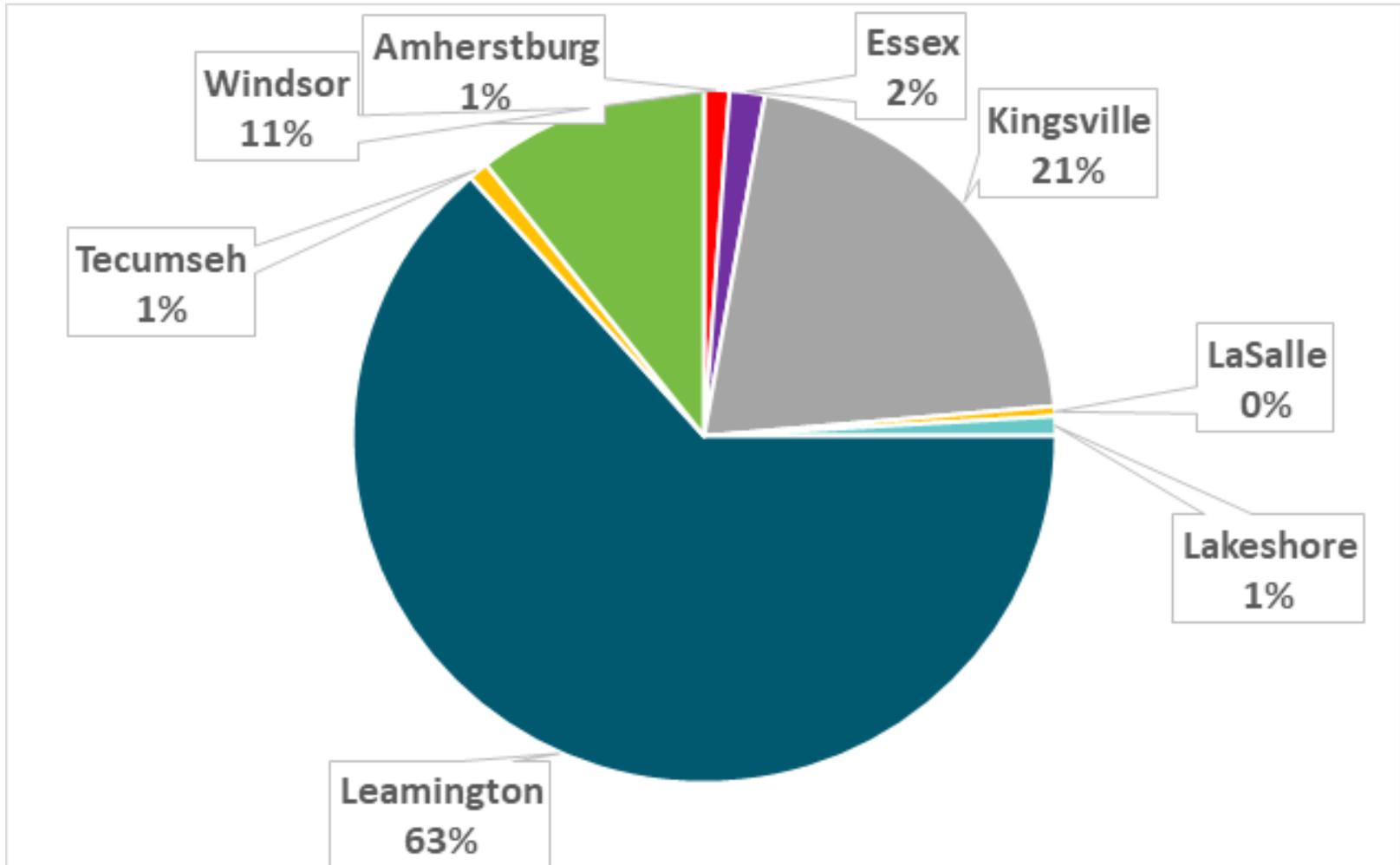
Age & Sex Distribution



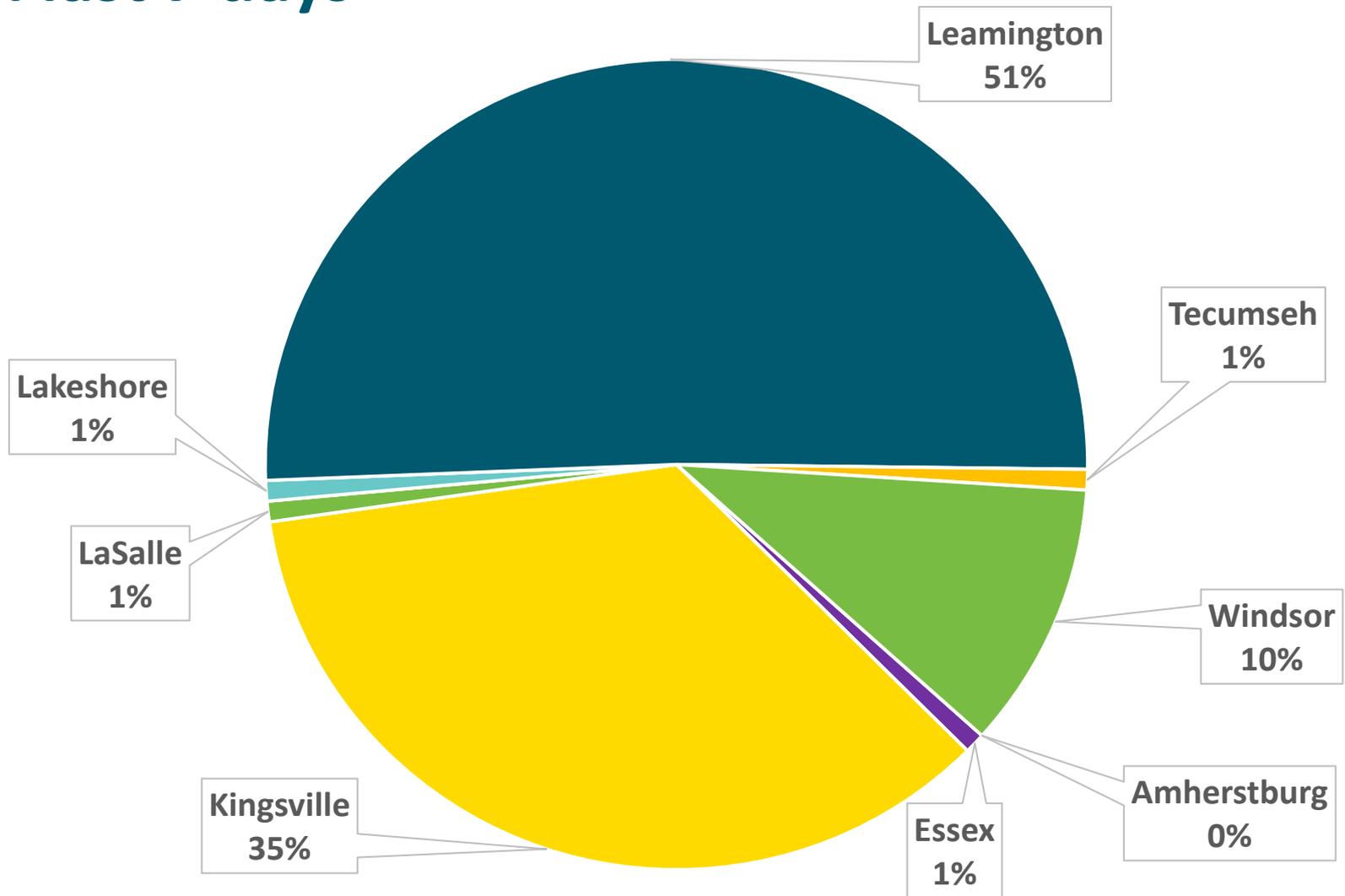
Distribution of COVID-19 Cases by Municipality



