

COVID-19 Windsor and Essex County: March 20, 2020 to June 12, 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 [2020/06/11].
- Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Windsor-Essex County Health Unit [2020/06/11].
- Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic Summary: COVID-19 in Ontario – January 15, 2020 to June 10, 2020). Toronto, ON: Queen's Printer for Ontario; 2020.

Highlights

- At the time of reporting, there are 1,120 confirmed cases of COVID-19 in WEC between March 20th and June 11th.
- 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
- As of June 10th, there were 299 cases in long-term care and retirement homes (including staff and residents) and 280 cases among agri-farm workers.
- Windsor and Essex County has the 4th highest incidence rate in the province at 260 cases per 100,000 population.
 - This incidence rate is higher compared to the overall provincial rate of 212 cases per 100,000 population.
- In the last two weeks, 81% of the cases reported were among males and 19% were among females.
 - 59% of the cases during this time period were among adults 20 to 39 years of age.
- Overall, approximately 47% of the cases reside in the City of Windsor, 11% in Kingsville and another 28% in Leamington.
 - In the past 30 days, however, 70% of the cases have been 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 34% of current cases have a known chronic condition, an underlying condition or are immunocompromised.
- Coughing (72%) was the most commonly reported symptom among cases with COVID-19 reporting any symptoms followed by fever (52%), malaise (48%) and fatigue (48%).
- COVID-19 cases that are hospitalized have declined sharply in the past week alongside while ICU cases have stabilized to one COVID case.
- Approximately 31% of cases are still in self-isolation while 60% of cases have resolved.

- The overall case fatality rate in WEC is 6.0%, lower than the province (7.9%).
- Random testing of 4,499 residents thus far have yielded only four positive results.
- 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 Canada and stalled 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 1.18 and has increased from last week.



COVID-19 *LIVE UPDATE*

June 12, 2020

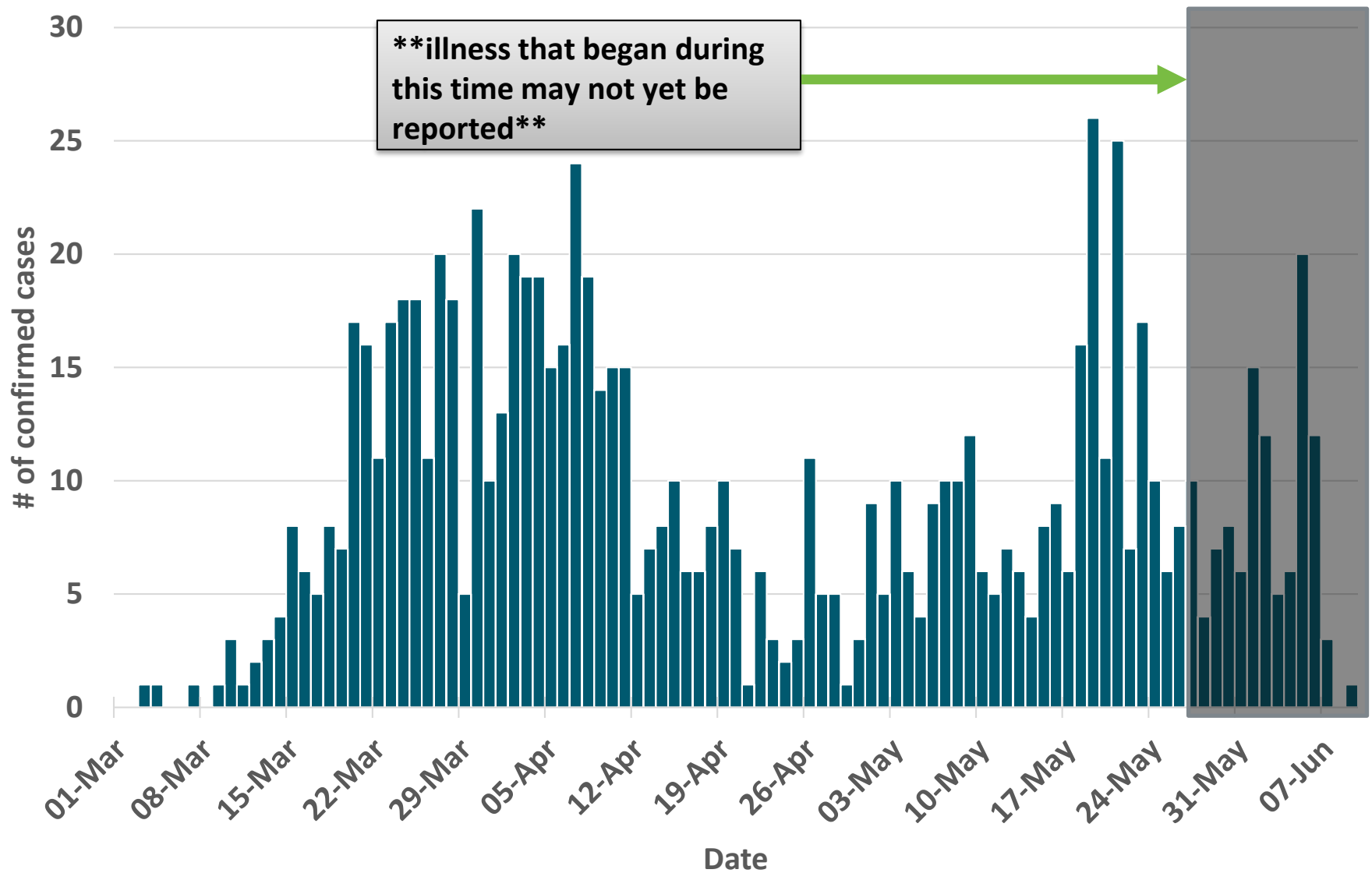
FOR UP-TO-DATE
CASE NUMBERS
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COVID-19 Epidemiological Summary

Content covered:

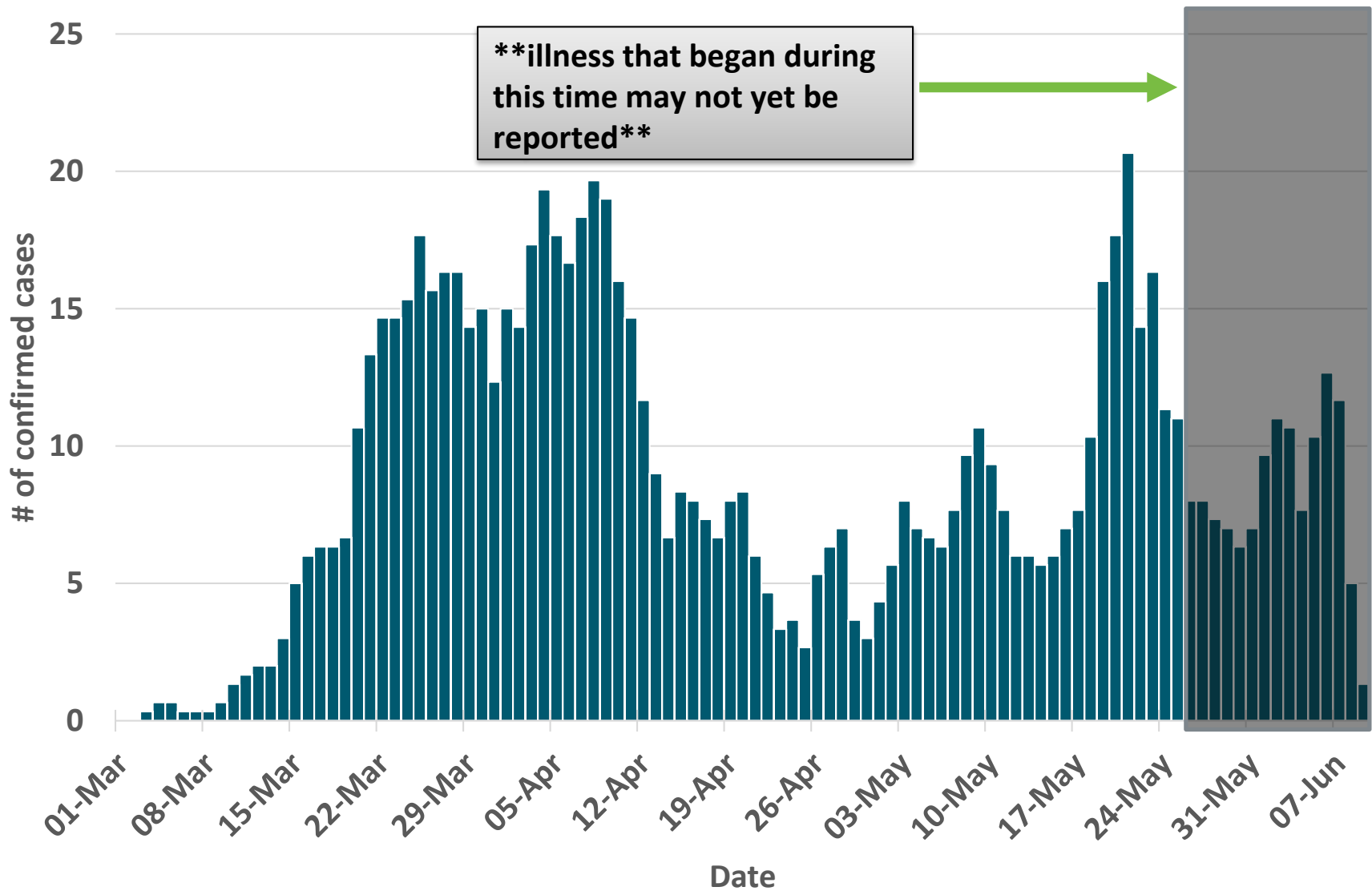
- Epidemic curves
- Regional & provincial rates
- Positive test turnaround time
- Case investigation time
- Age & sex distribution
- Distribution by municipality
- Exposure history
- Healthcare worker status
- Underlying conditions
- Top symptoms
- Hospitalizations & ICU
- Healthcare system capacity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

