

## COVID-19 Windsor and Essex County: March 20, 2020 to May 22, 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 [2020/05/21].
- Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Windsor-Essex County Health Unit [2020/05/21].
- Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic Summary: COVID-19 in Ontario – January 15, 2020 to May 20, 2020). Toronto, ON: Queen's Printer for Ontario; 2020.

### Highlights

- At the time of reporting, there are 826 confirmed cases of COVID-19 in WEC between March 20<sup>th</sup> and May 21<sup>st</sup>.
- Based on symptom onset, cases in WEC continue to decrease from the peak seen in March and April.
- Cases (including staff and residents) within long-term care and retirement homes have decreased in May thus far.
- Windsor and Essex County has the 4<sup>th</sup> highest incidence rate in the province at 189 cases per 100,000.
- Between May 13<sup>th</sup> and May 19<sup>th</sup>, approximately 4% of the tests on average returned as positive for COVID-19 when tested for COVID-19.
- Among females, 22% of all female cases were among those 80 years or older
  - Among males, 38% of all male cases were among those between 20 to 39 years.
- From May 1<sup>st</sup> to May 21<sup>st</sup>, approximately 49% of all the new cases were among individuals between the ages of 20 to 49 years of age.
- Approximately 60% of the cases reside in the City of Windsor, 12% in Kingsville and another 12% in 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.
- 27% of the confirmed COVID-19 cases are healthcare workers and of these 219 healthcare workers, 25% of HCW reported travelled to Michigan prior to becoming ill.
- Approximately 37% 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 fatigue, malaise, and fever.
- Approximately 22% of cases are still in self-isolation while 56% of cases have resolved.

- Approximately 73% of the deaths have occurred in individuals 80 years or older.
  - 62% of the deaths were in females and 38% in males.
- The overall case fatality rate in WEC is 7.6%, slightly lower than the province (8.2%).
- 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.
- The mean  $R_0$  (effective) value is 1.07 indicating that community spread is still occurring.



# COVID-19 *LIVE UPDATE*

May 22, 2020

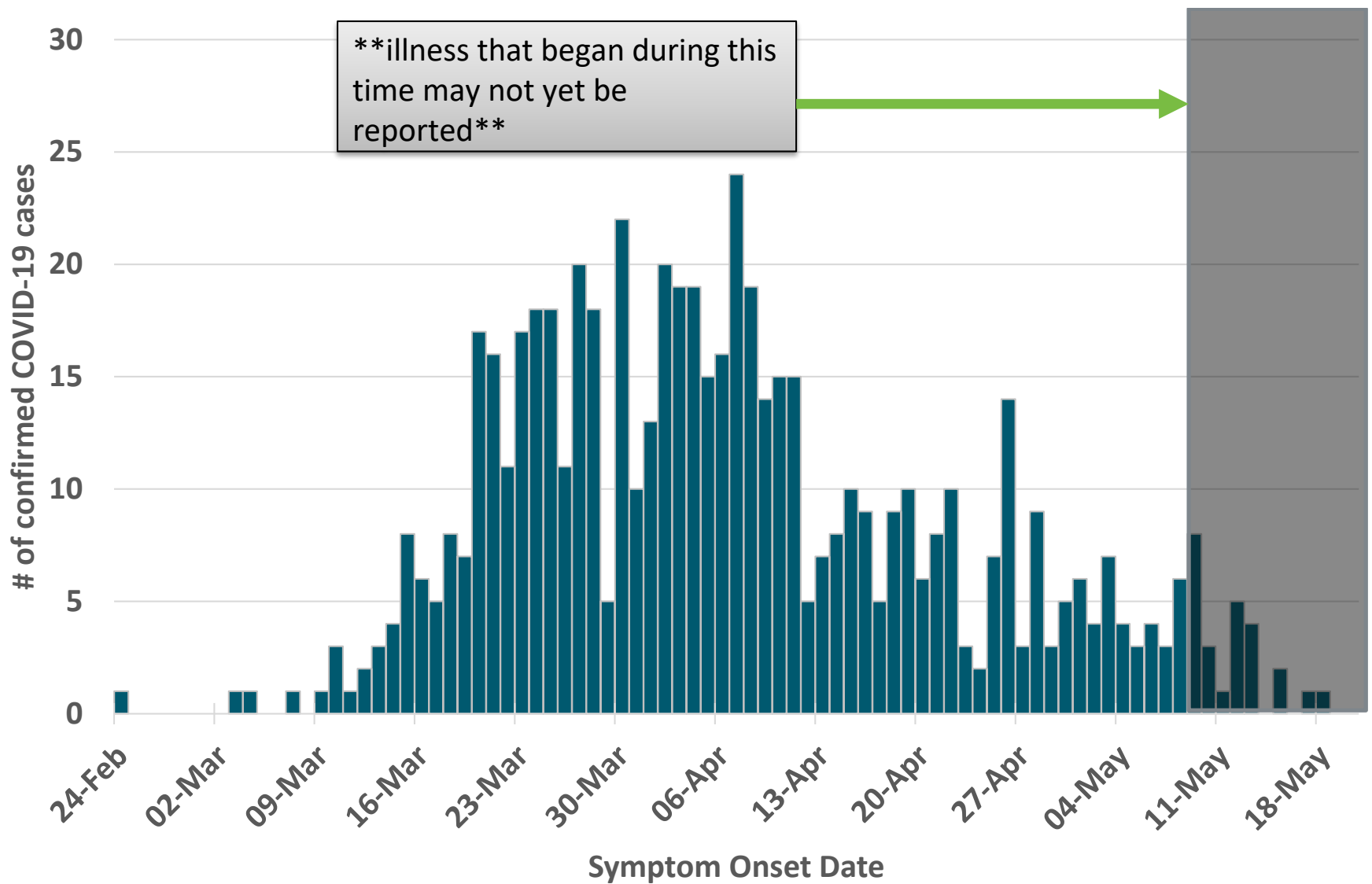
FOR UP-TO-DATE  
CASE NUMBERS  
VISIT  
**[wechu.org](http://wechu.org)**

# COVID-19 Epidemiological Summary

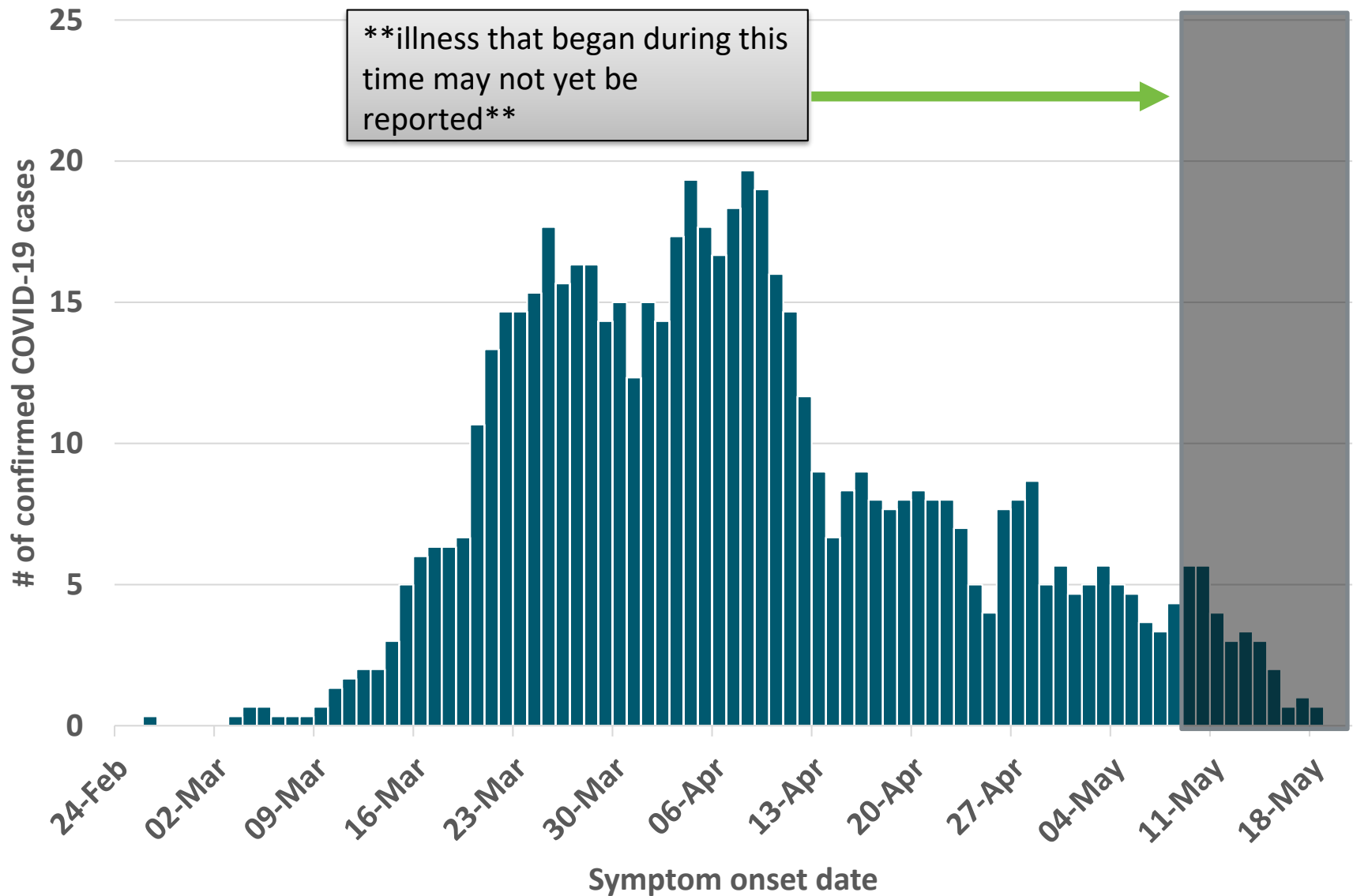
Content covered:

- Epidemic curves
- 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
- Healthcare worker status
- Underlying conditions
- Top symptoms
- Hospitalizations & ICU
- Current outcomes
- Breakdown by deaths
- Doubling time
- Mean  $R_0$  (effective)