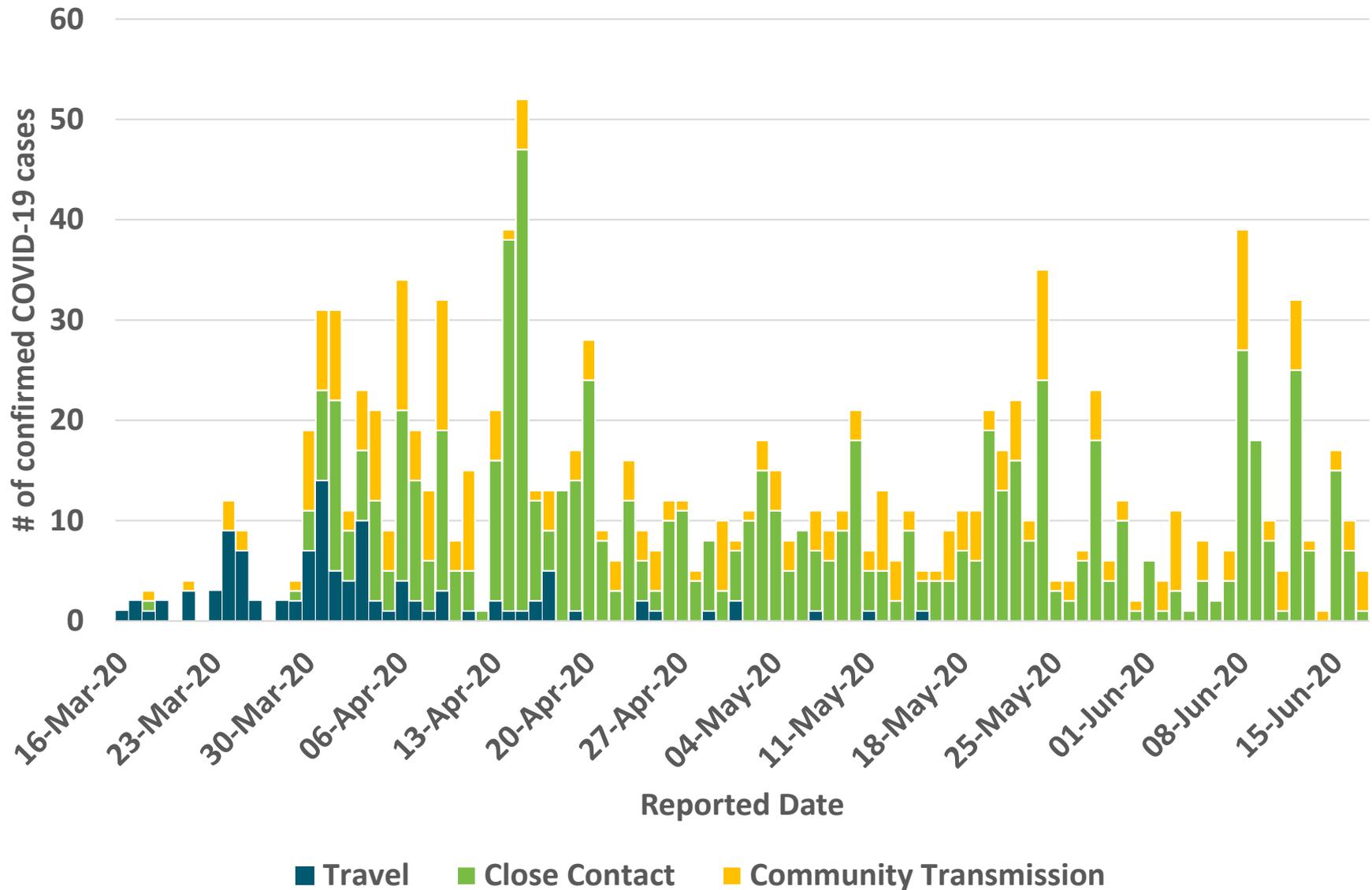
Distribution of COVID-19 cases by Municipality in the last 30 days



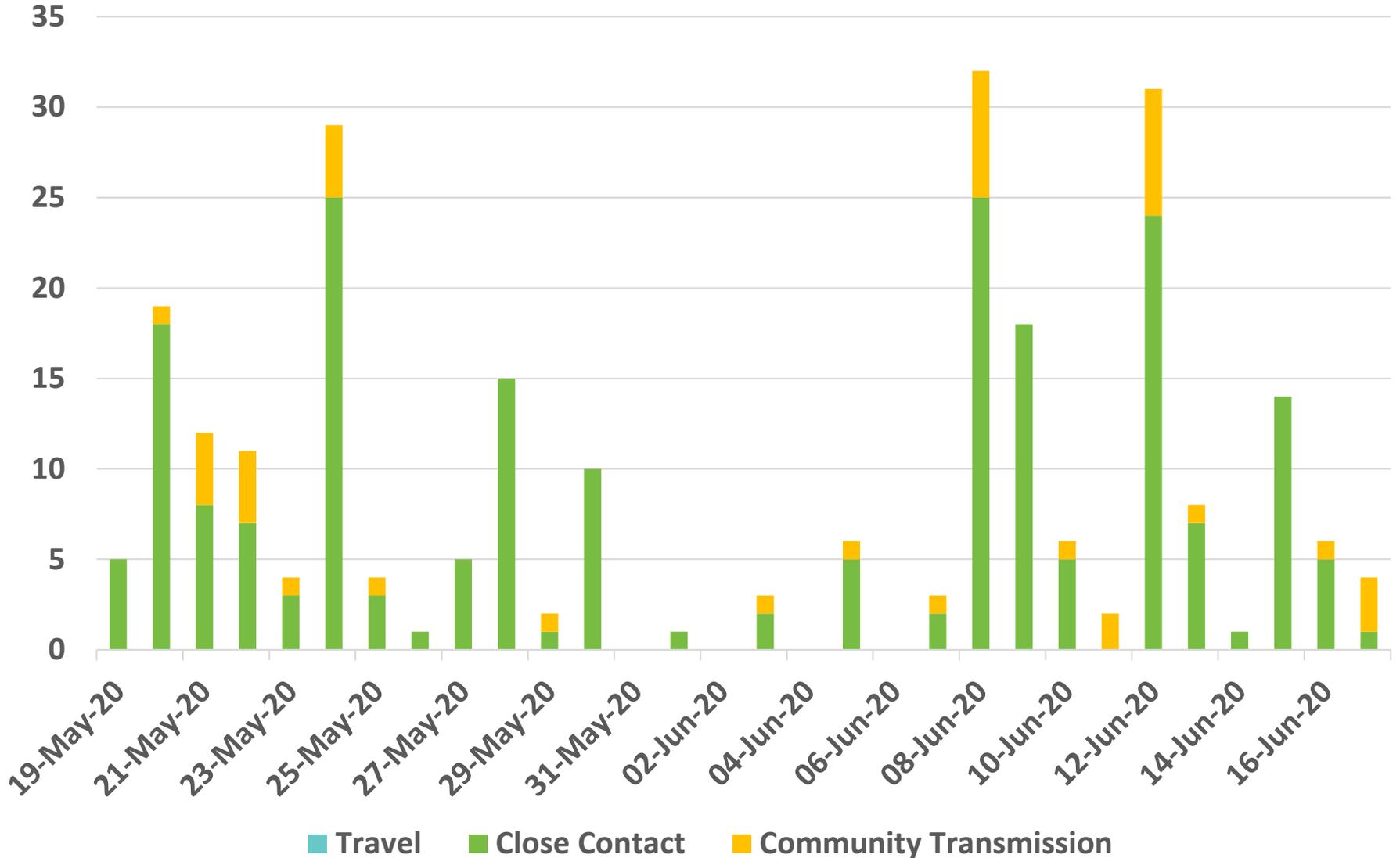
Distribution of COVID-19 Cases by Municipality in last 7 days