Epidemic Curve by Symptom Onset Date



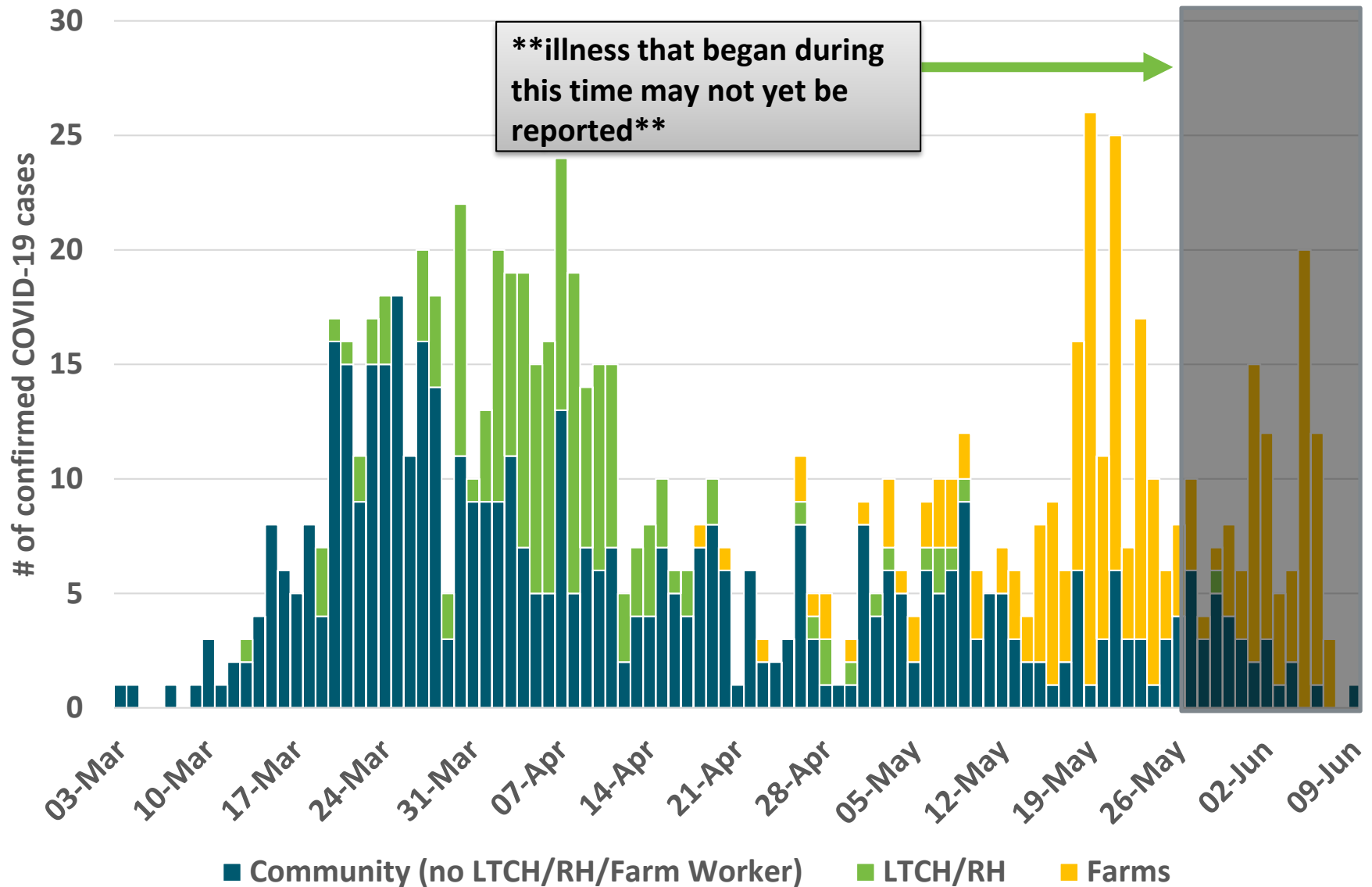
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Epidemic Curve by 3-Day Moving Average by Symptom Onset

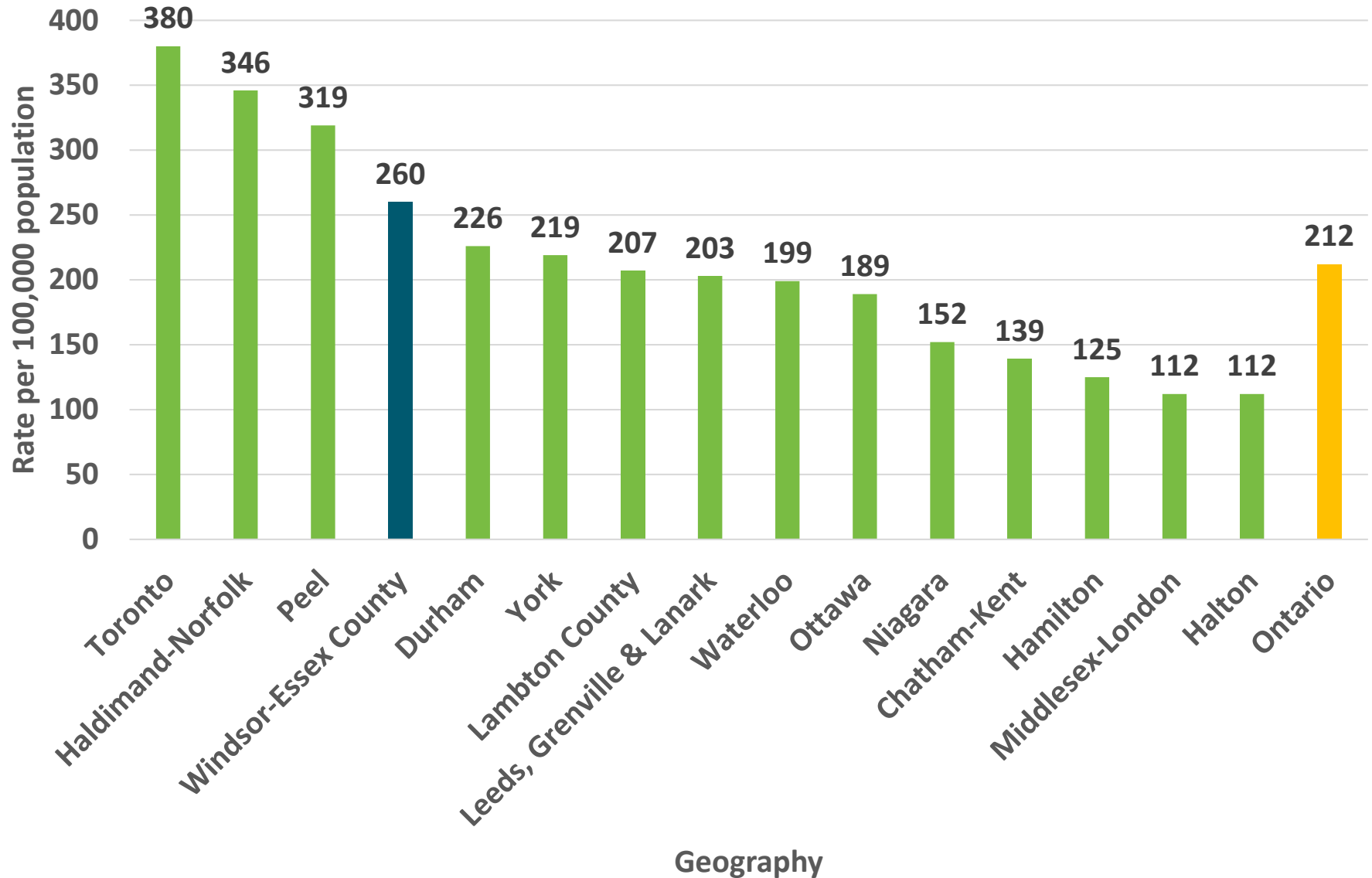


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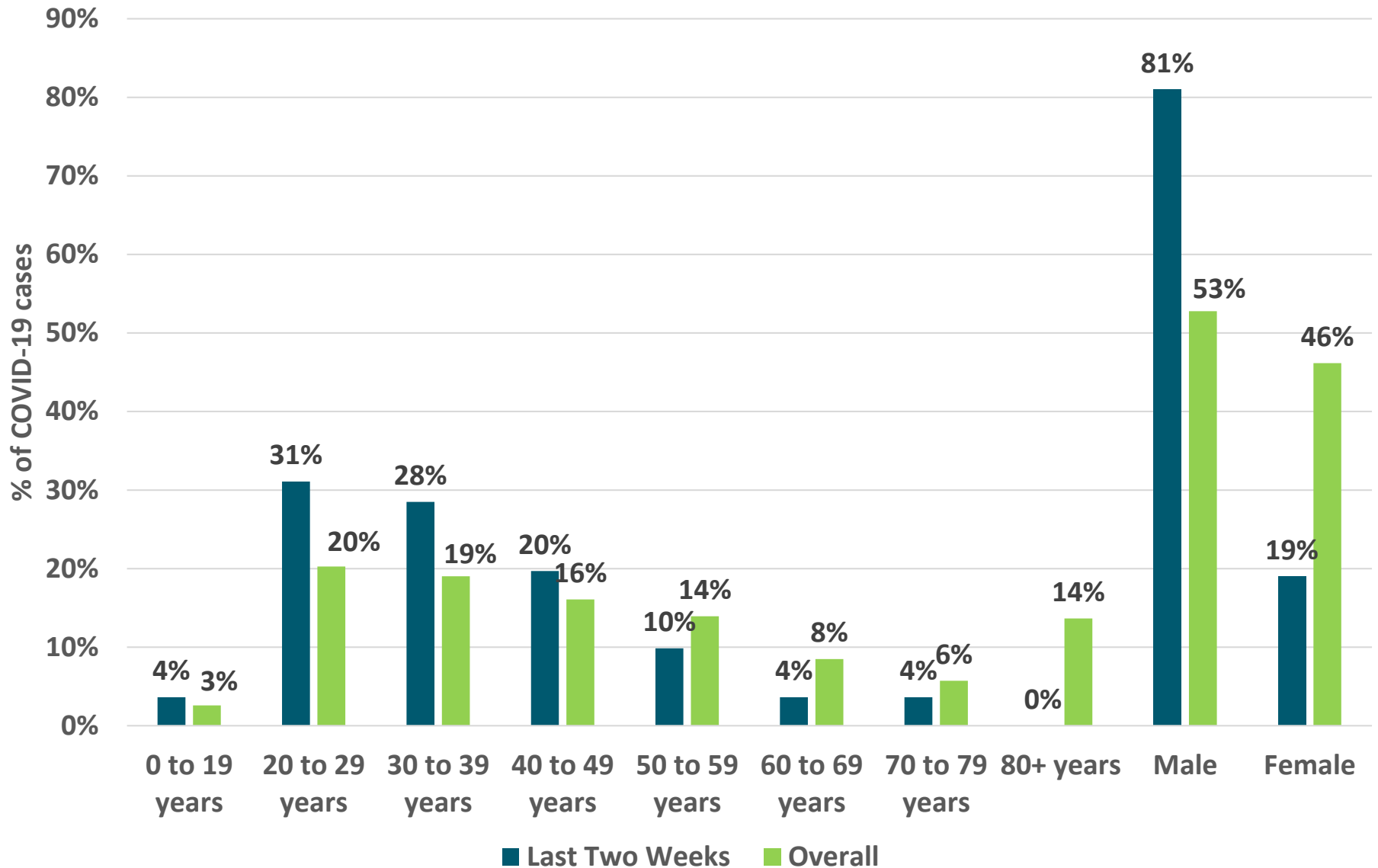
Epidemic Curve by Community vs. LTCH/RH vs. Farms by Symptom Onset