# Epidemic Curve by Symptom Onset Date

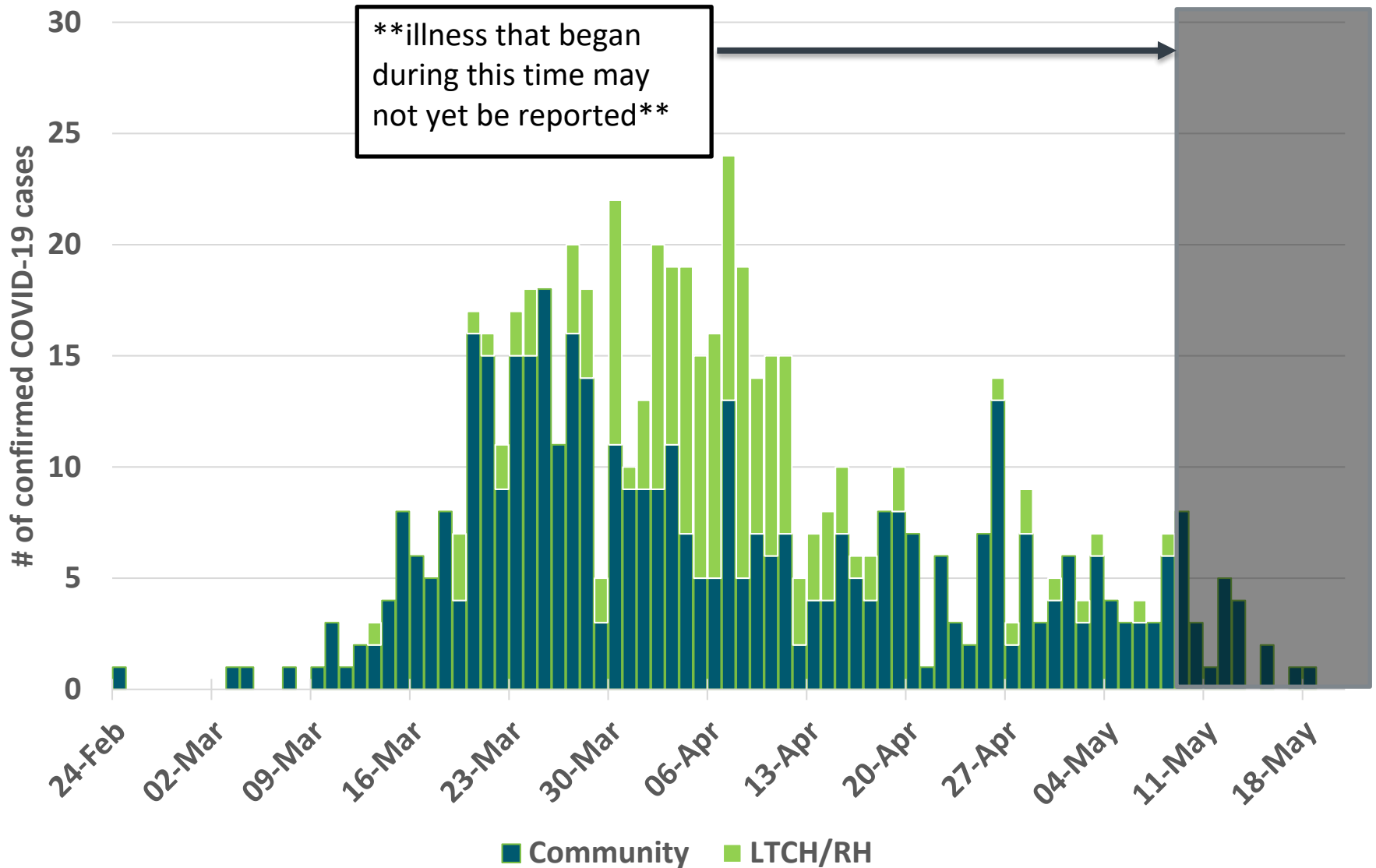


# Epidemic Curve by 3-Day Moving Average



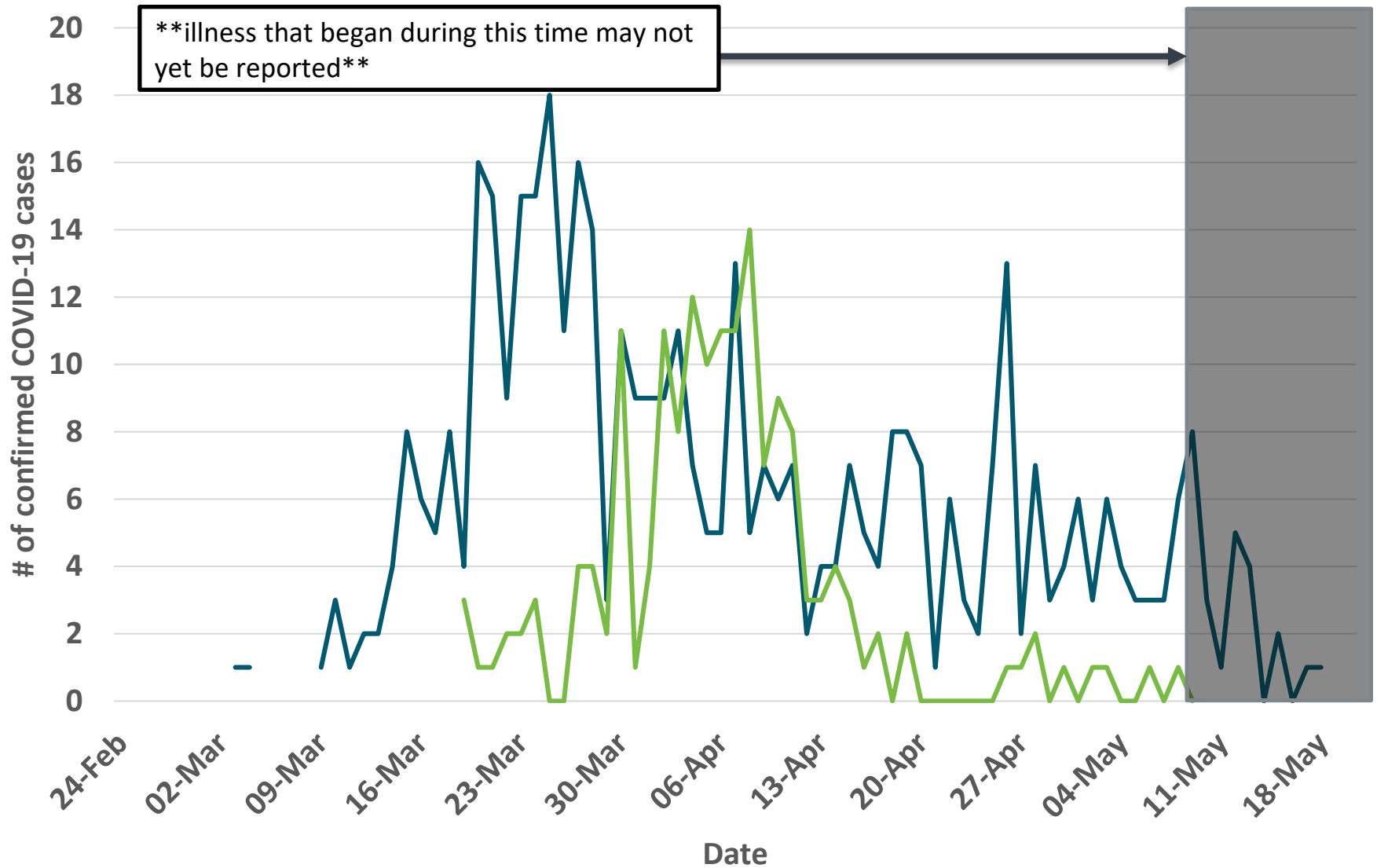
2020-05-22

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



2020-05-22

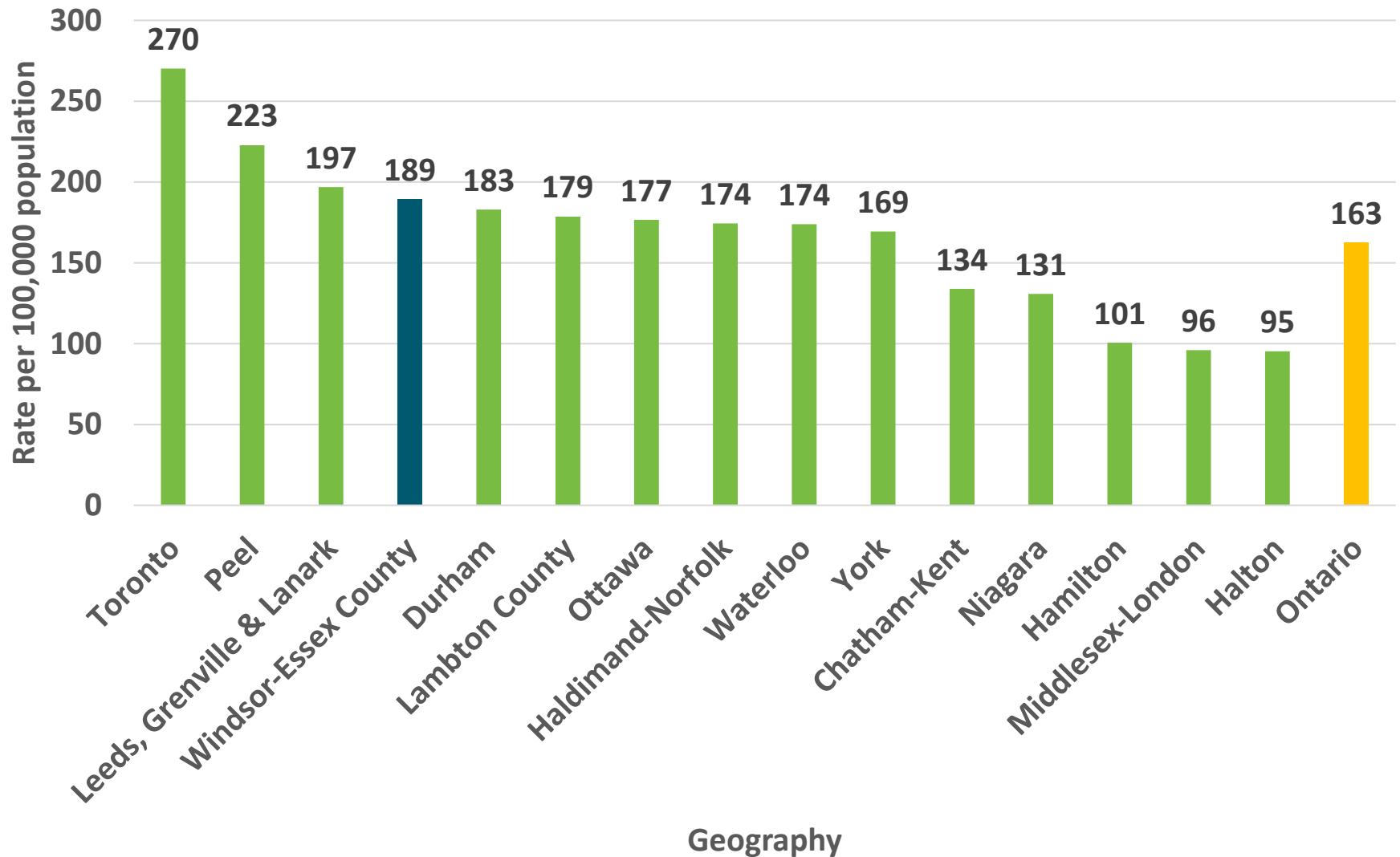
# **\*\*Alternative\*\* Epidemic Curve by Community vs. LTCH/RH by Symptom Onset Date**