Exposure History by Reported Date

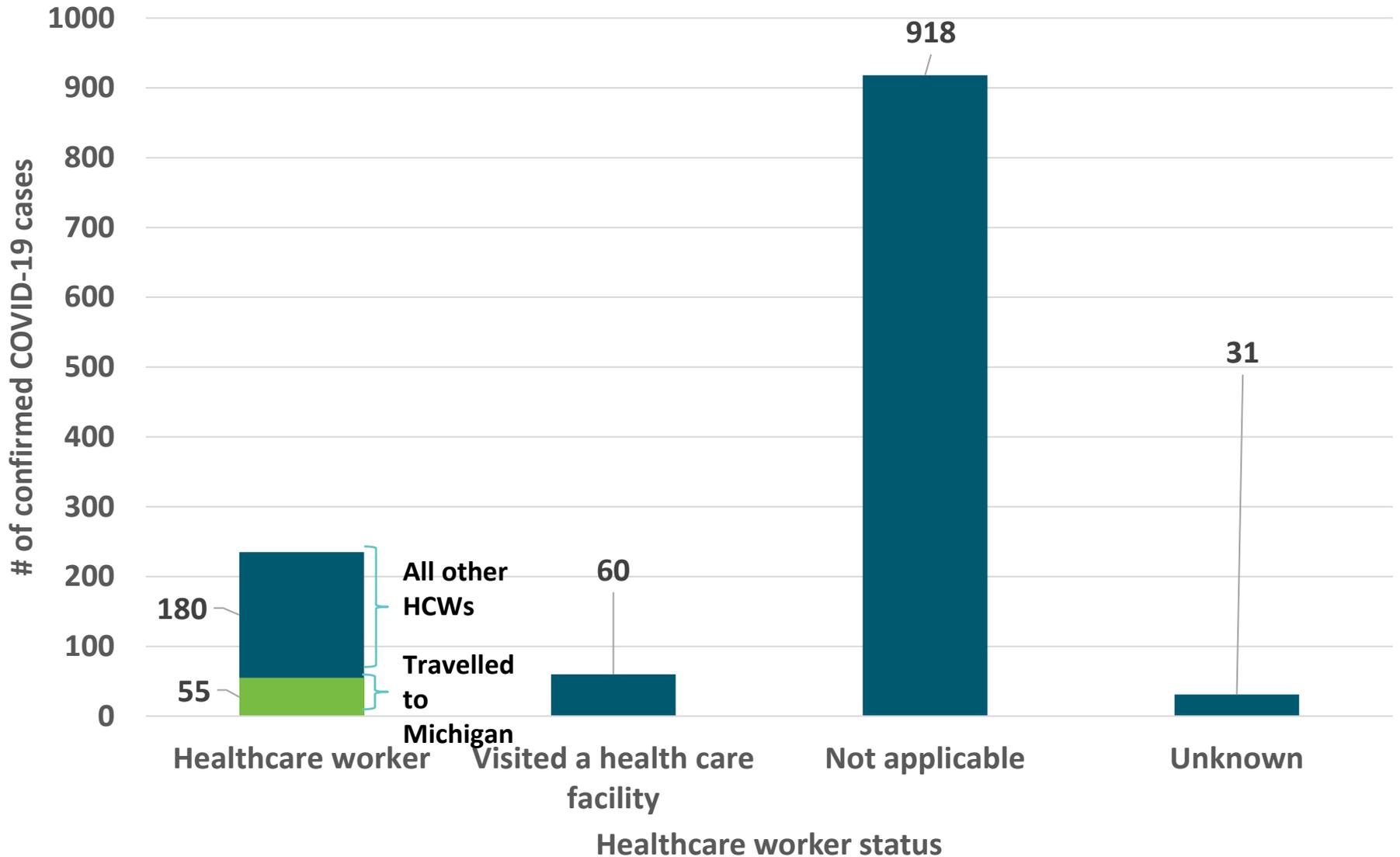


Exposure History by Reported Date Among Agri-Farm Workers in the past 30 days

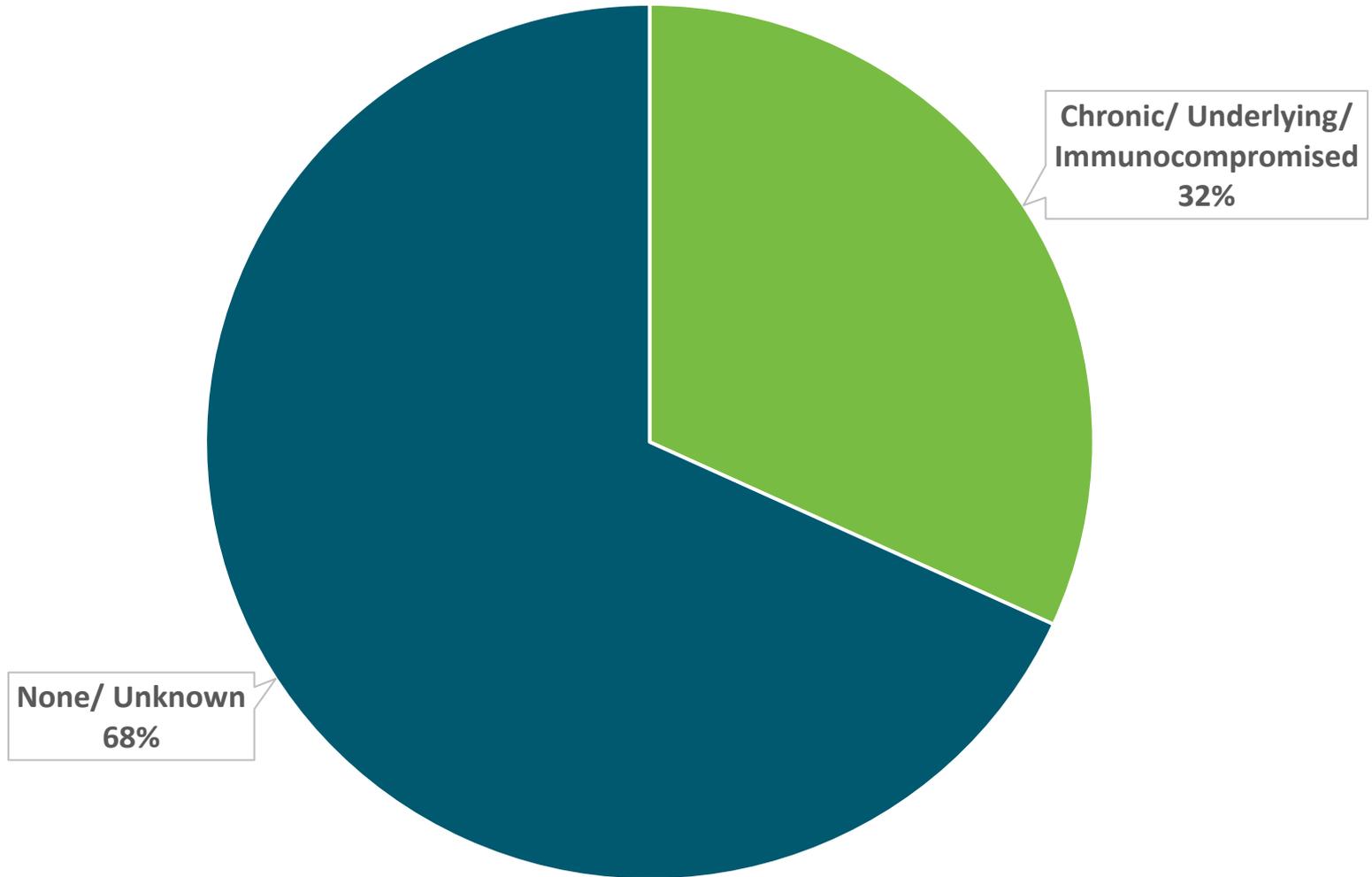


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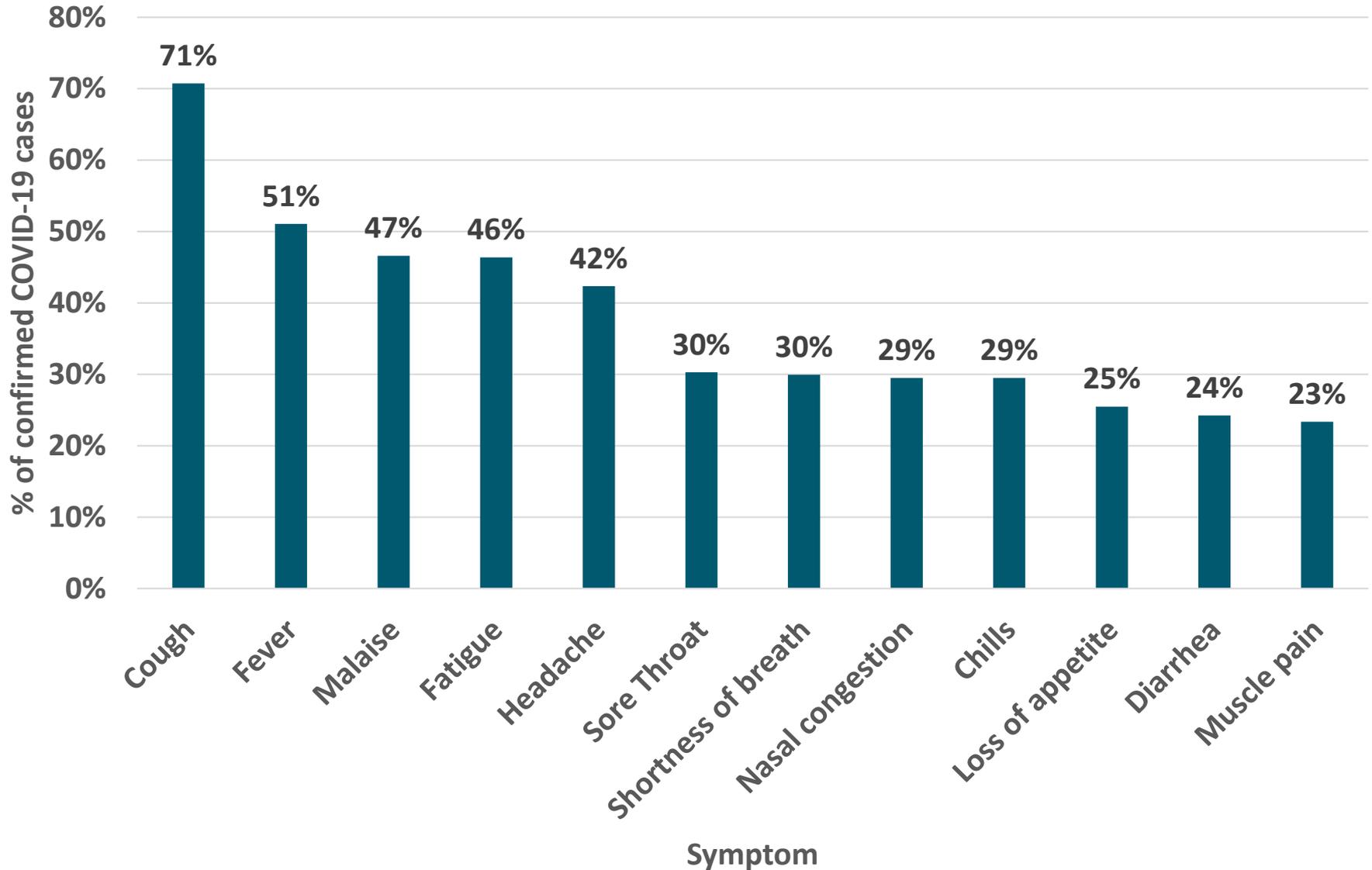
COVID-19 Cases by Healthcare Worker