Regional & Provincial Rates

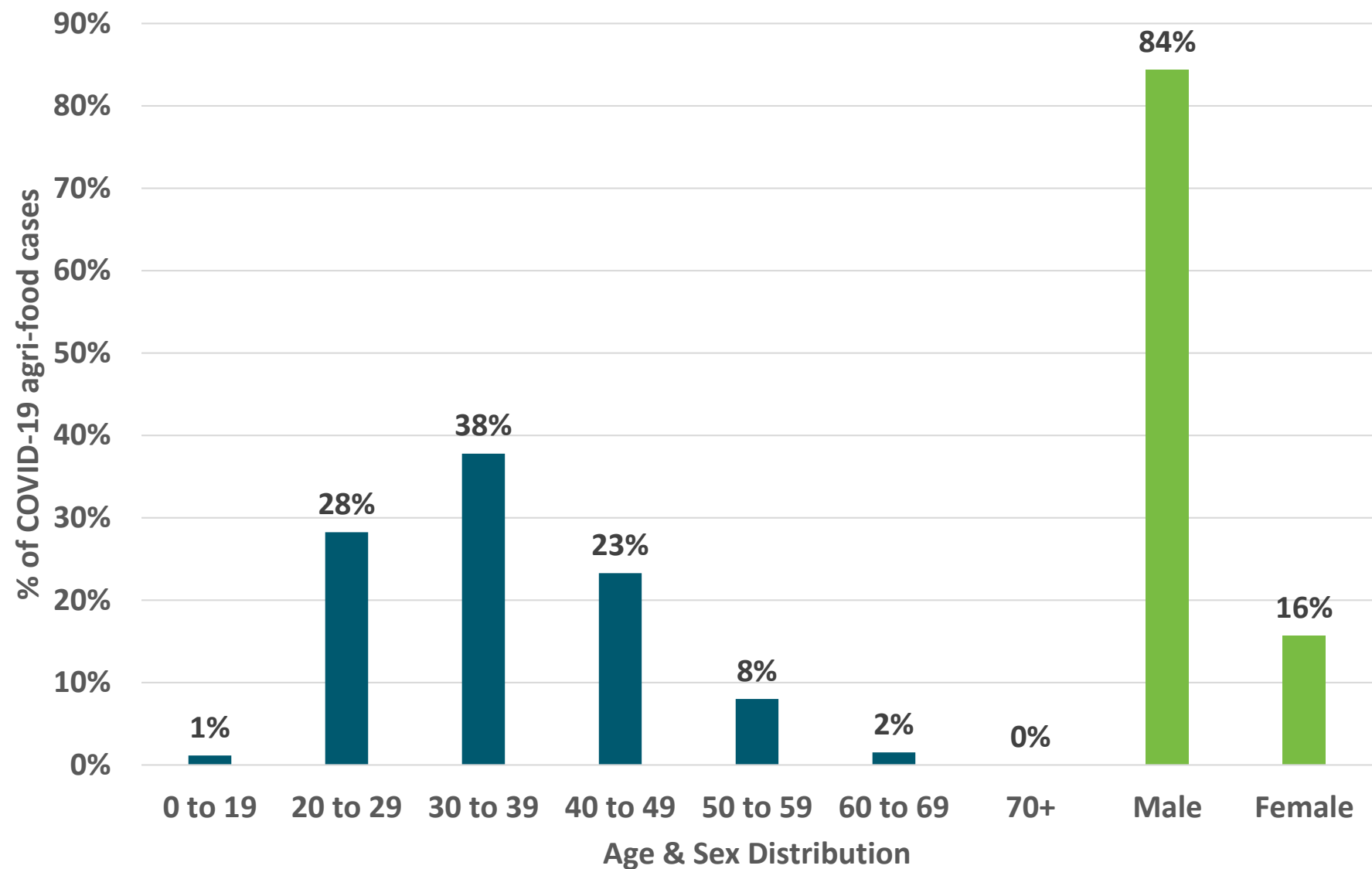


Age & Sex Distribution

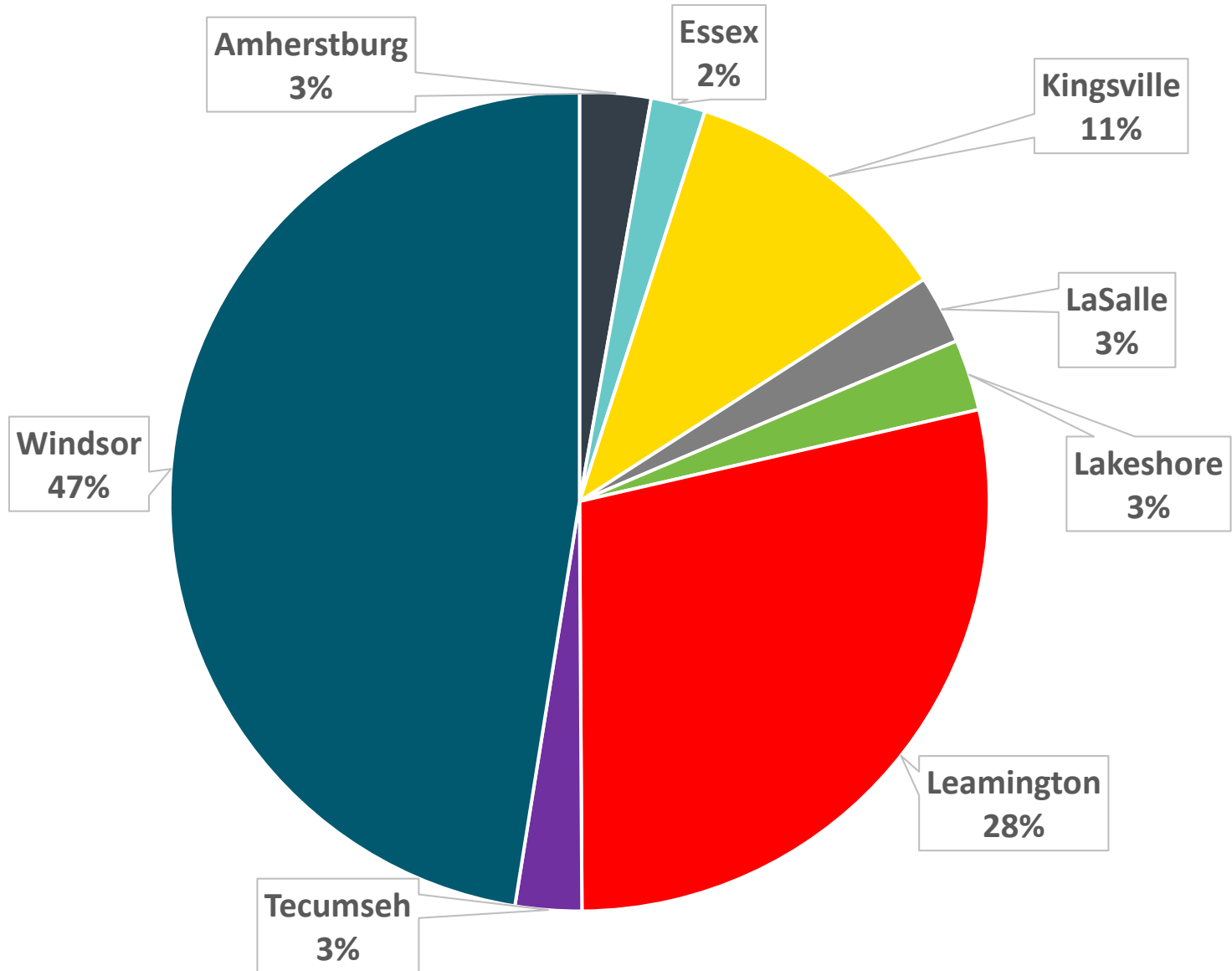


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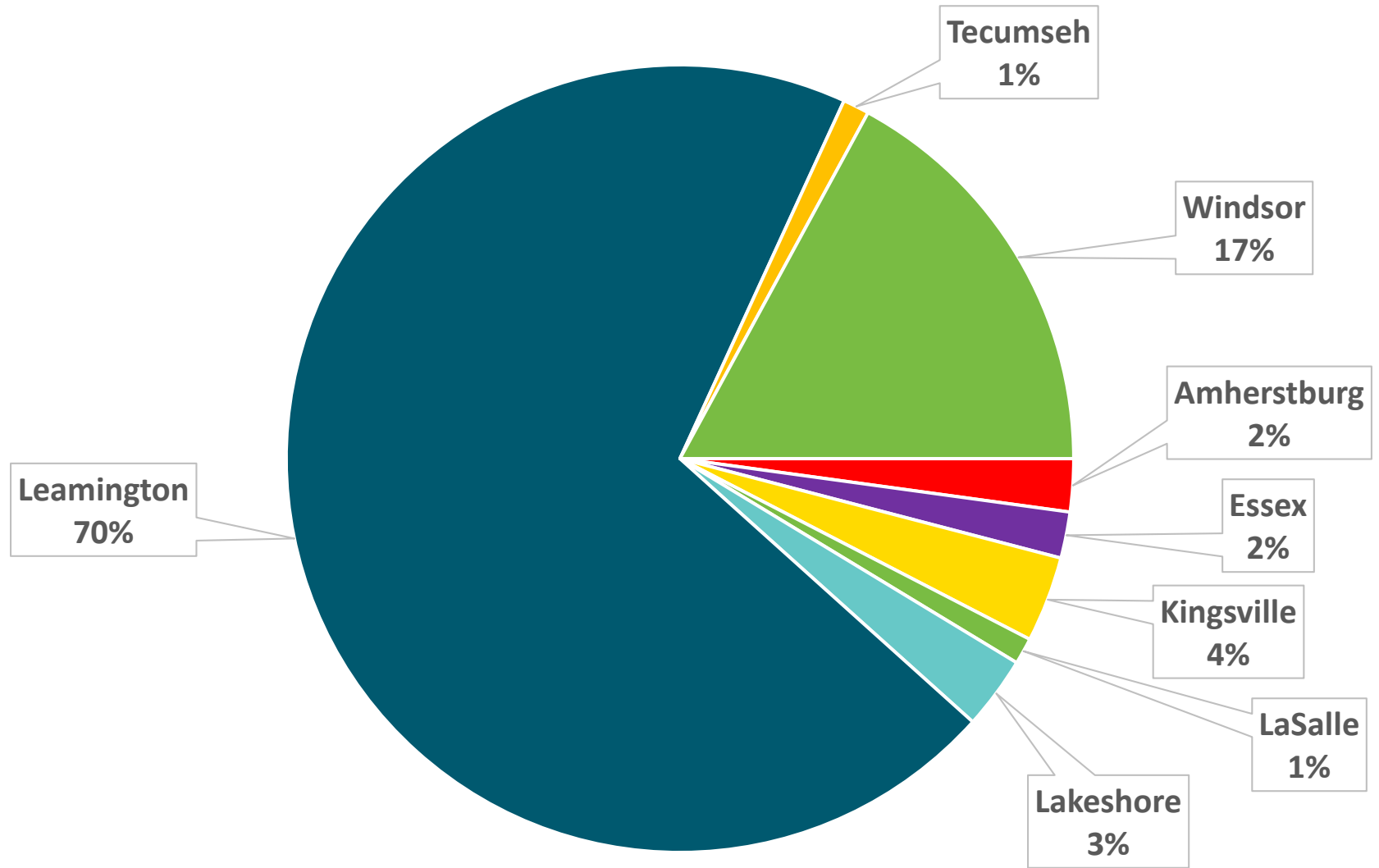
Age & Sex Distribution of Agri-Farm Workers