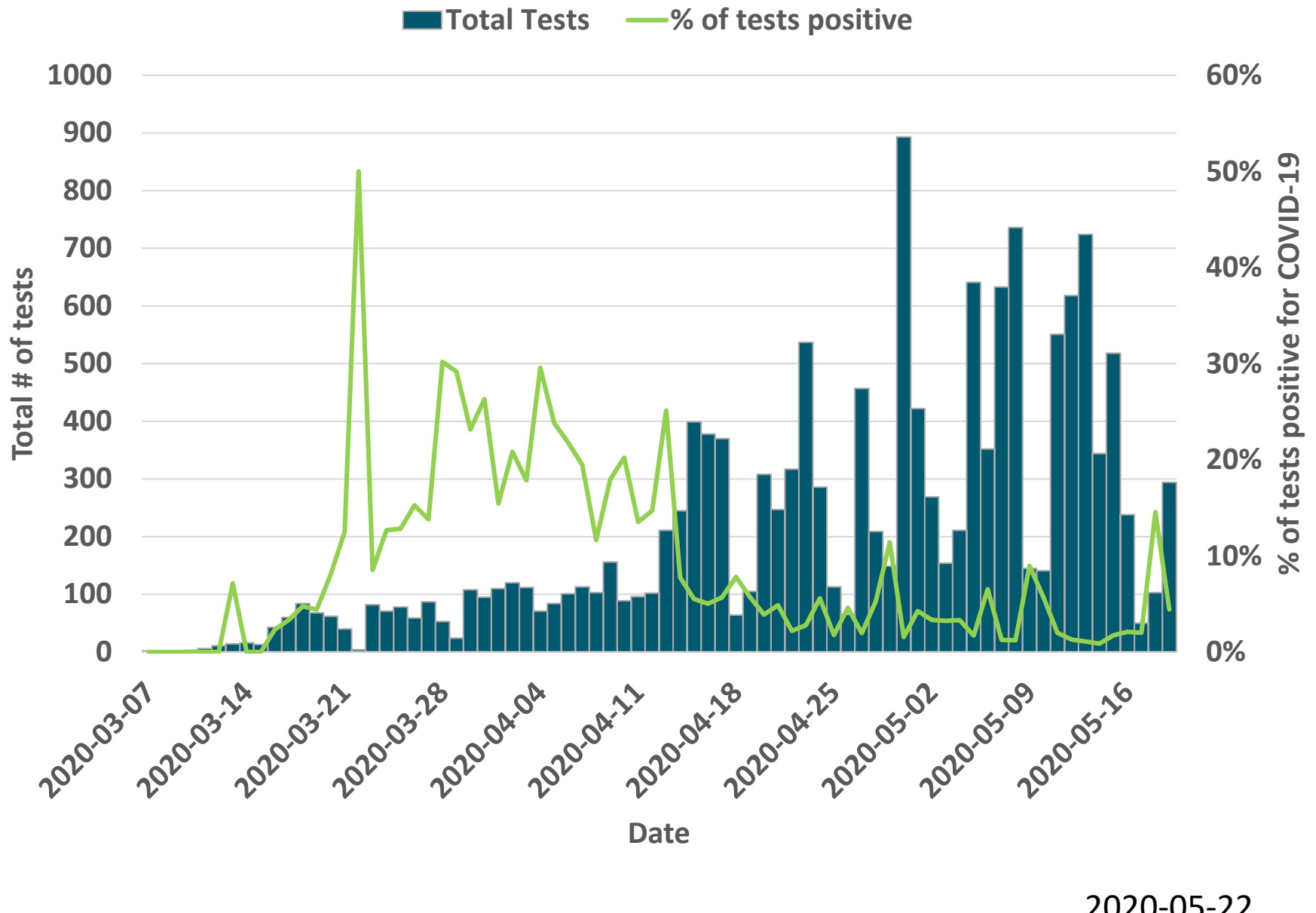
2020-05-22



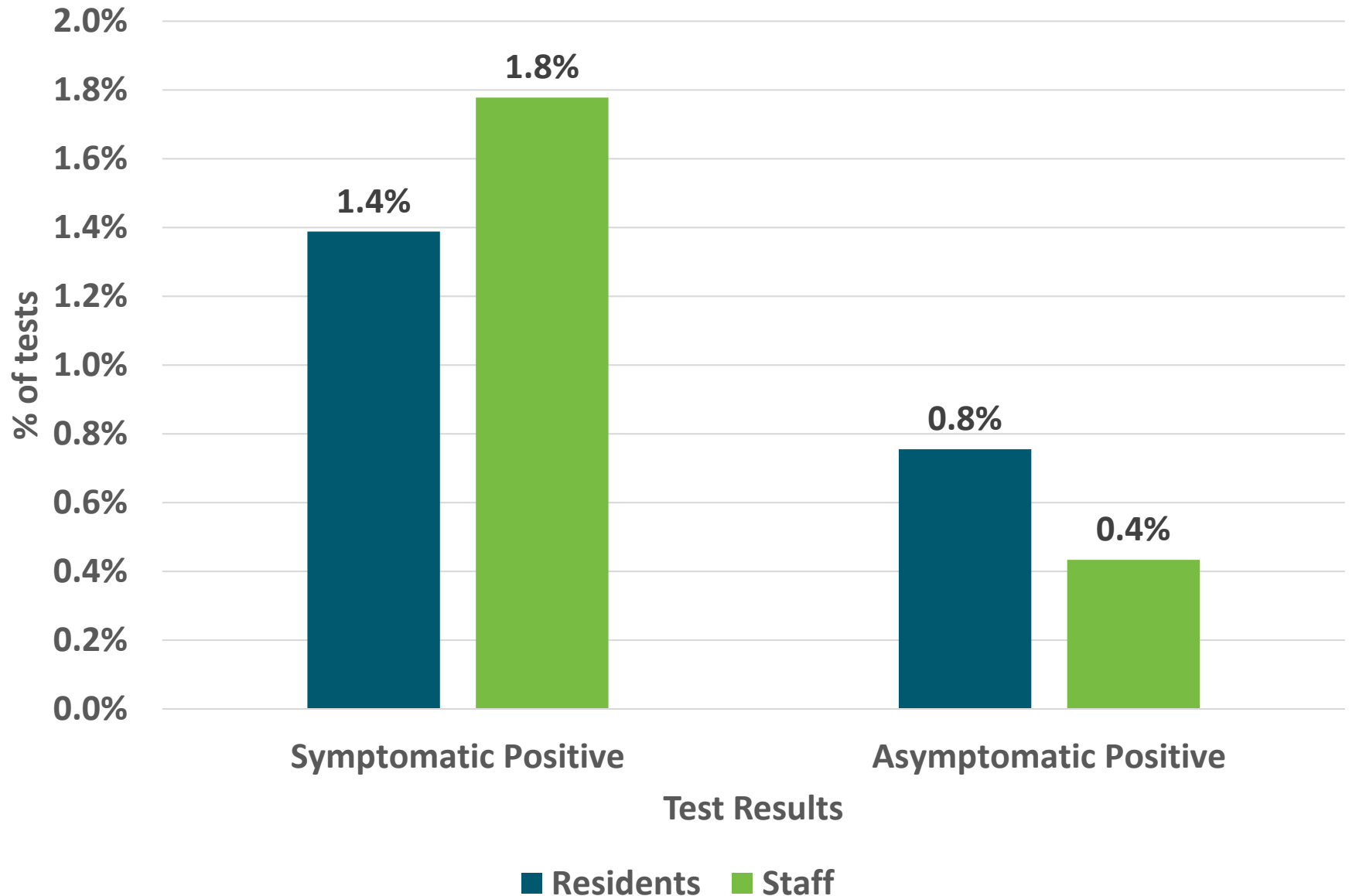
# Regional & Provincial Rates



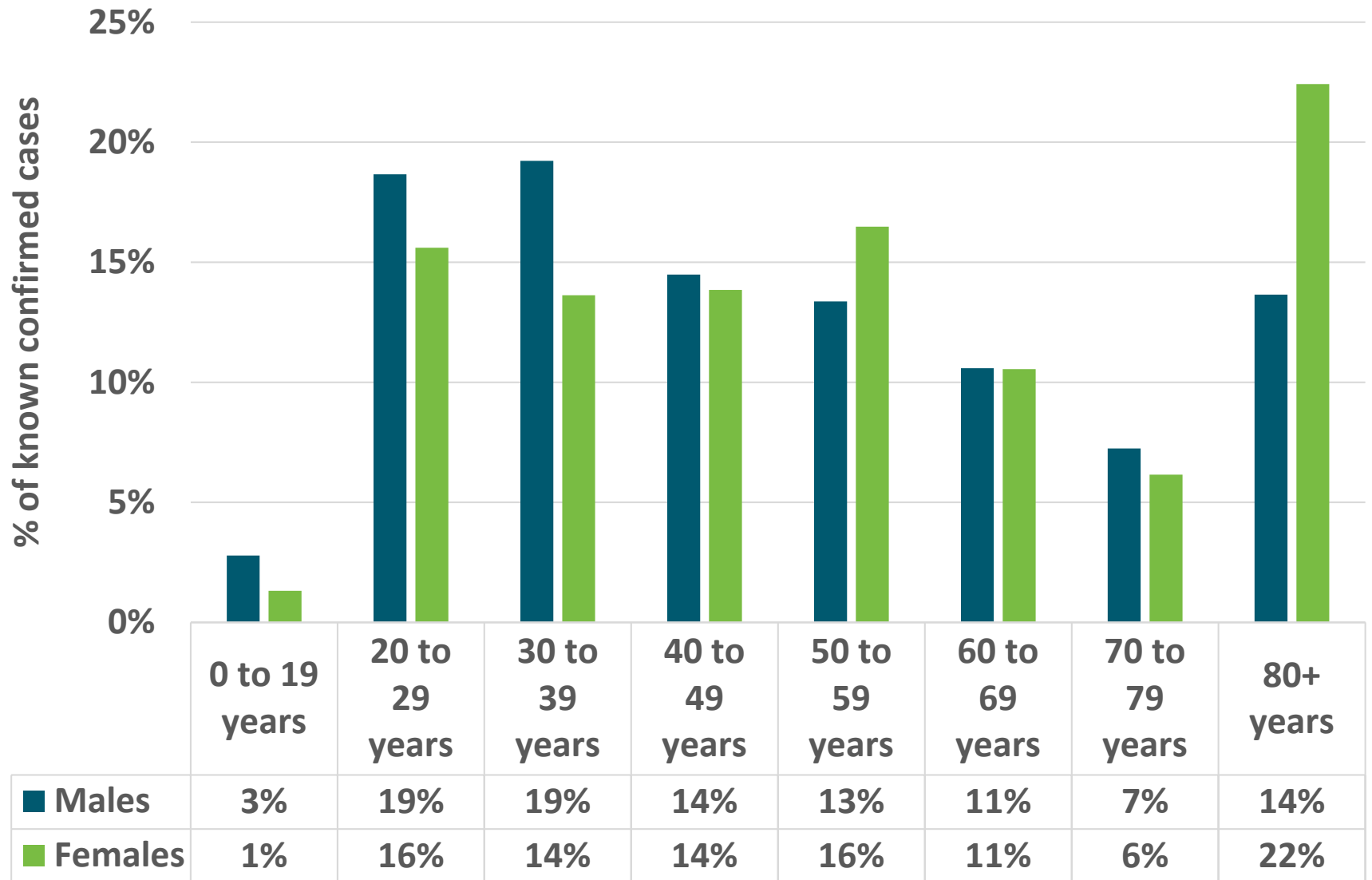
# Percent Positivity of People Tested for COVID-19