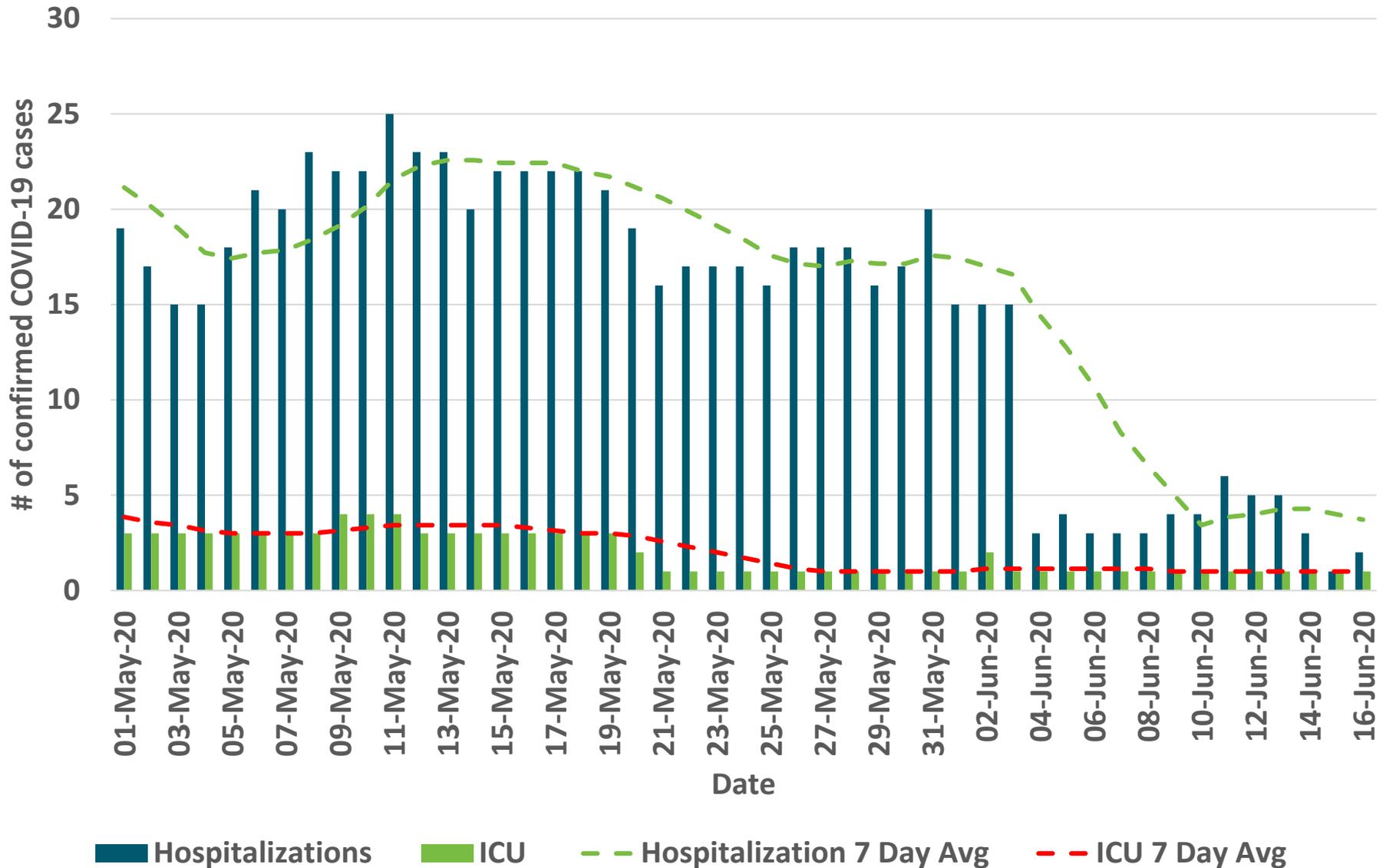
Underlying Health Conditions



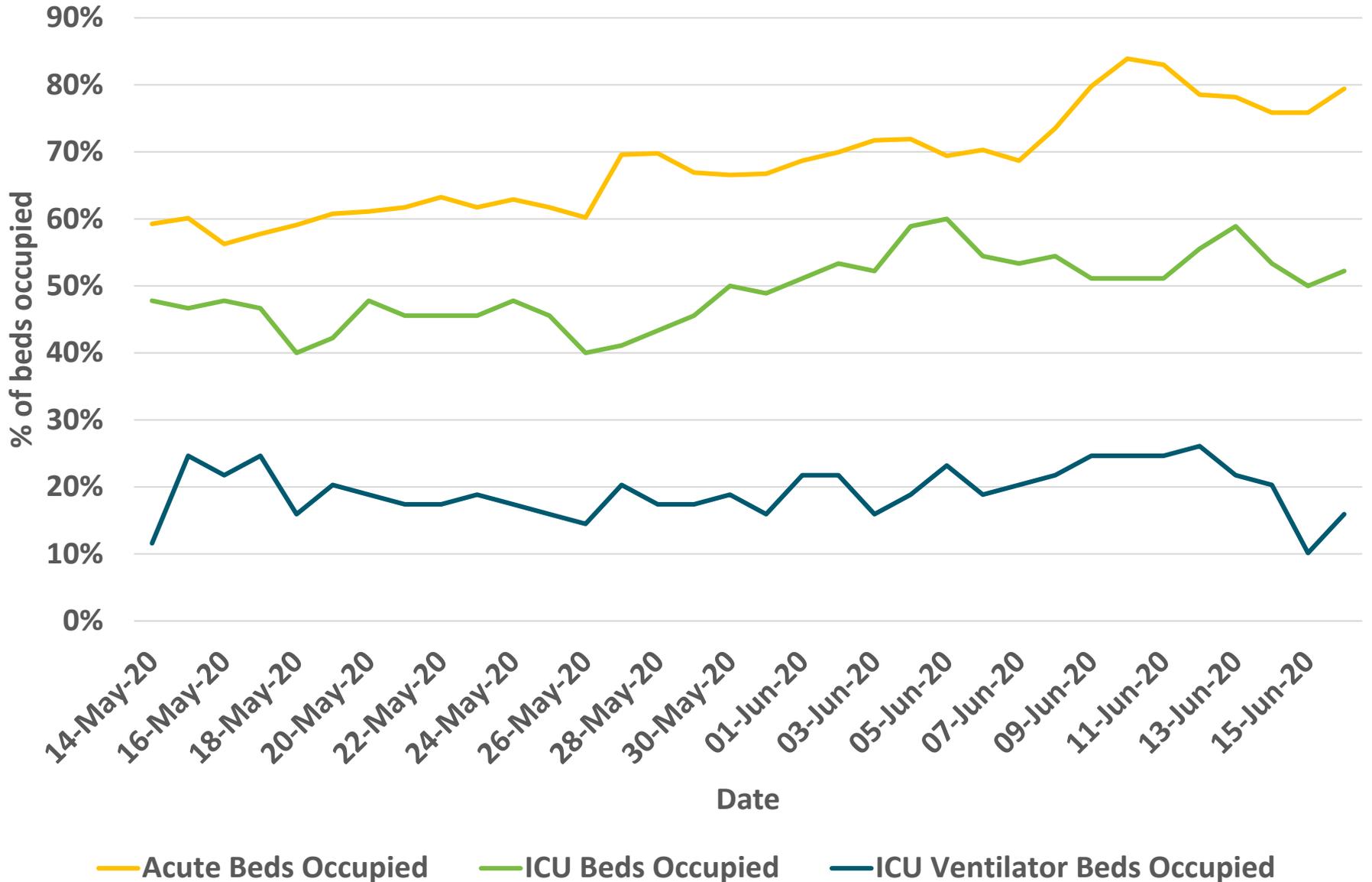
Most Common Symptoms