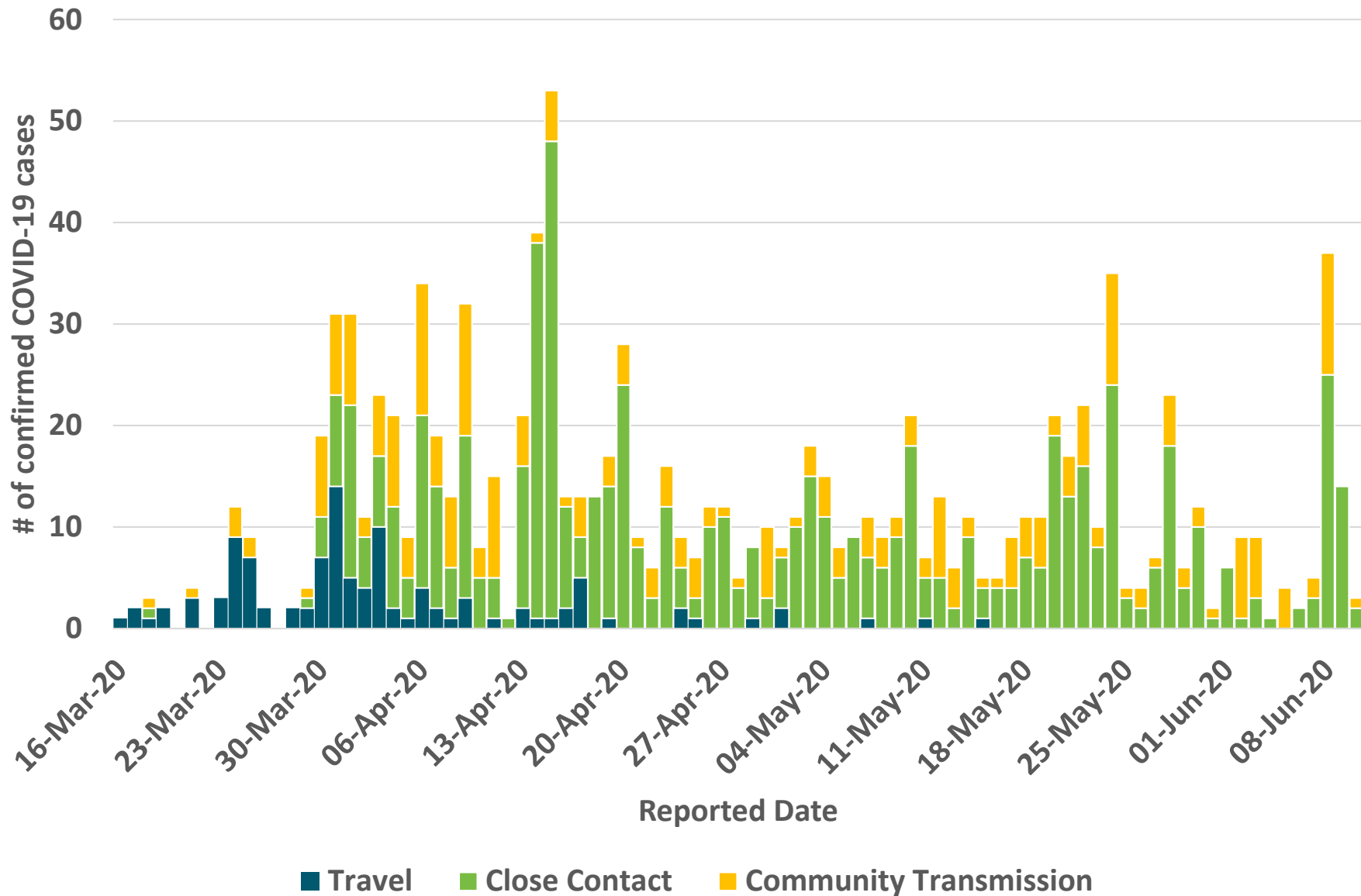
Distribution of COVID-19 Cases by Municipality



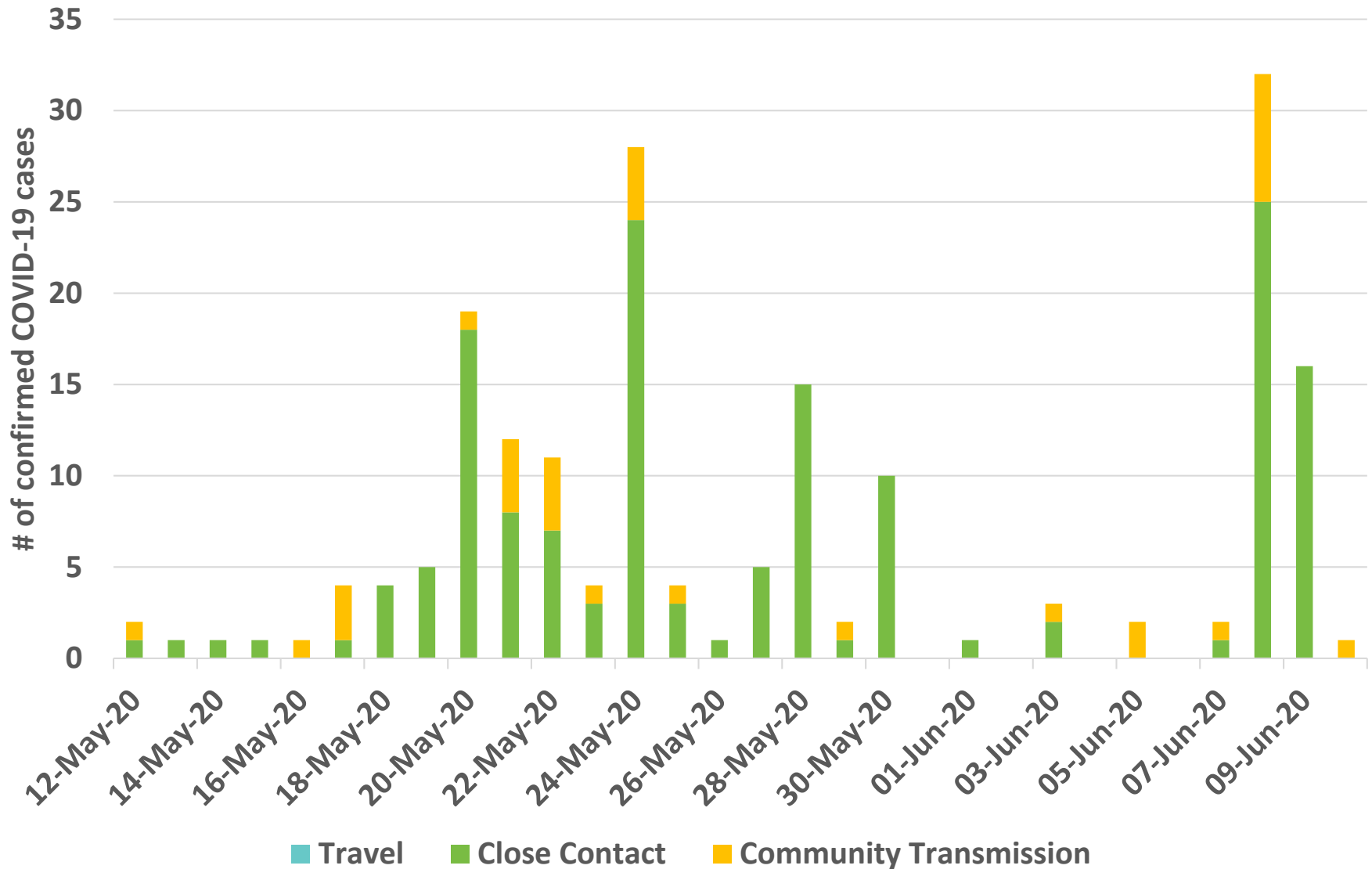
Distribution of COVID-19 Cases by Municipality in last 30 days