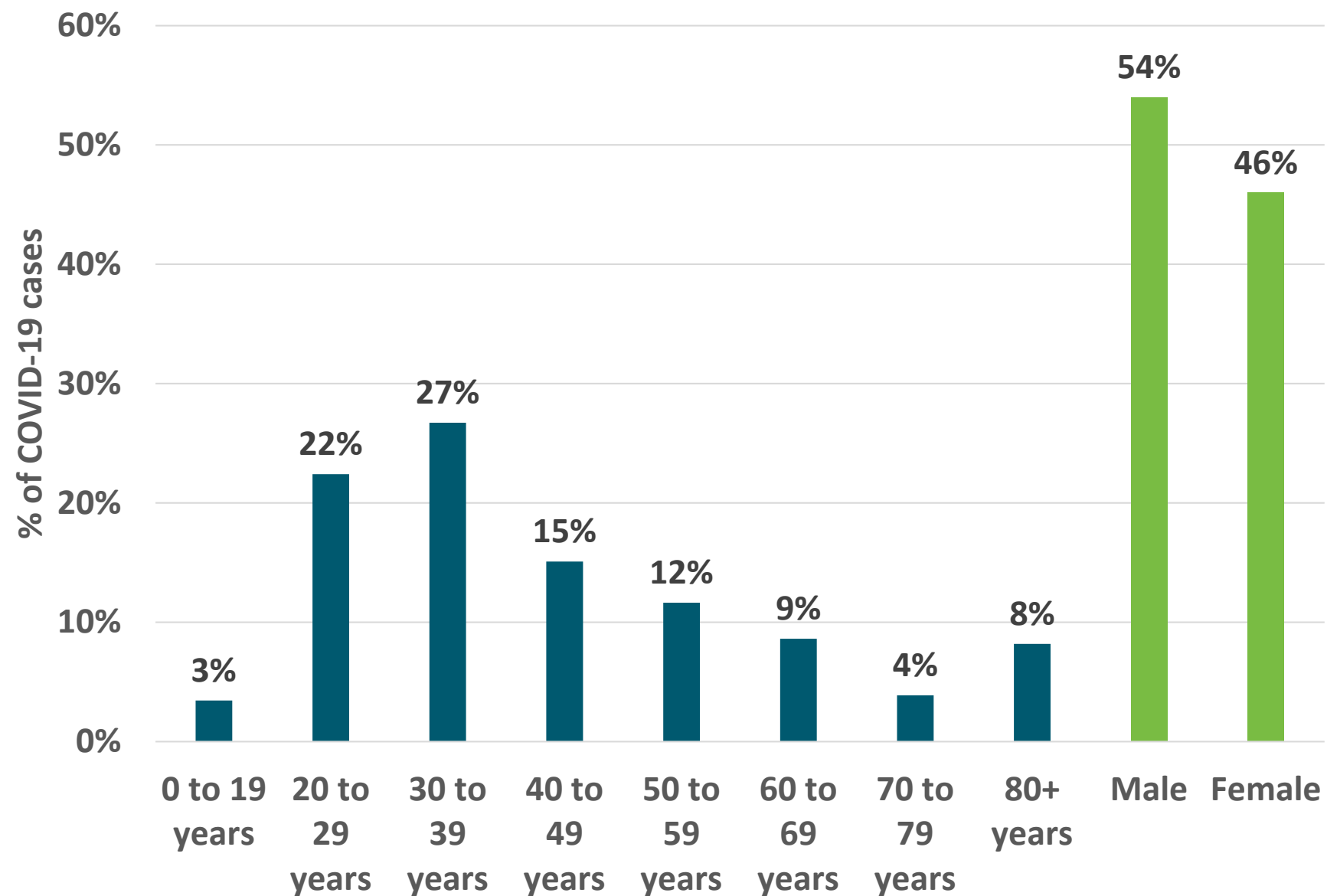
# Symptomatic Vs. Asymptomatic Positives