Hospitalizations & ICU for COVID-19

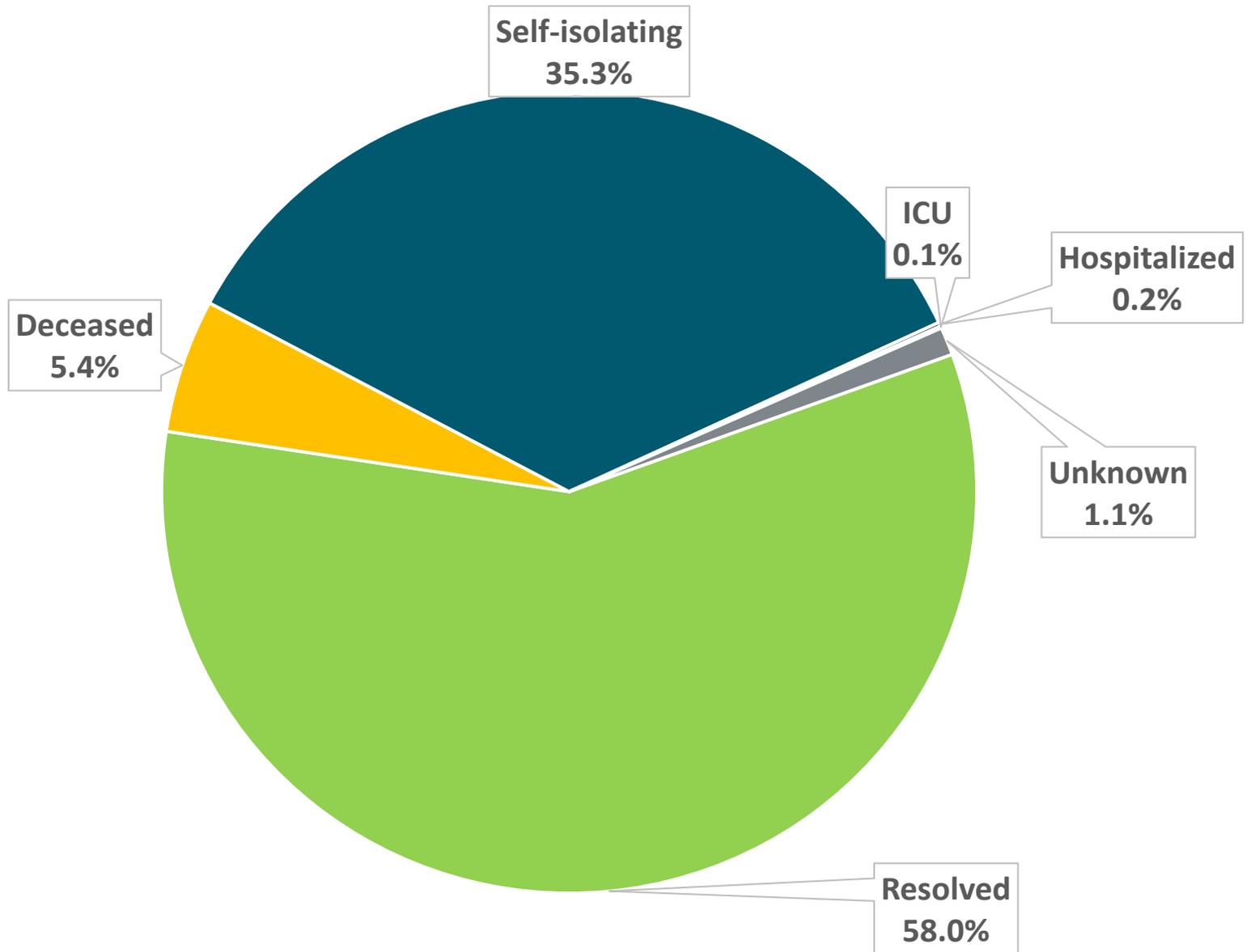


Health Care System Capacity

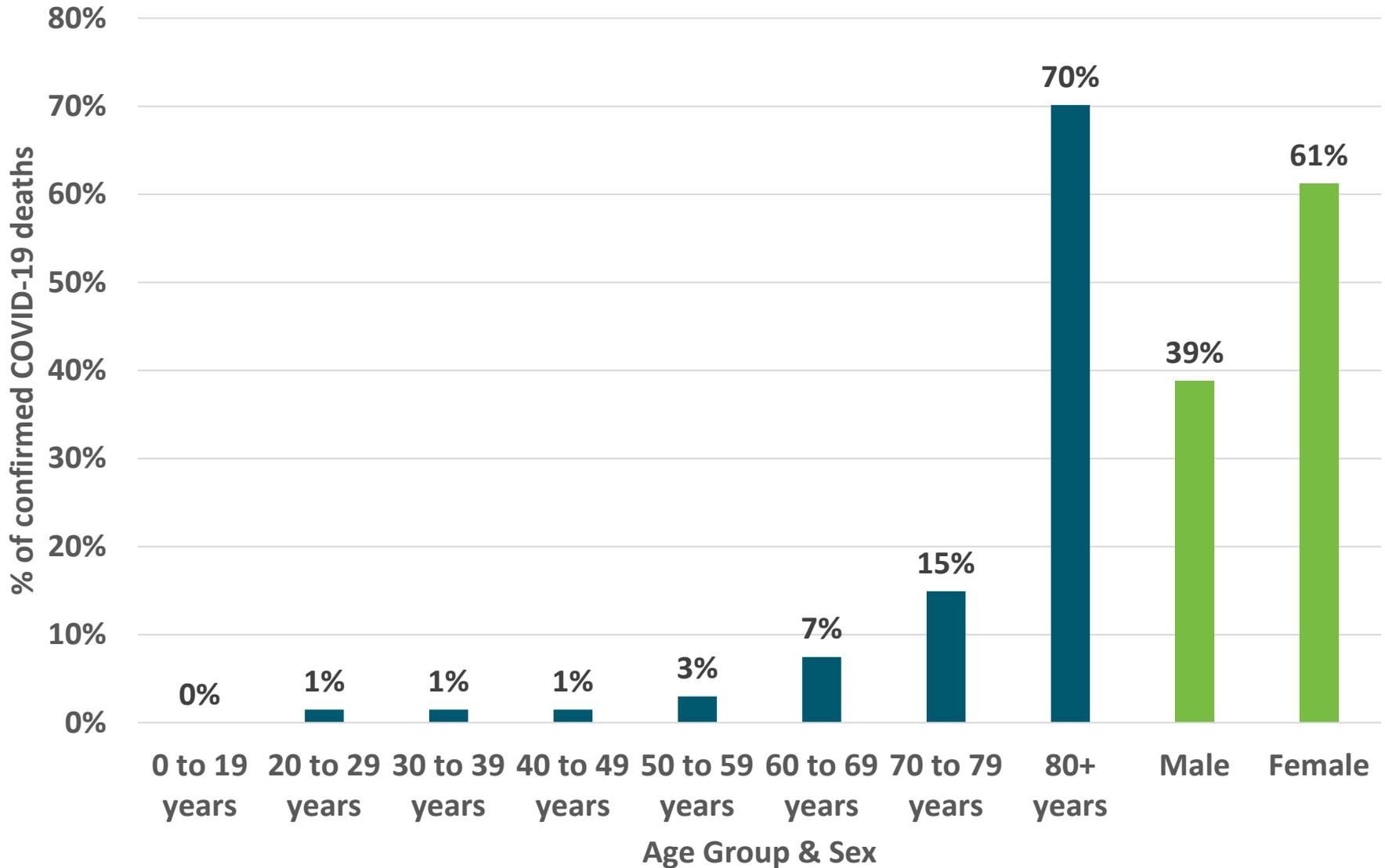