Exposure History by Reported Date

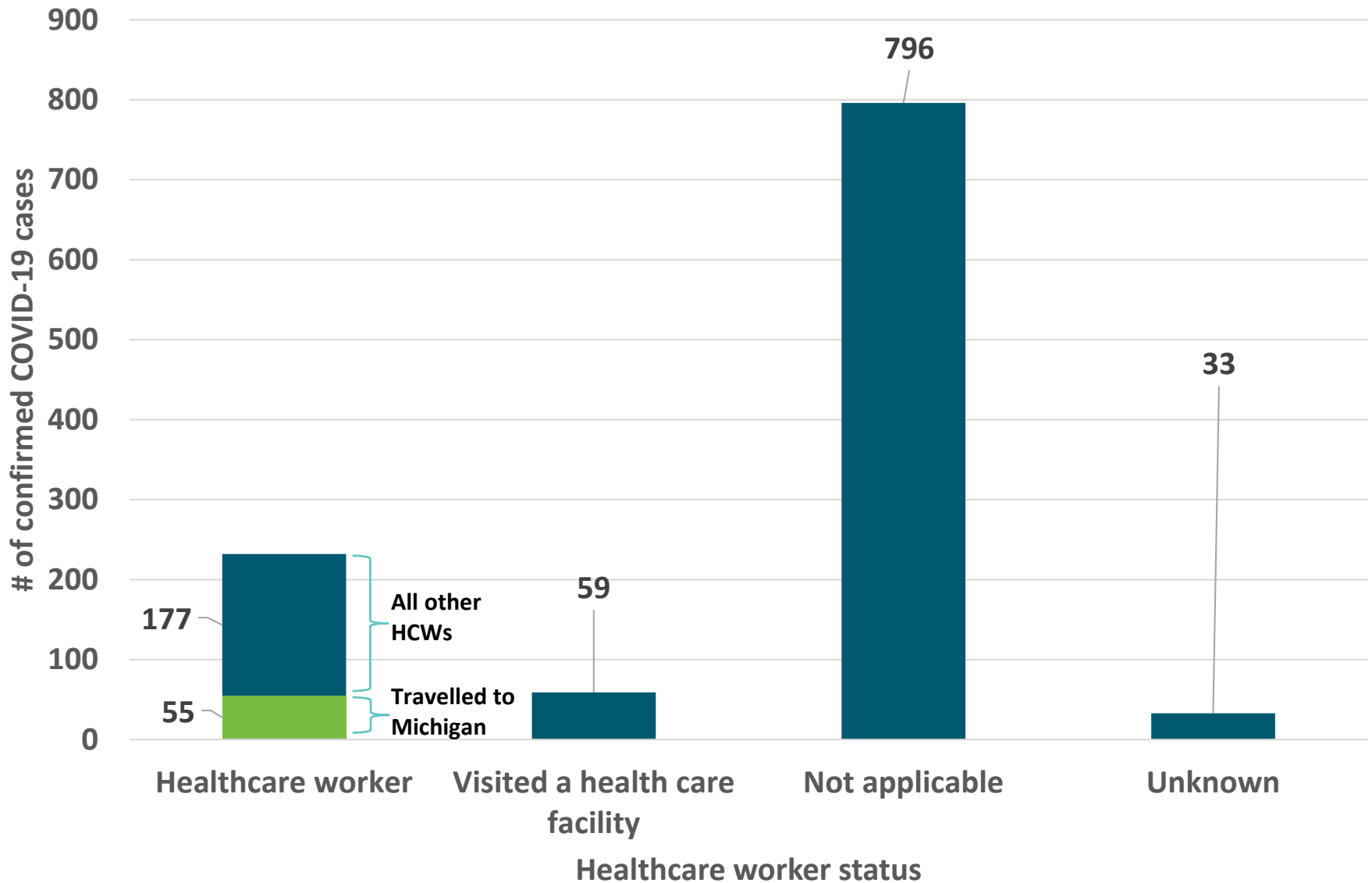


Exposure History by Reported Date Among Agri-Farm Workers in the past 30 days

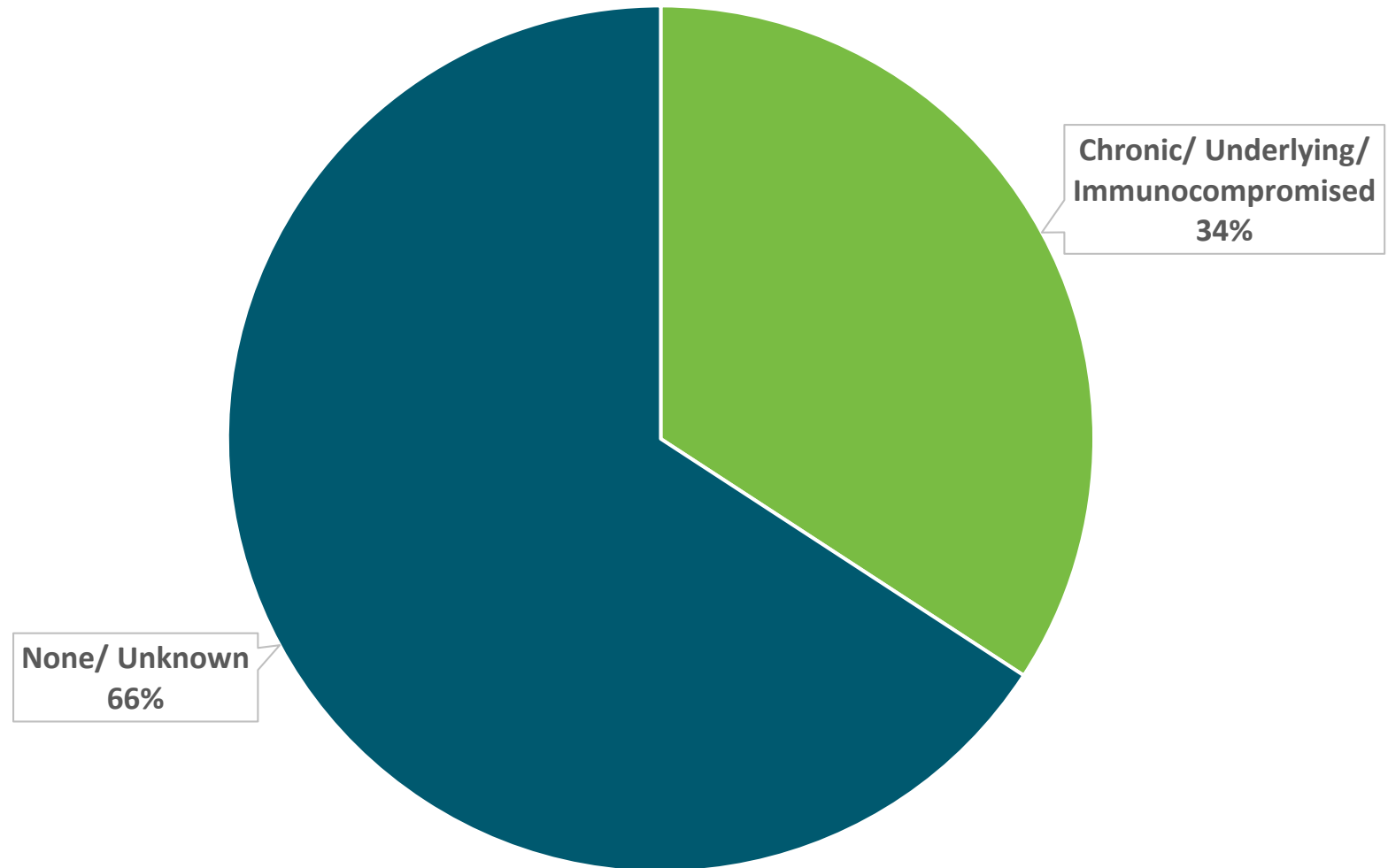


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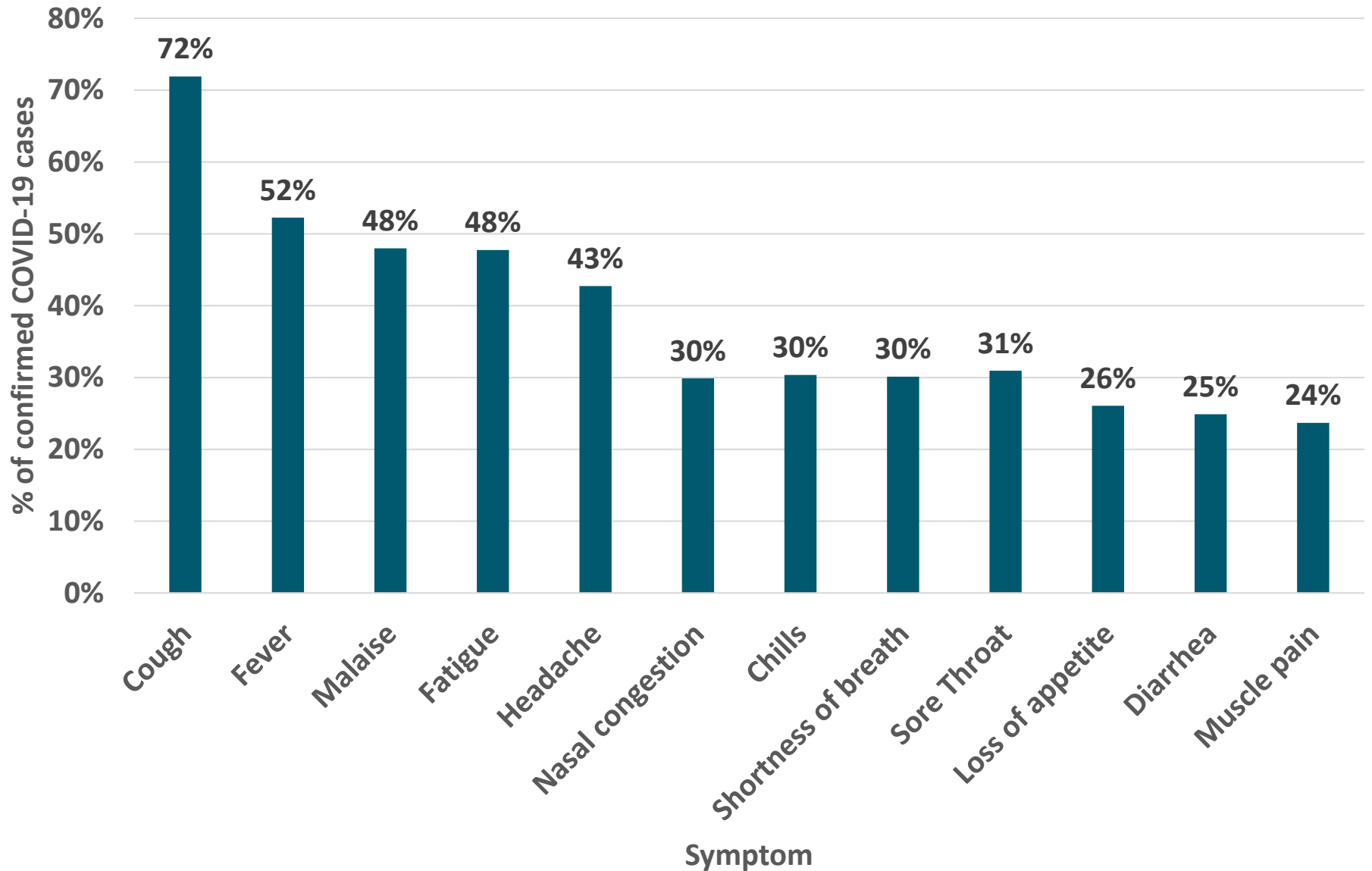
COVID-19 Cases by Healthcare Worker