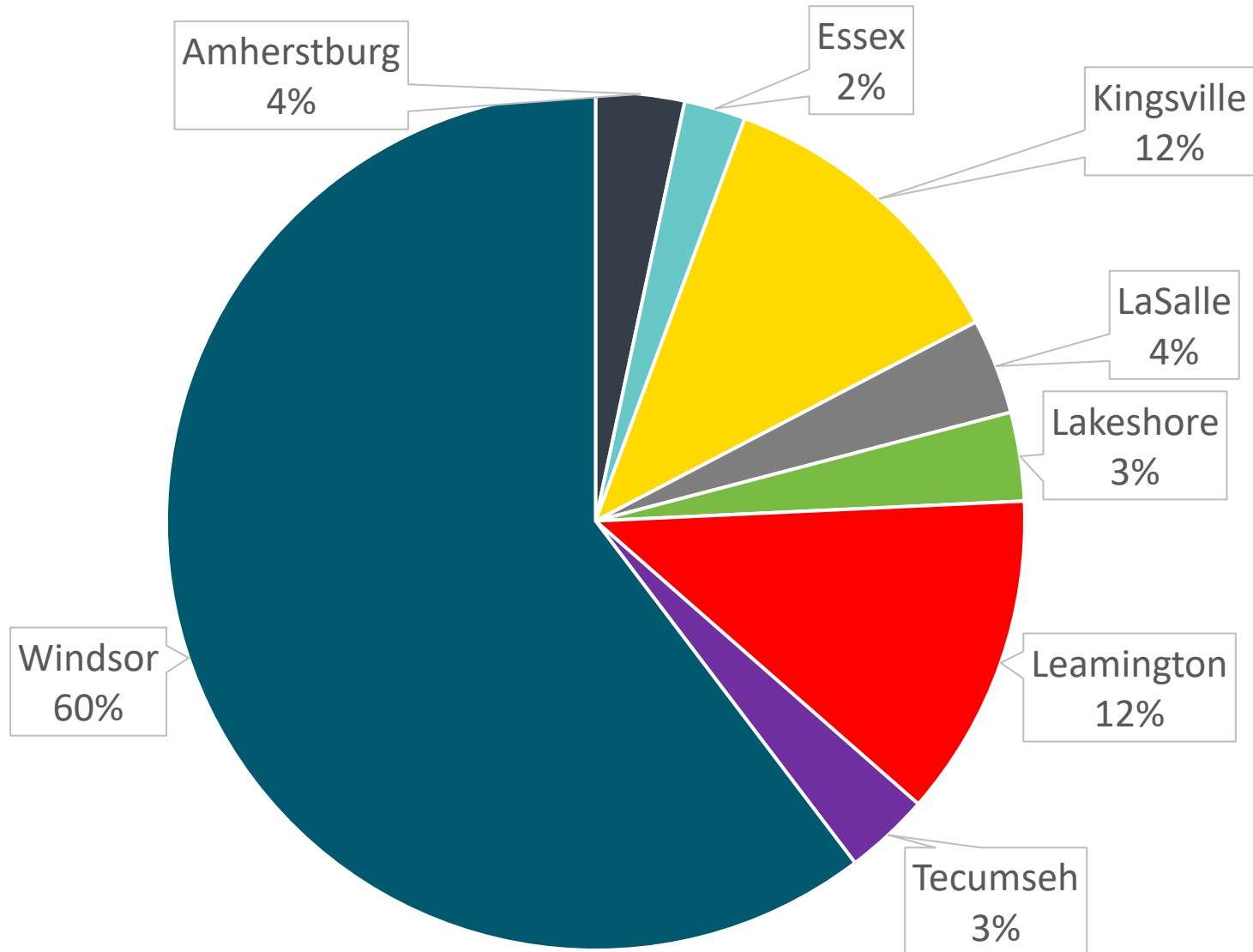
# Age & Sex Distribution



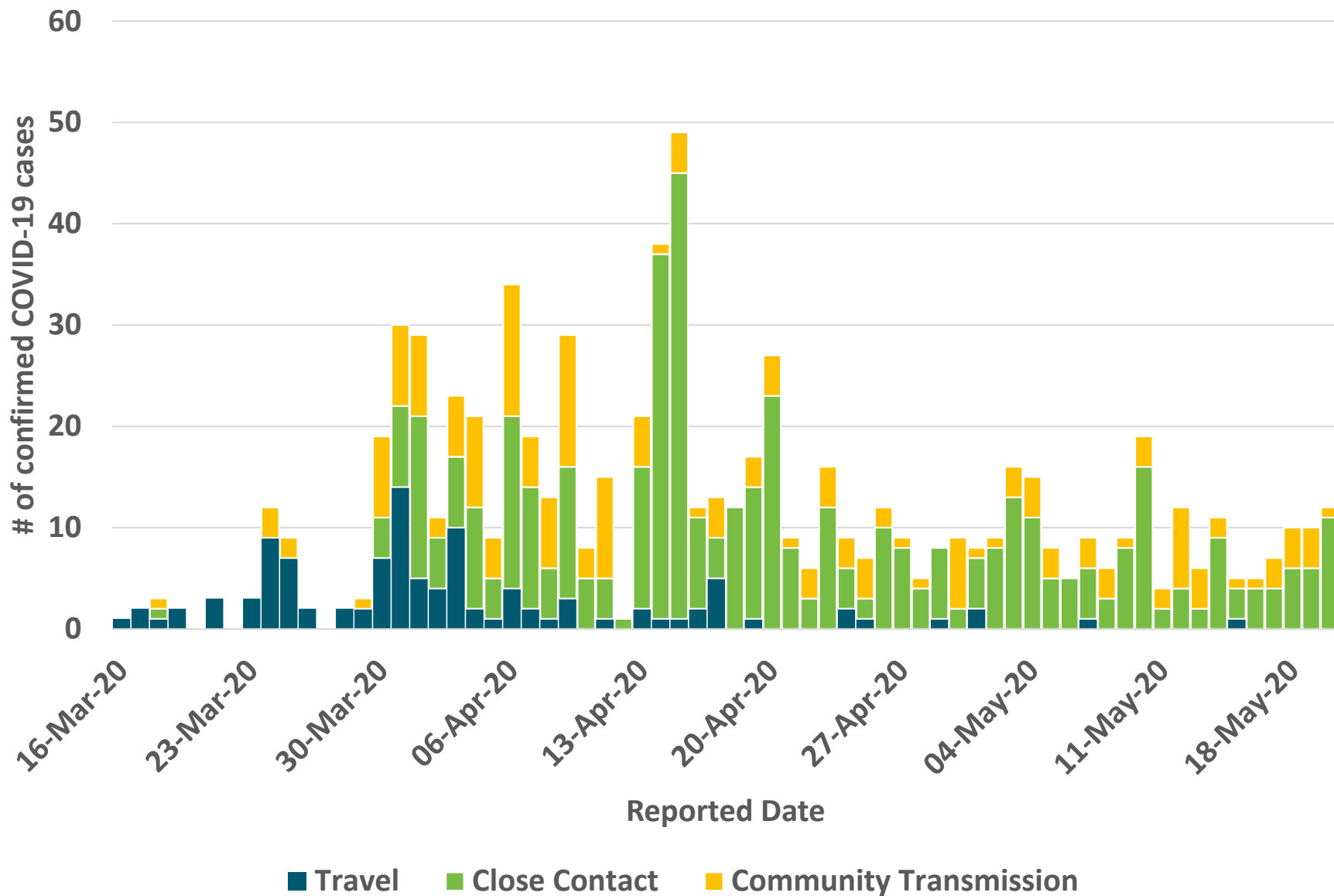
# Age & Sex Distribution (May 1 to May 21)



# Distribution of COVID-19 Cases by Municipality

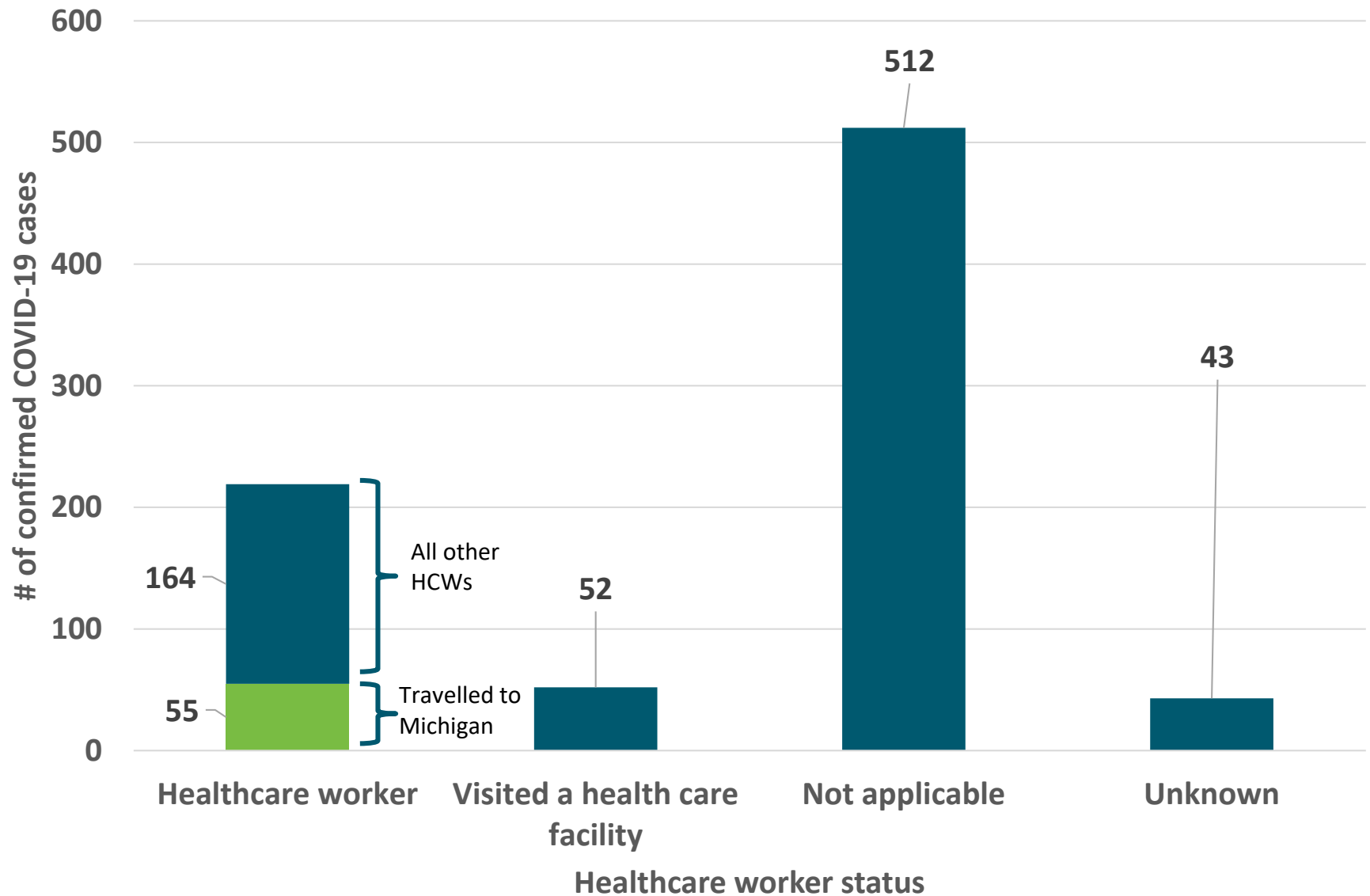


# Exposure History by Reported Date



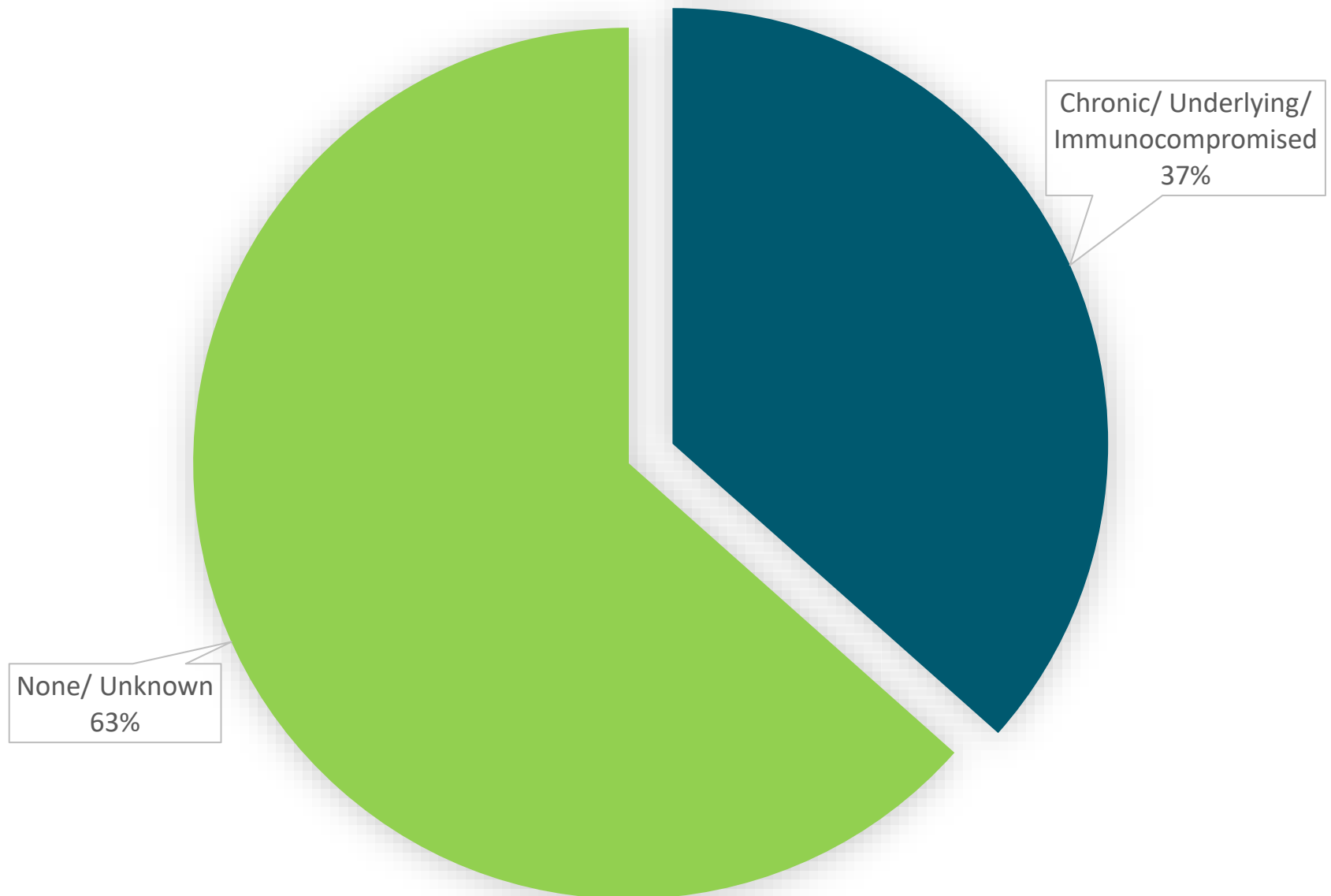
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# COVID-19 Cases by Healthcare Worker