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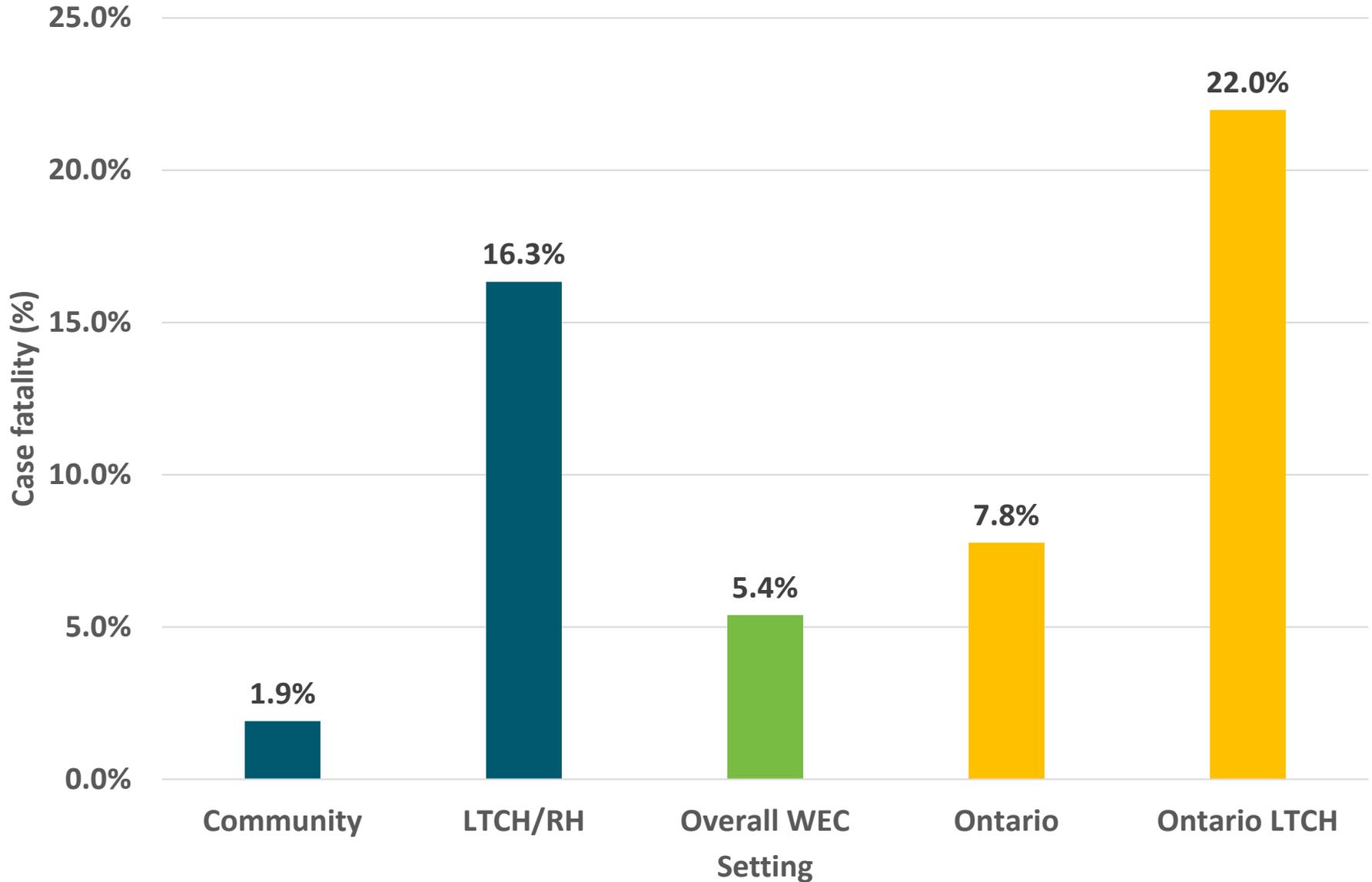
Current Outcomes