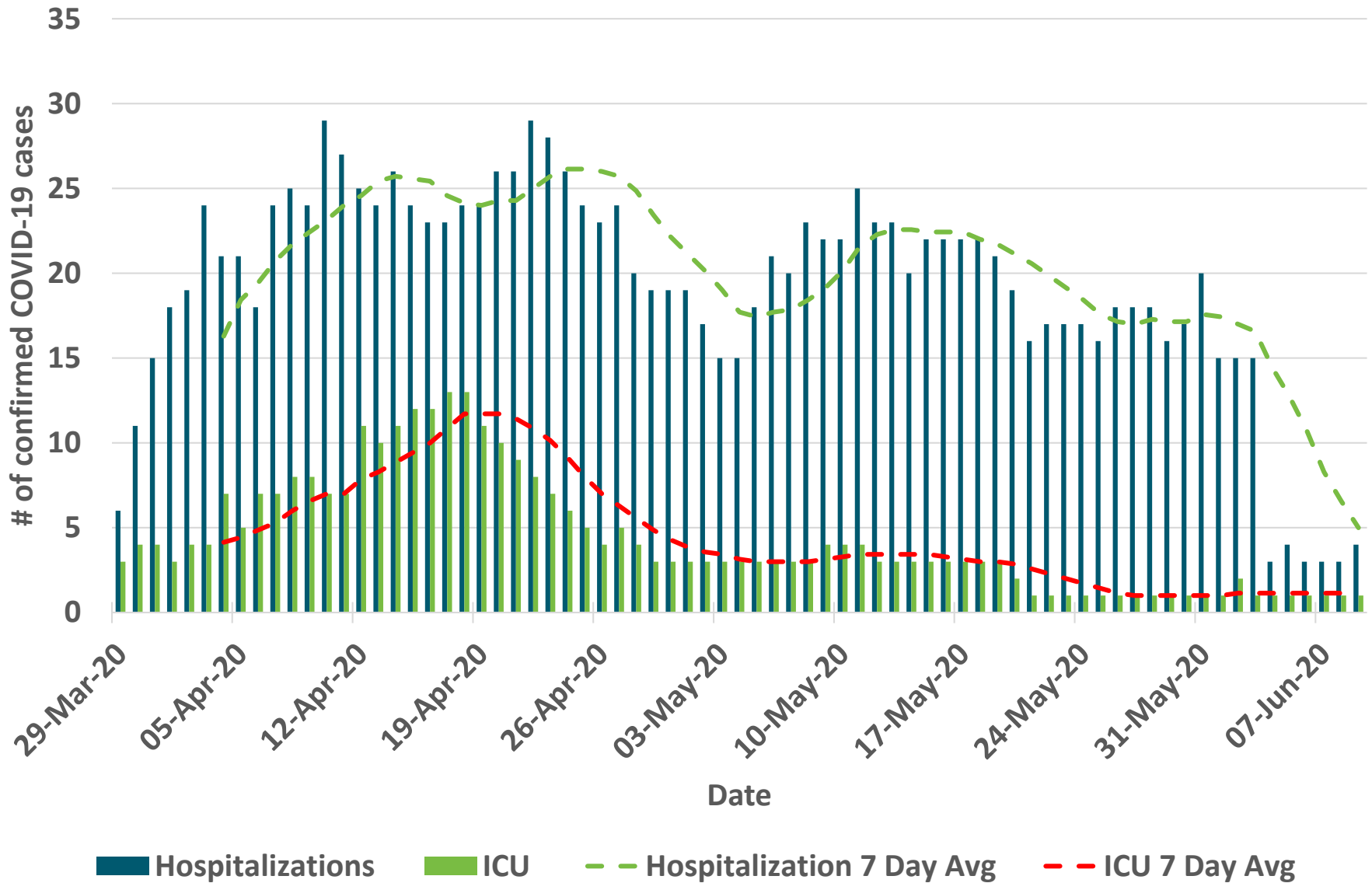
Underlying Health Conditions



Most Common Symptoms

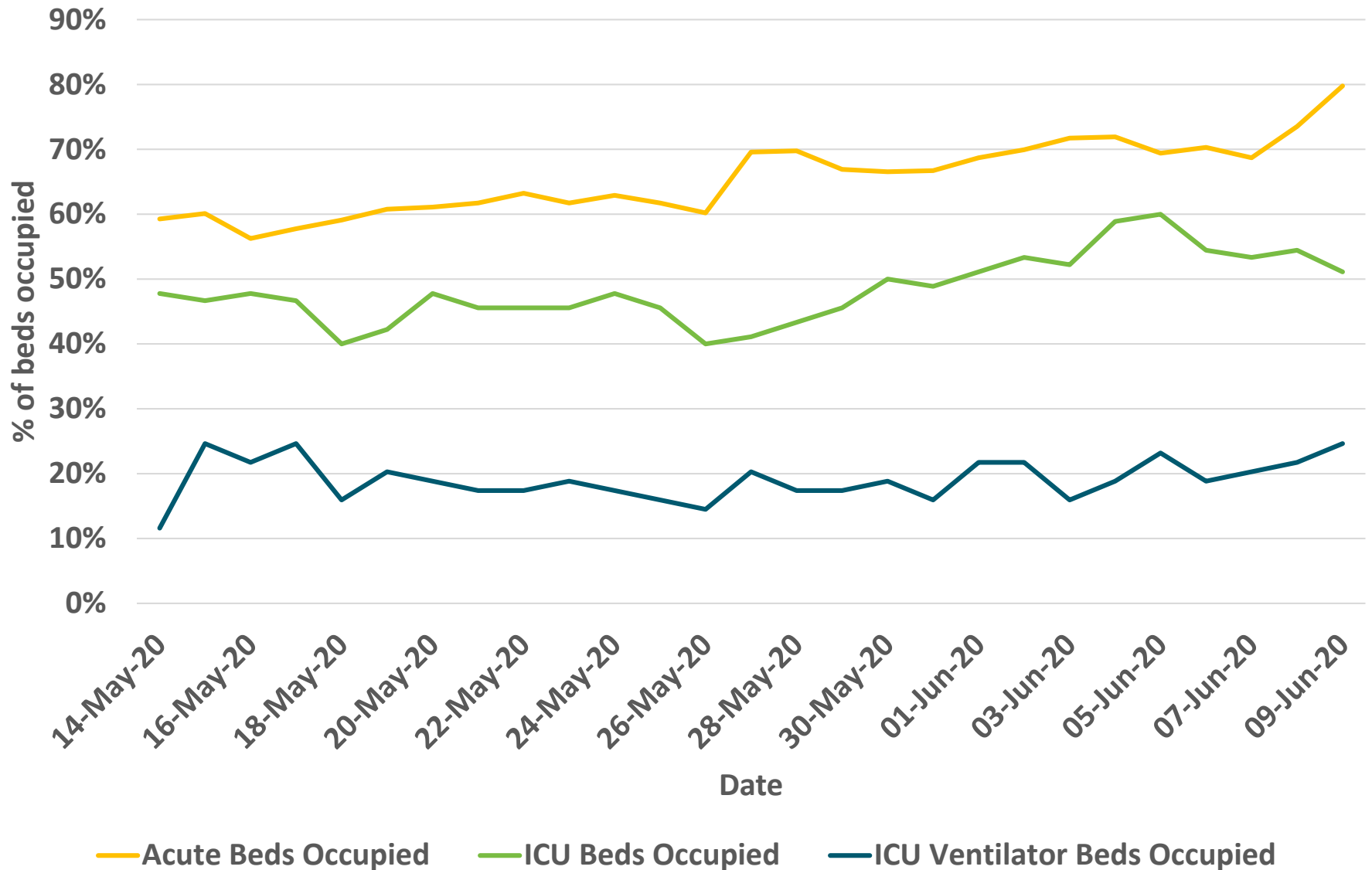


Hospitalizations & ICU for COVID-19



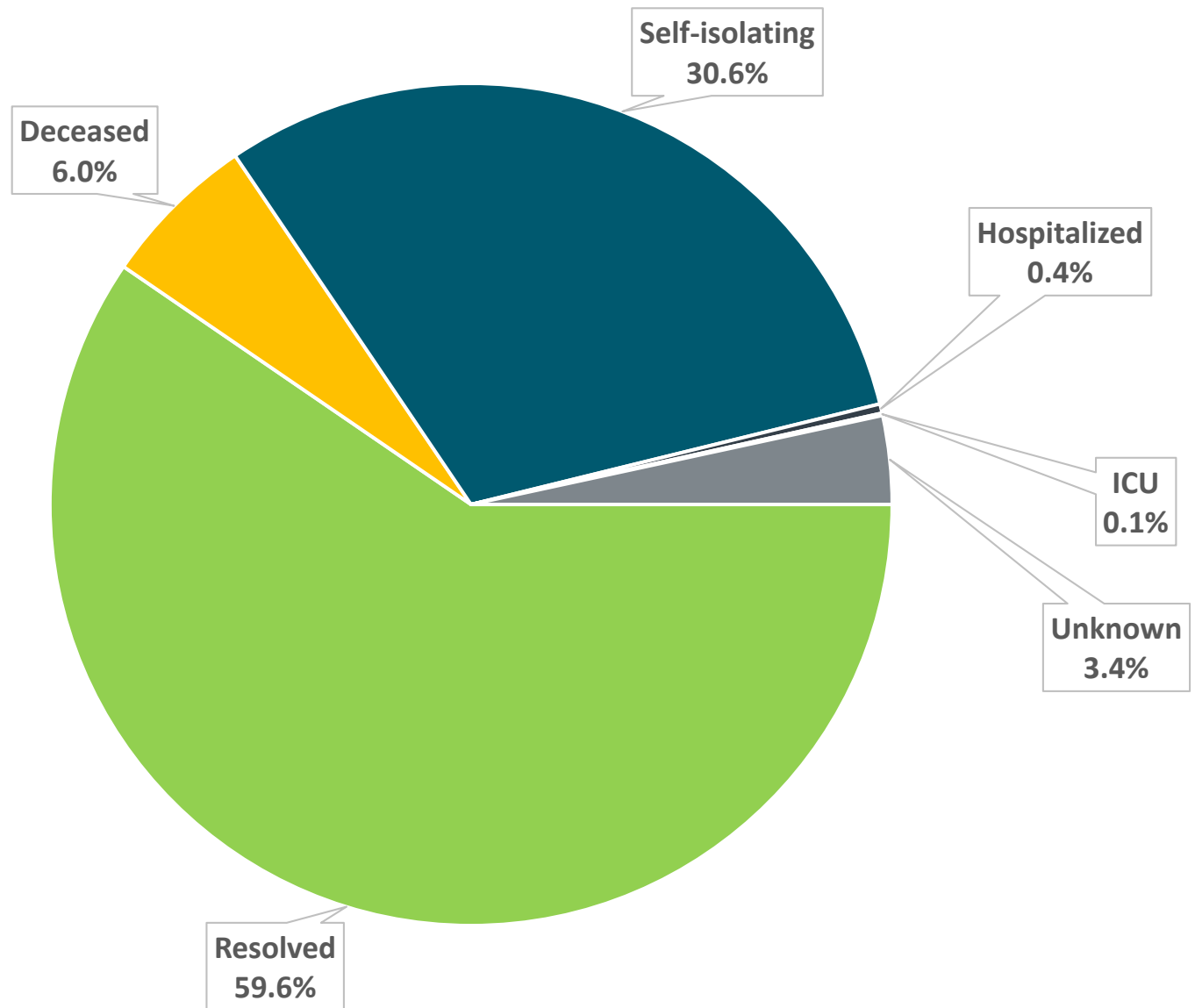
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Health Care System Capacity