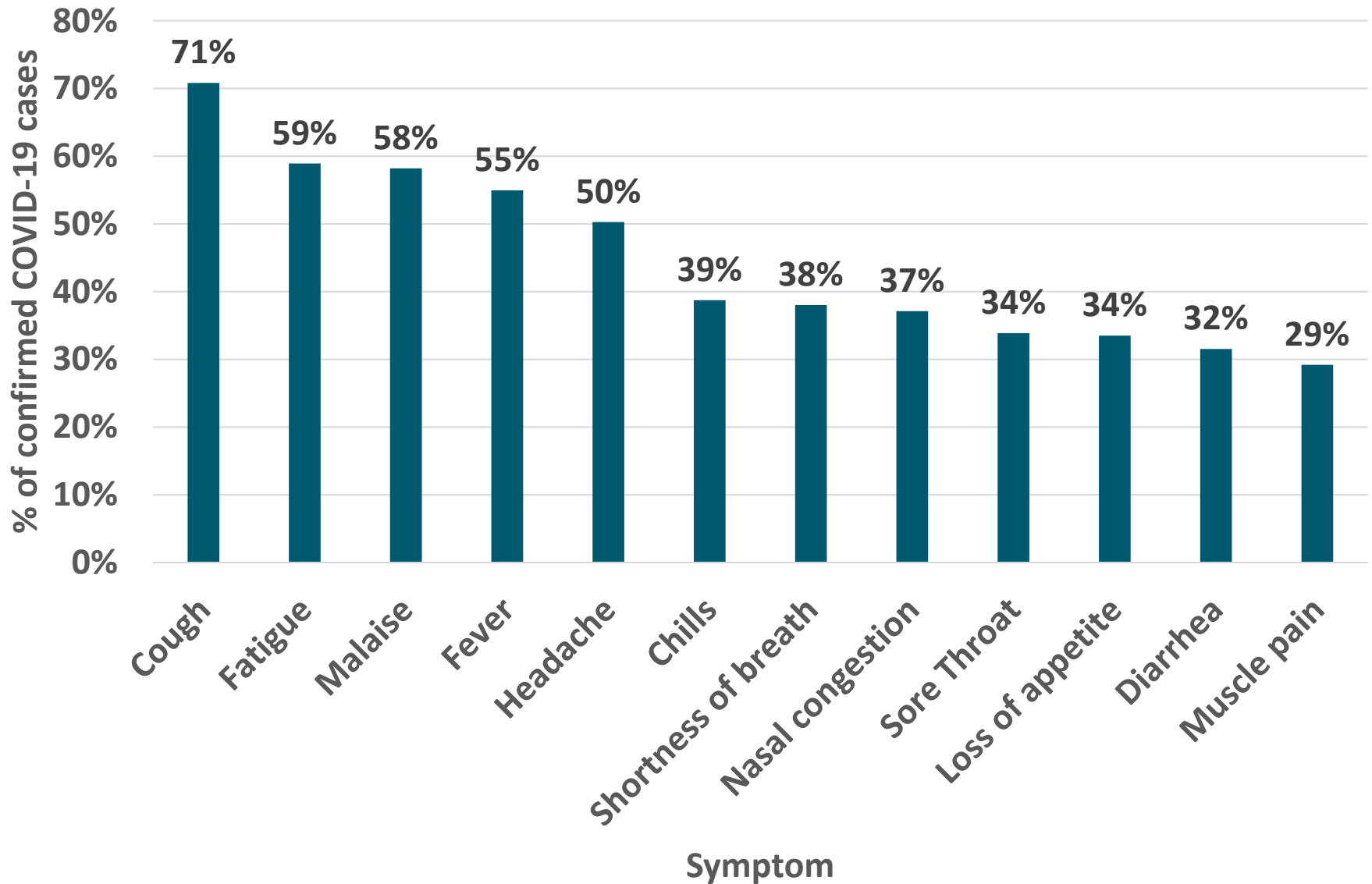




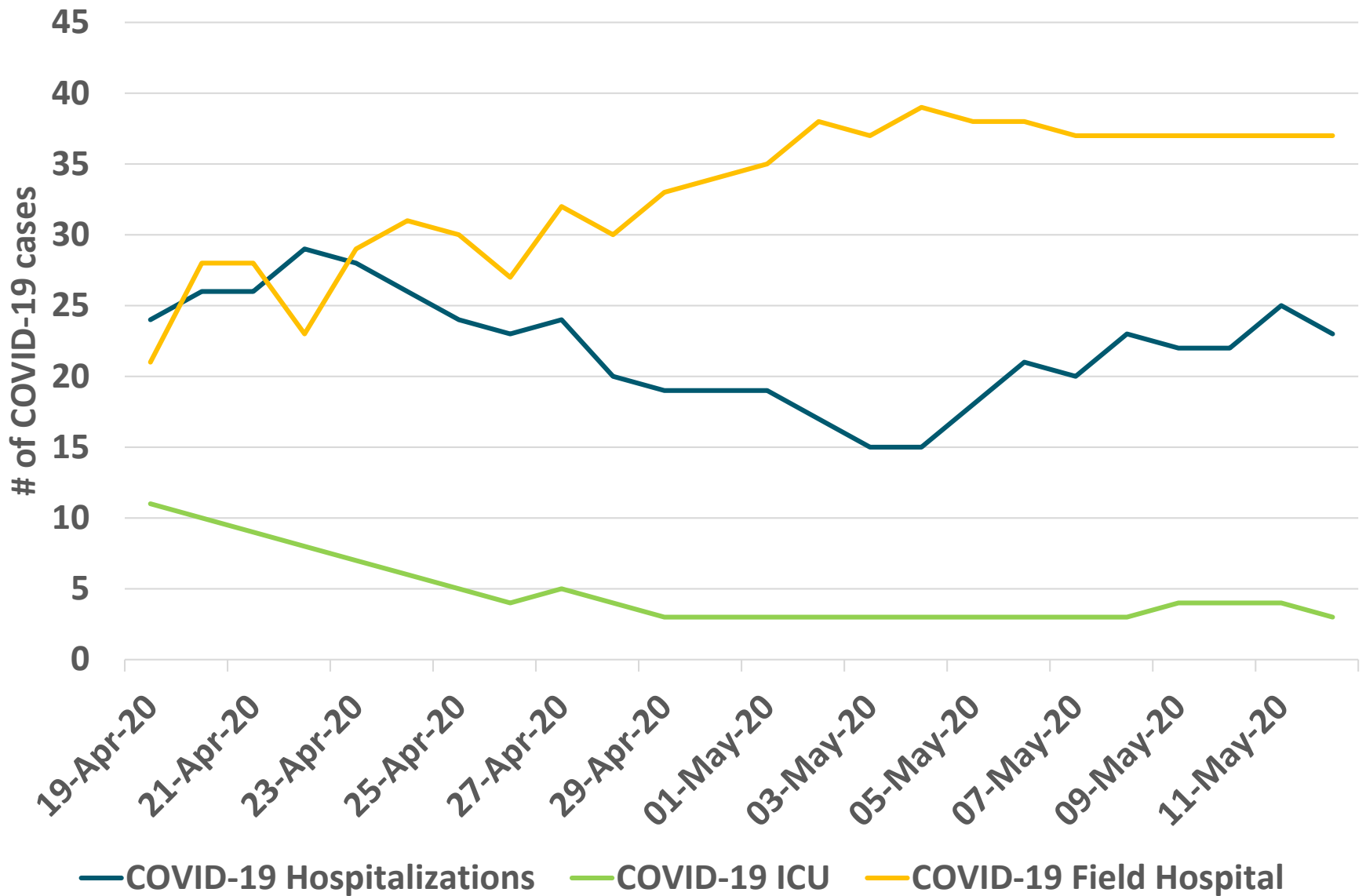
# Underlying Health Conditions



# Most Common Symptoms

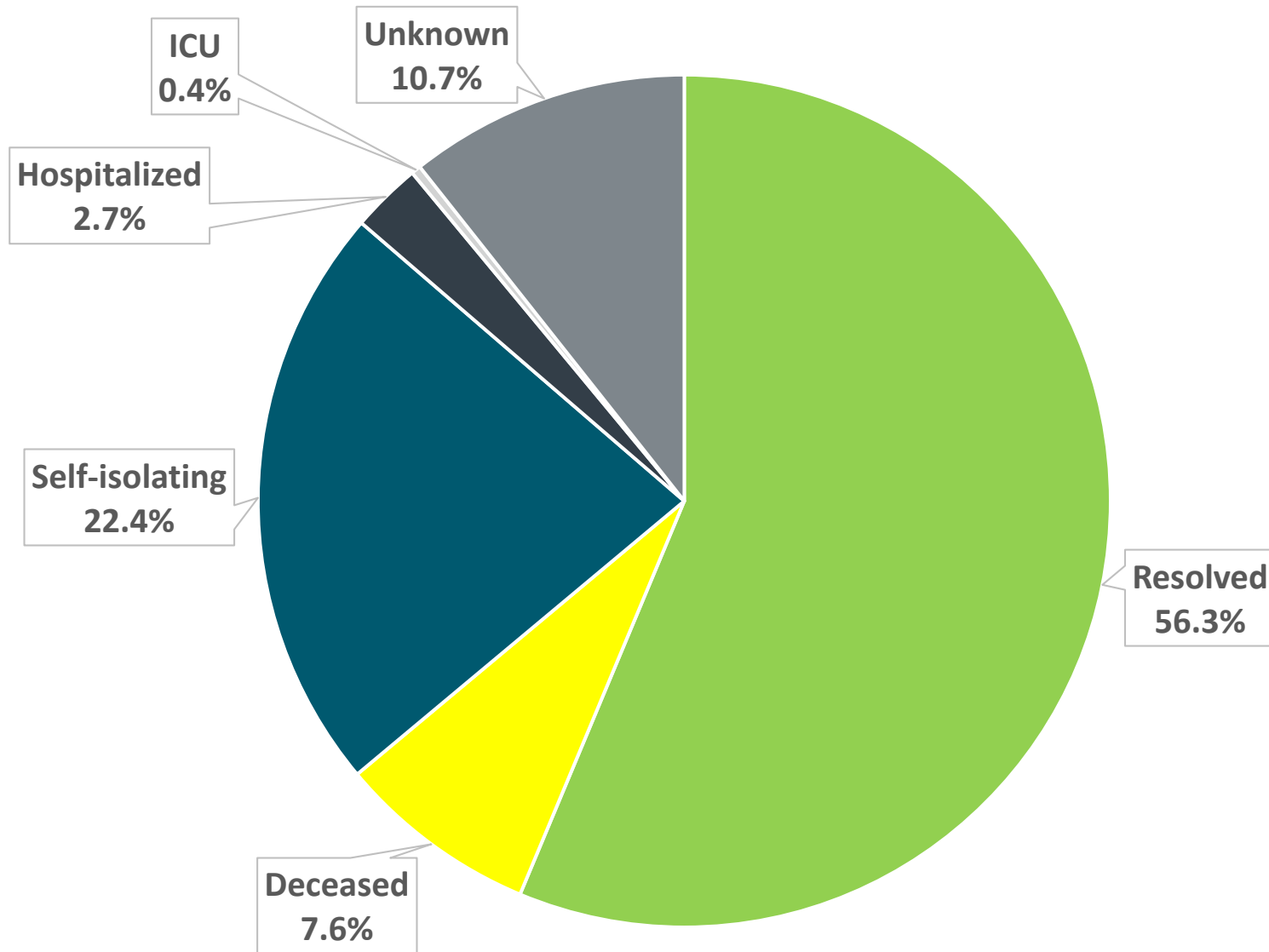