Age & Sex Breakdown of COVID-19 Deaths



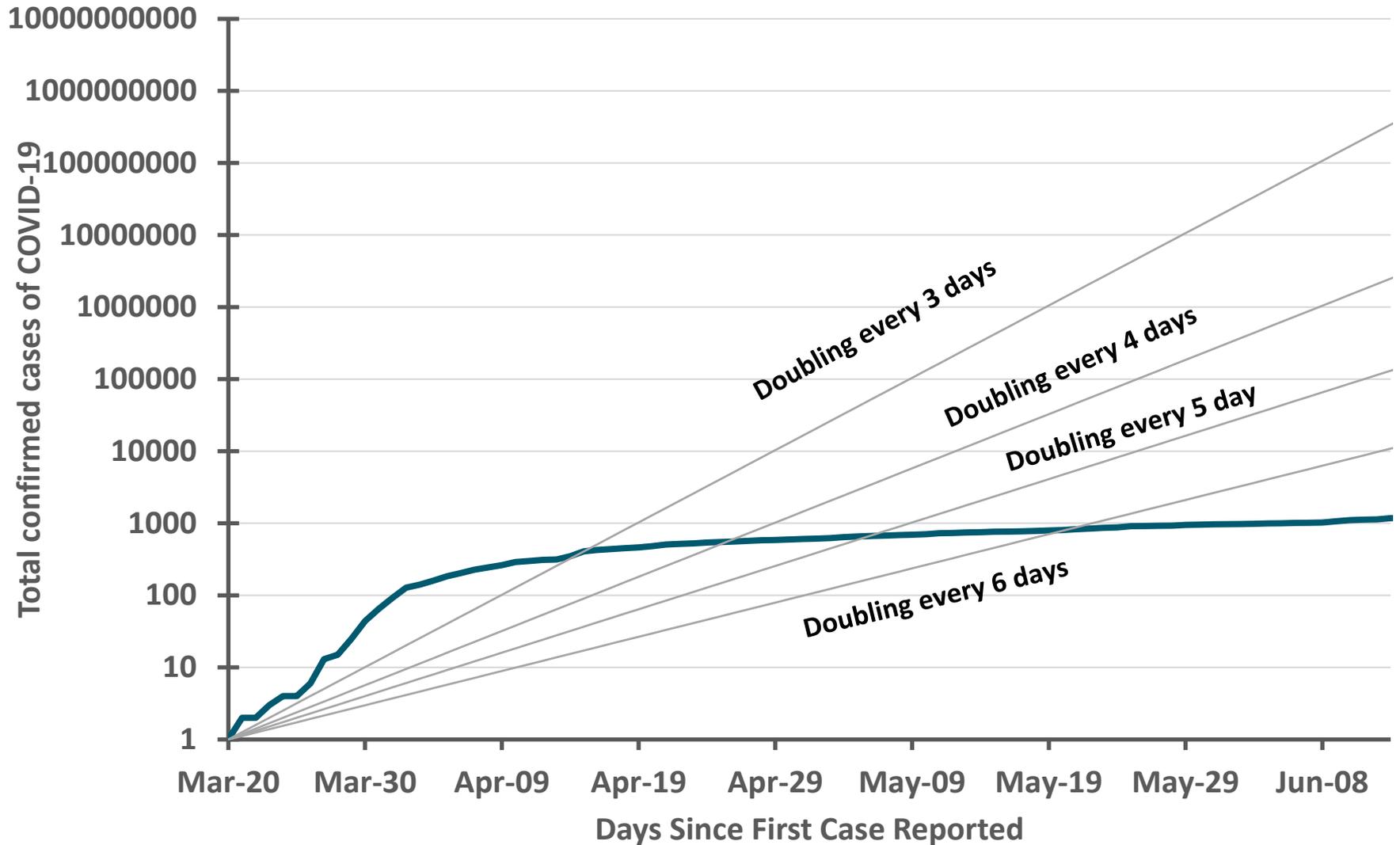
Case Fatality Rate



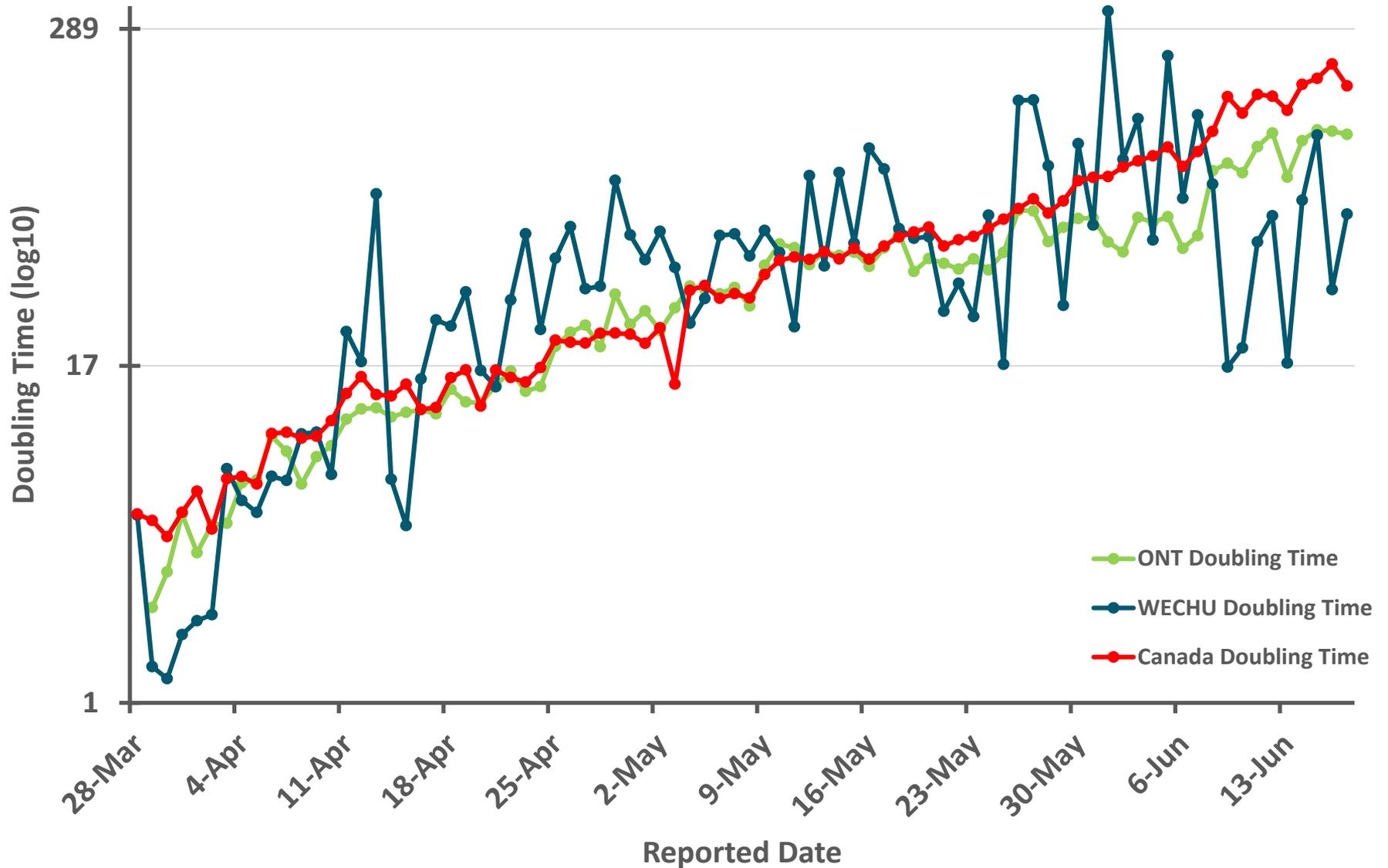
Random Testing in Windsor-Essex

Location	Date of Testing	# of tests	Symptomatic Positives	Asymptomatic Positives	Total Positive	% Positivity
Windsor	May 29 to 31	1768	0	0	0	0.0%
Tecumseh	June 5	568	0	1	1	0.2%
LaSalle	June 9	387	0	0	0	0.0%
Essex	June 2	516	1	1	2	0.4%
Kingsville	June 3	464	0	1	1	0.2%
Amherstburg	June 4	548	0	0	0	0.0%
Lakeshore	June 12	417	0	2	2	0.5%
Leamington	June 11	248	2	0	2	0.8%
Total		4916	3	5	8	0.2%