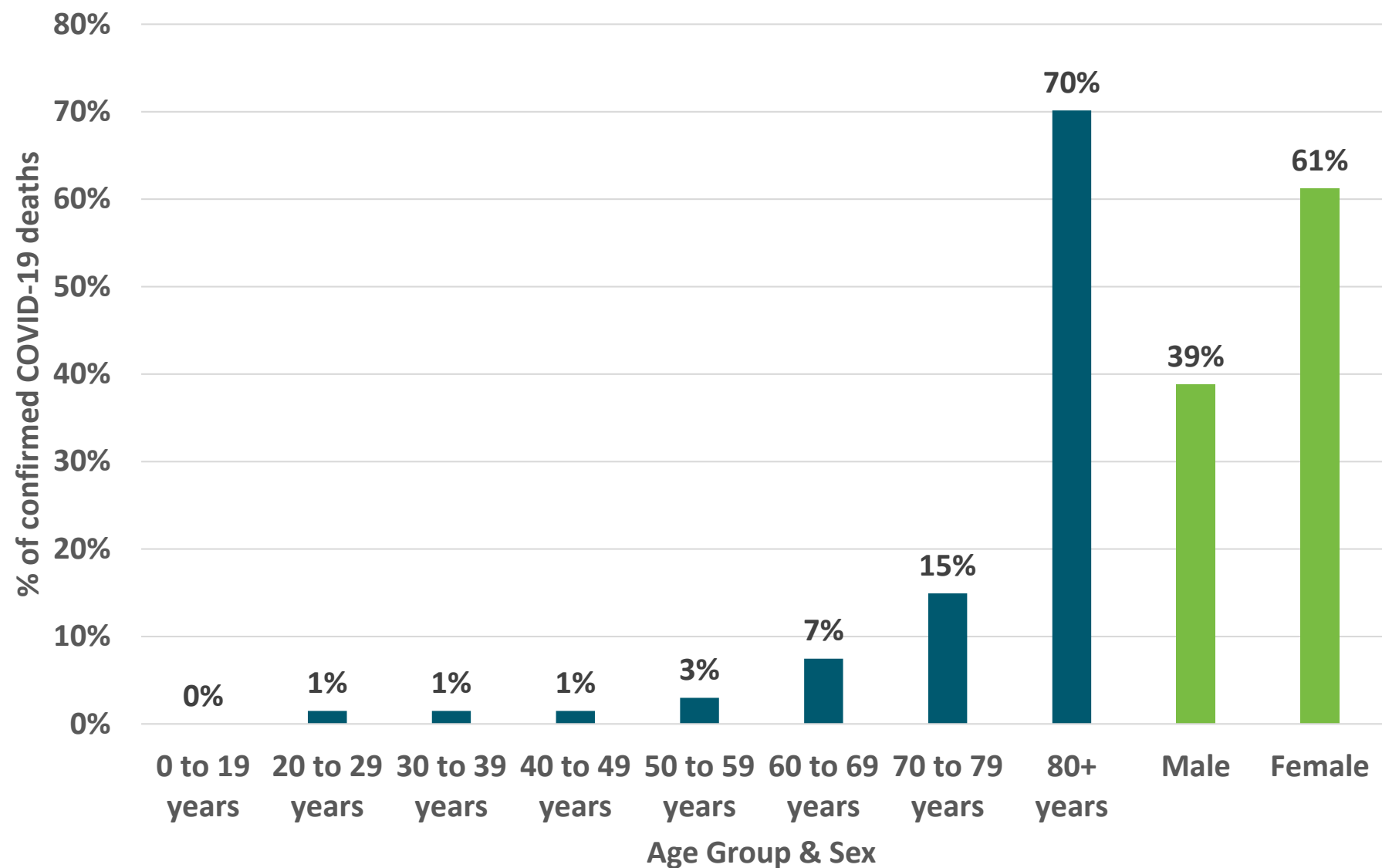


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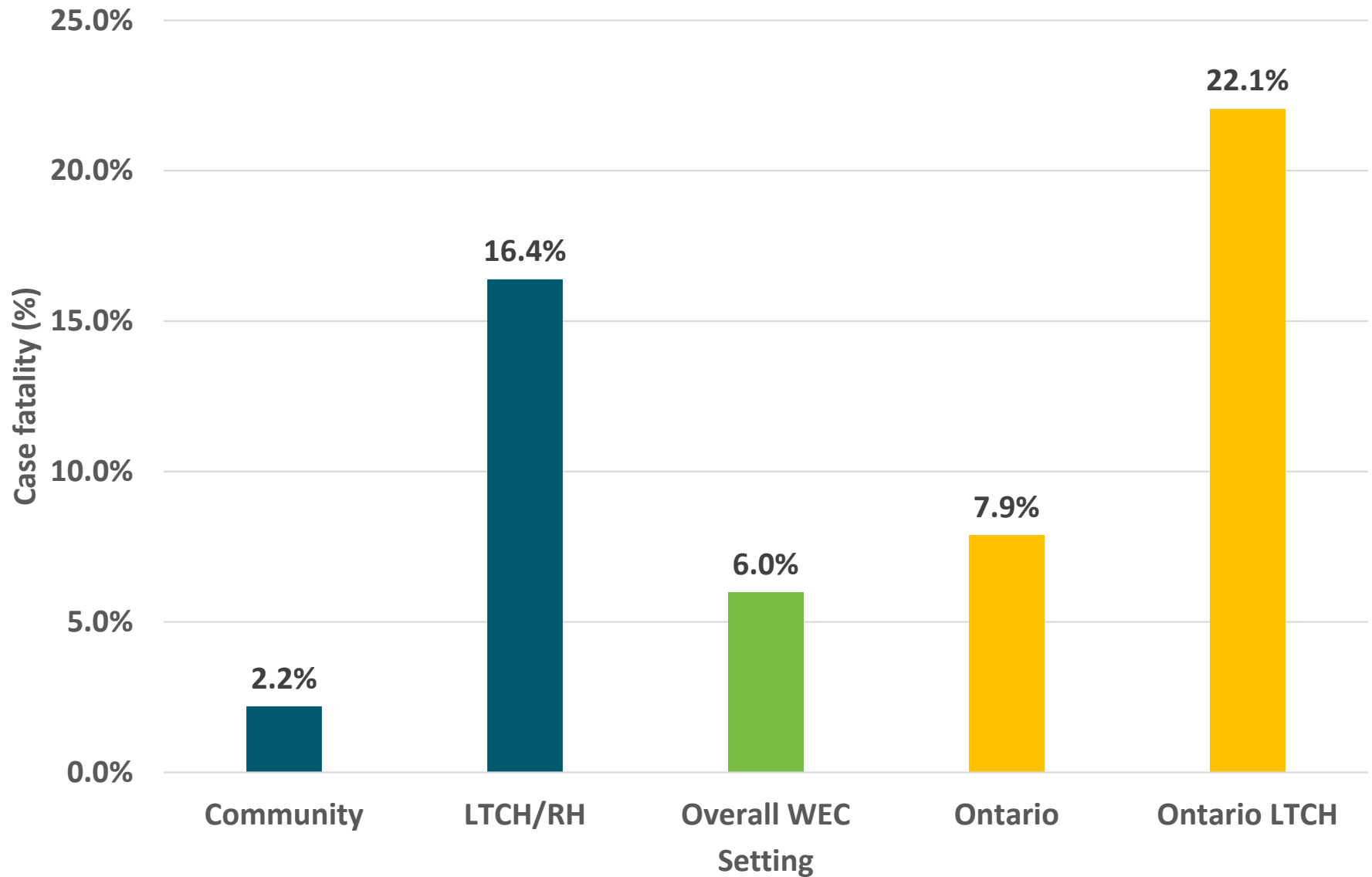
Current Outcomes