# Hospitalizations

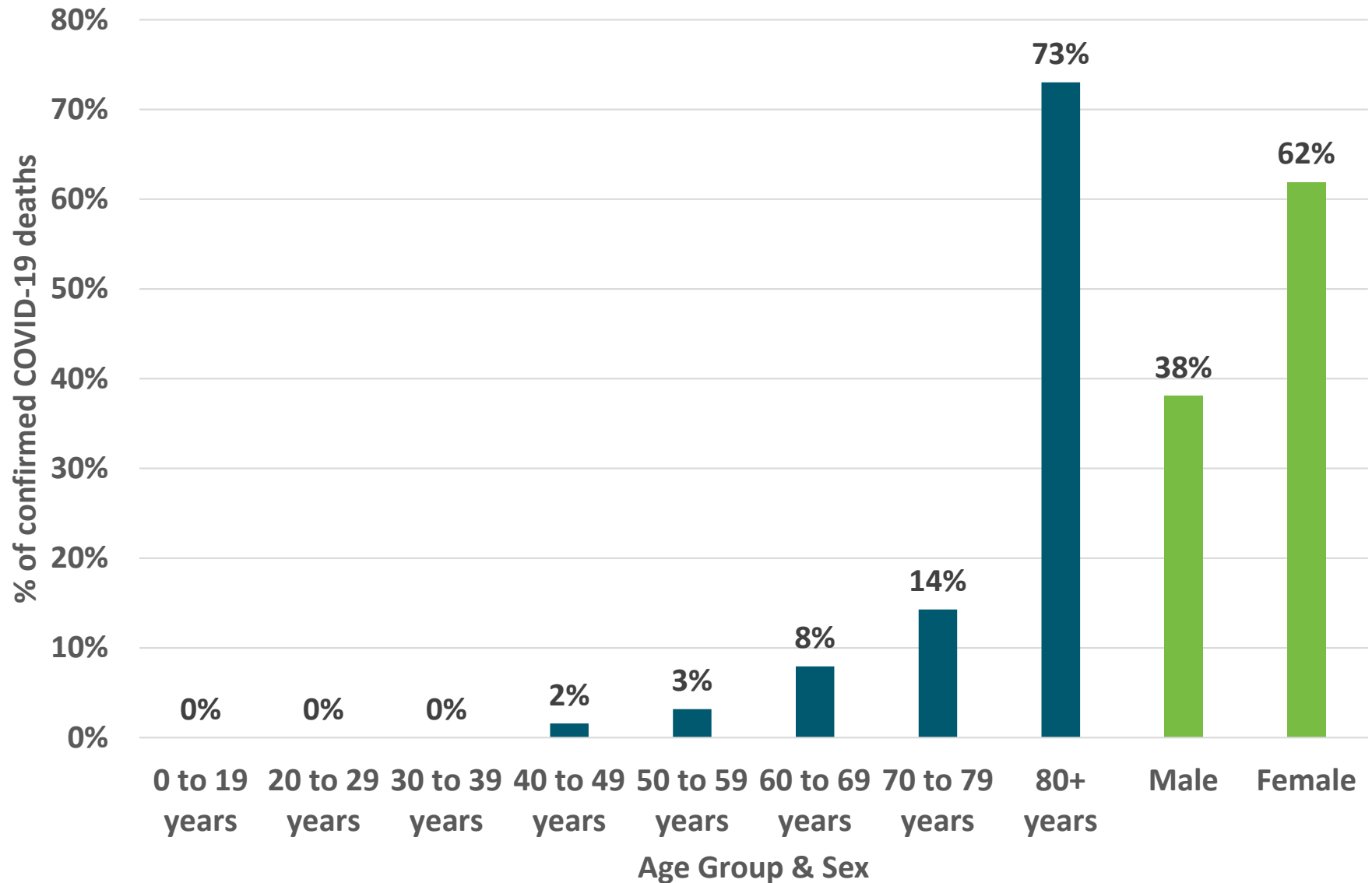


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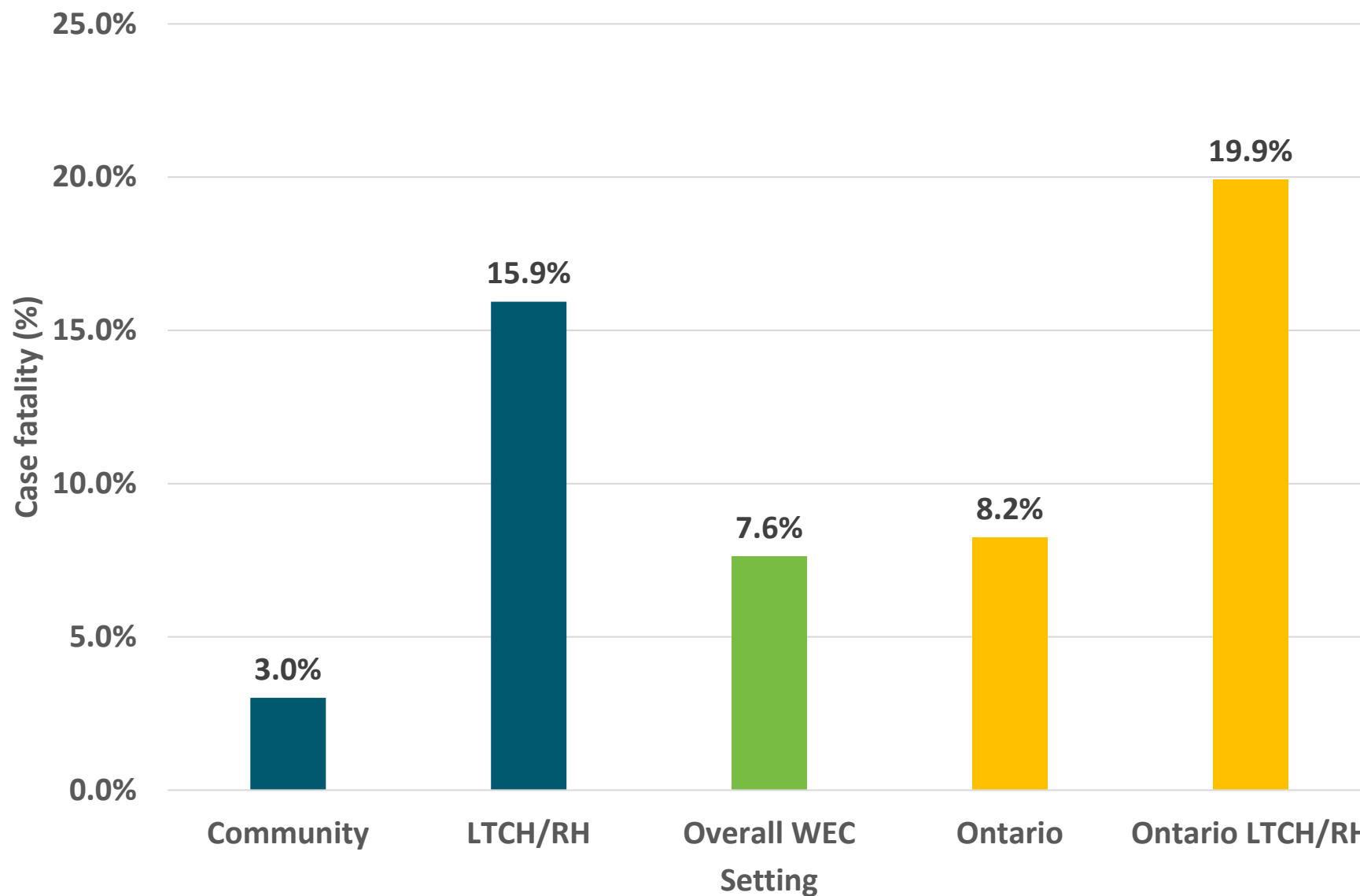
# Current Outcomes