Doubling Time (Cumulative Comparison)

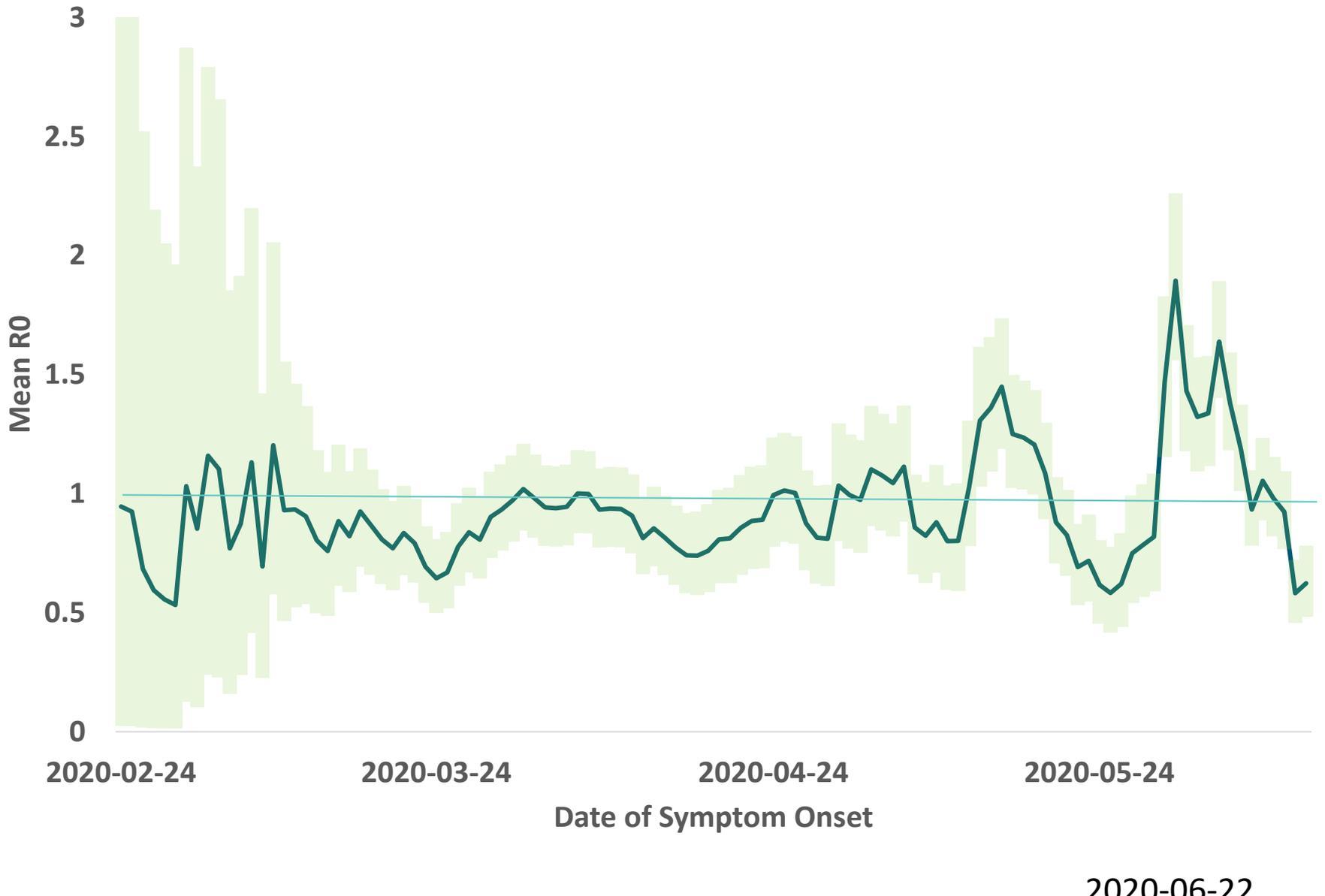


Doubling Time (Day over Day Comparison)



2020-06-22

Mean R0 (Effective)



Summary

- Windsor-Essex has continued to see a higher number of cases
 - Most attributed to the agri-farm sector
- The primary source of exposure is through close contact with a confirmed case
- Hospitalizations and ICU capacity are within expected thresholds
- Random testing has yielded few very positives
- R_0 (effective) value is less than 1 signalling a decrease in the spread of COVID
 - BUT we have seen variations in the past few of weeks