Age & Sex Breakdown of COVID-19 Deaths



Case Fatality Rate

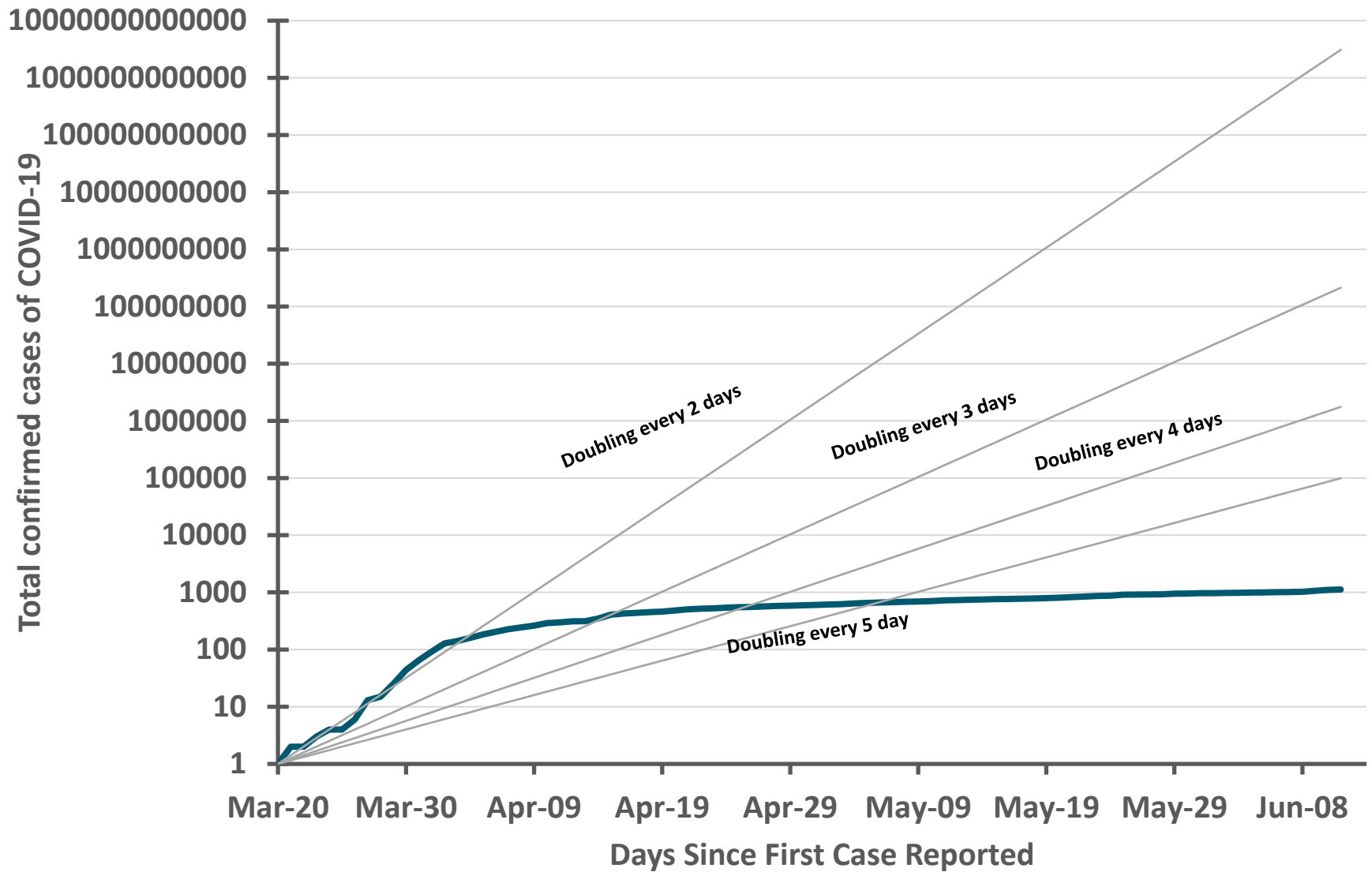


Random Testing in Windsor-Essex

Location	Date Done	# 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%
Leamington	June 11	248	0	0	0	0.0%
Total		4499	1	3	4	0.1%

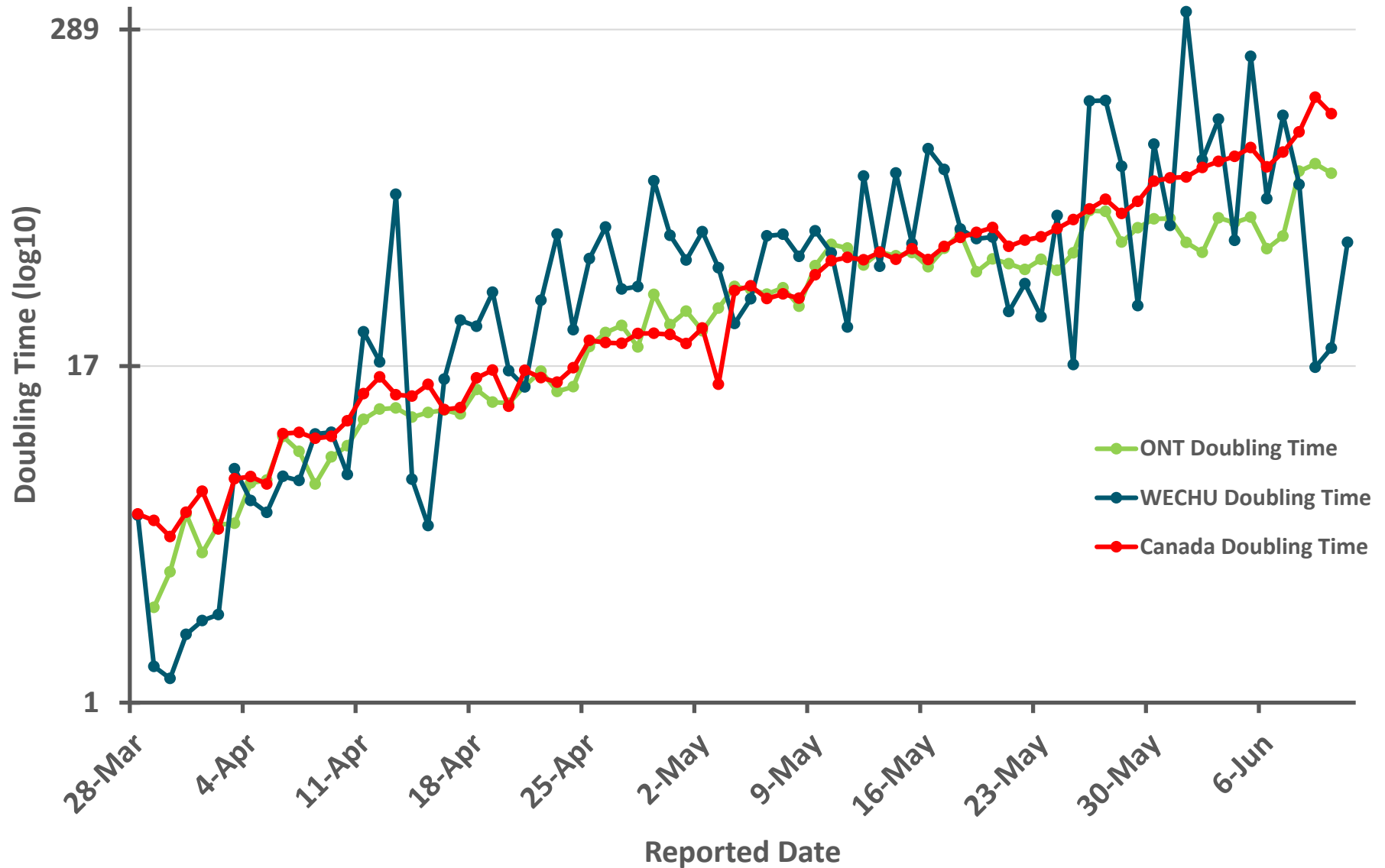
Please note that full results for LaSalle and all results for Leamington are not available

Doubling Time (Cumulative Comparison)



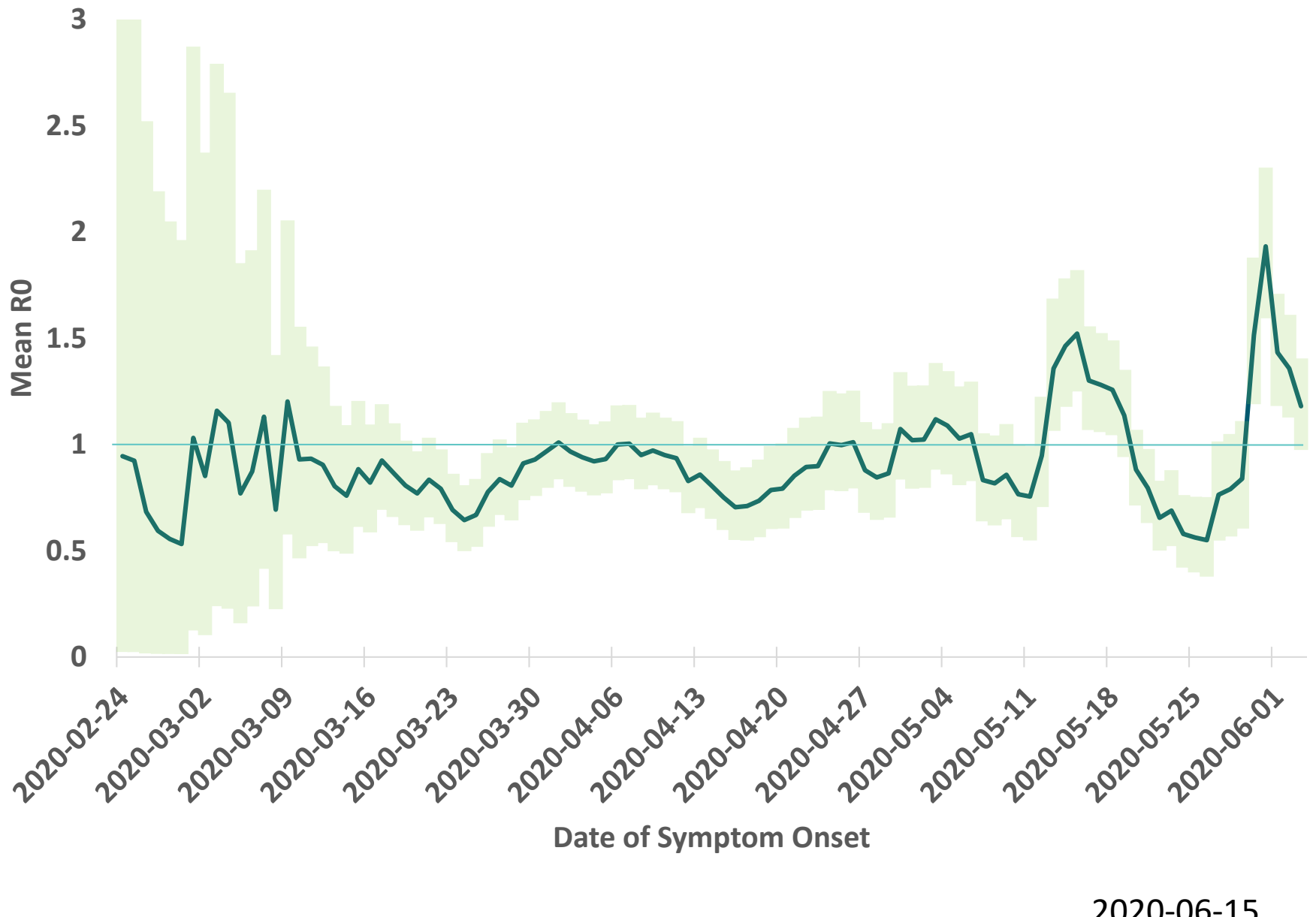
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Doubling Time (Day over Day Comparison)



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Mean R0 (Effective)



Summary

- Windsor-Essex this week saw a higher number of case
 - Most attributed to the agri-farm sector
- 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
- Random testing has yielded few very positives thus far
- R_0 (effective) value is greater than 1 signalling an increase in the spread of COVID