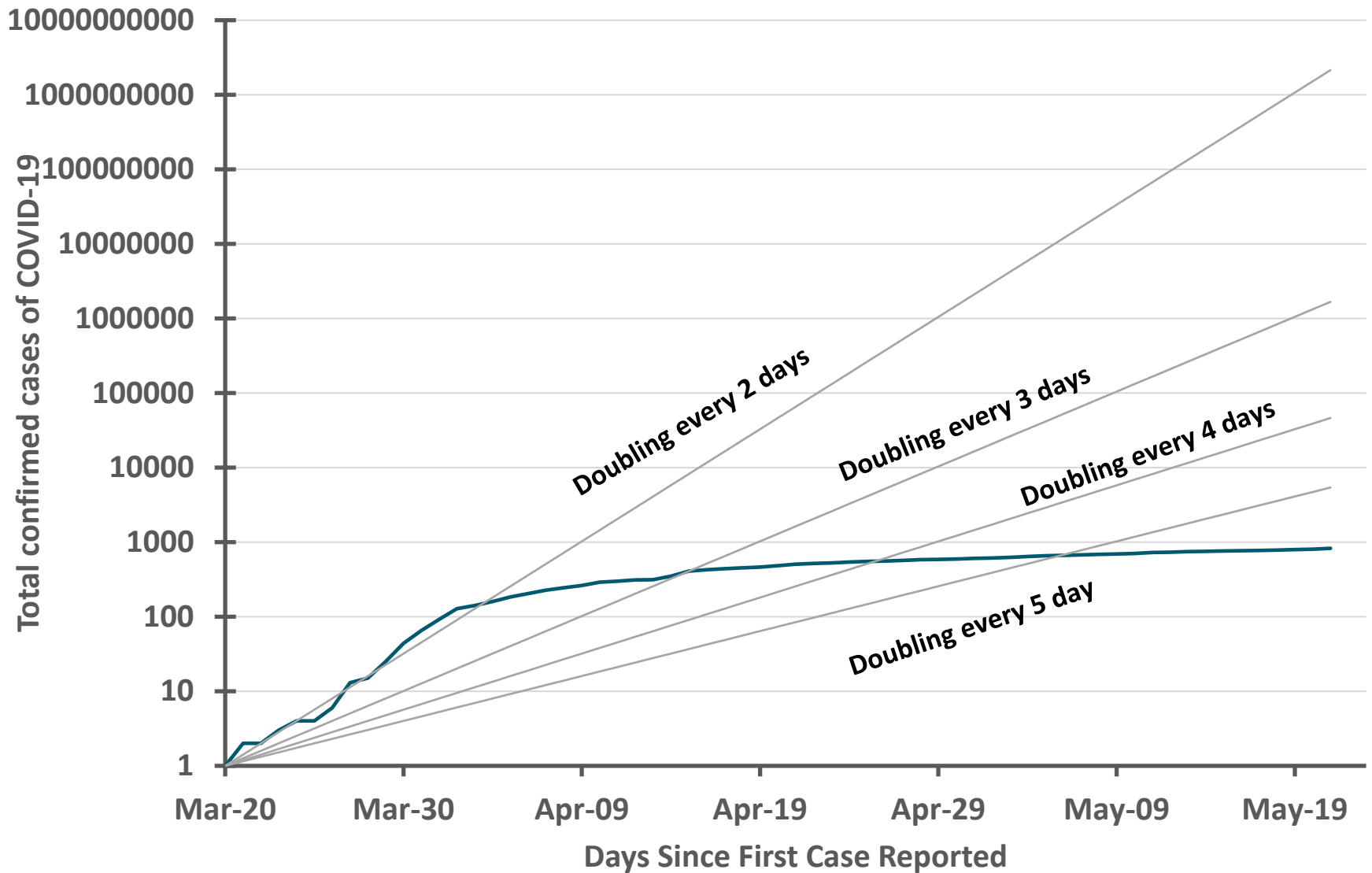
# Age & Sex Breakdown of COVID-19 Deaths



# Case Fatality Rate

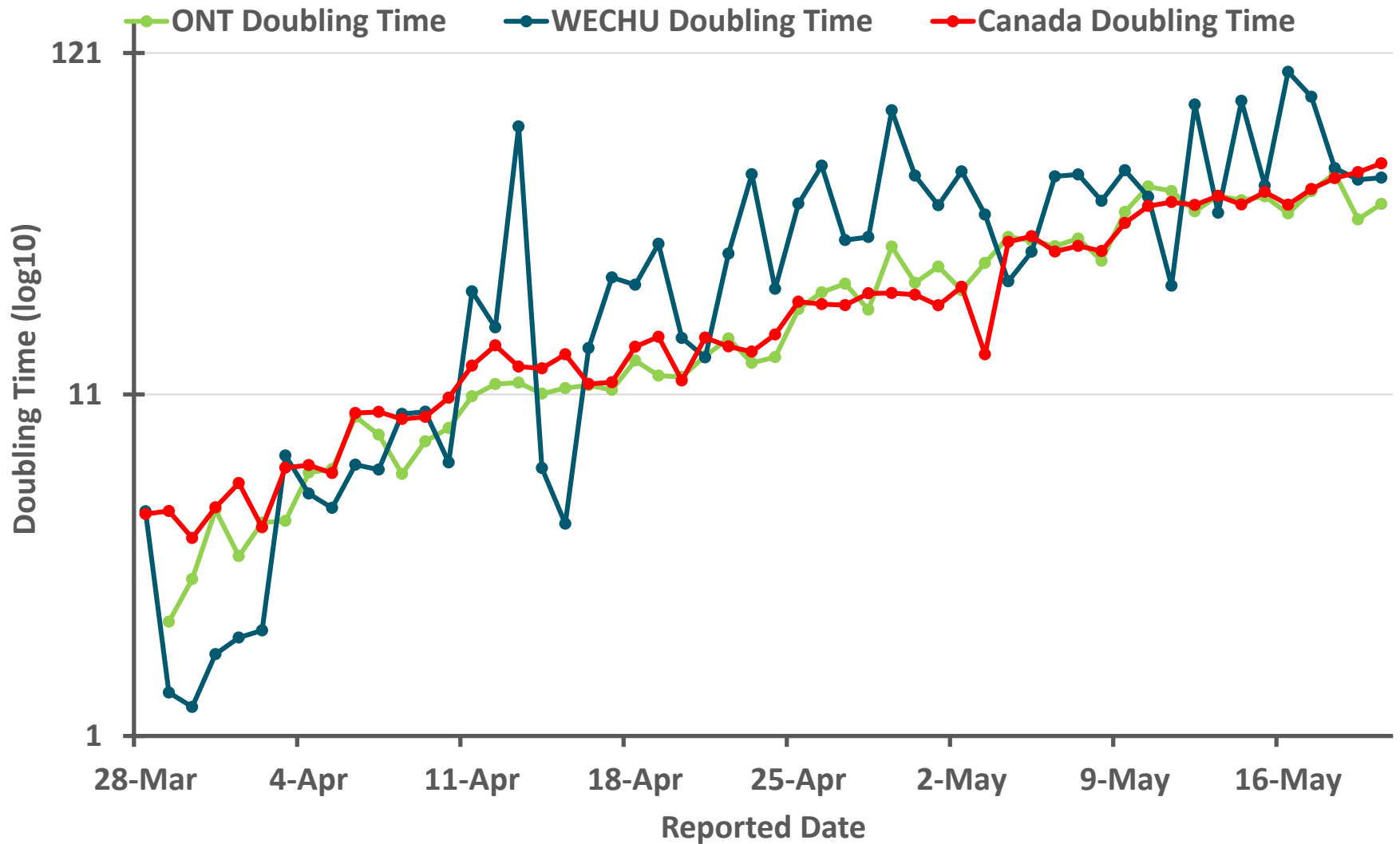


# Doubling Time (Cumulative Comparison)



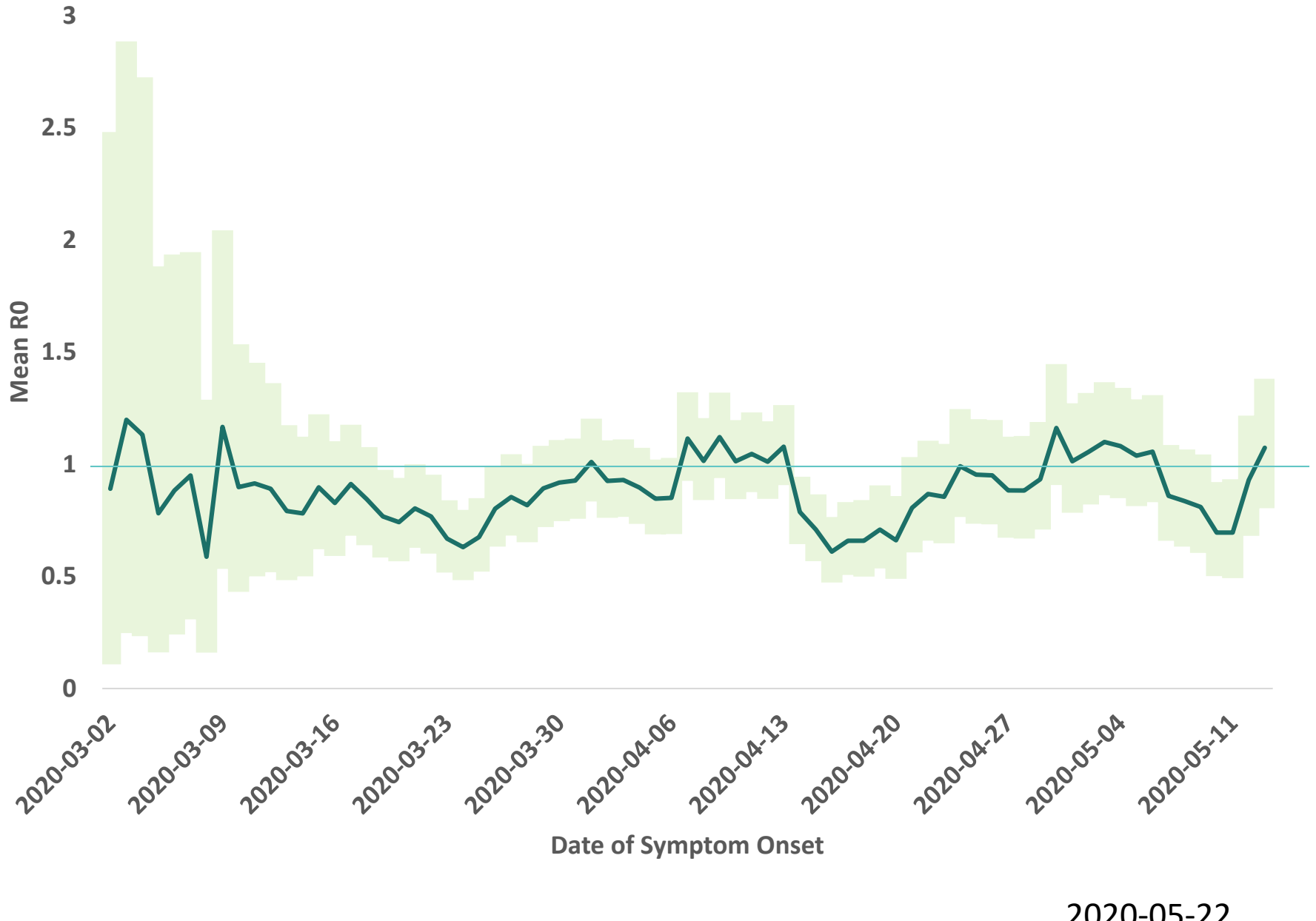
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# Doubling Time (Day over Day Comparison)





# Mean R0 (Effective)



# Summary

- Case counts locally continues to show an overall declining trend with day-to-day fluctuations
- Windsor-Essex has the 4<sup>th</sup> highest rate in the province
- 56% of overall COVID-19 cases have resolved
- Overall case-fatality rate is slightly lower in Windsor-Essex compared to Ontario.
- Doubling time of cases is generally similar to the province and the country
- Current  $R_0$  (effective) is slightly greater than 1 signaling community spread is still occurring