

## COVID-19 Windsor and Essex County: March 20, 2020 to June 26, 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 [2020/06/26].
- Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Windsor-Essex County Health Unit [2020/06/26].
- Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic Summary: COVID-19 in Ontario – January 15, 2020 to June 24, 2020). Toronto, ON: Queen's Printer for Ontario; 2020.

### Highlights

- At the time of reporting, there are 1,369 confirmed cases of COVID-19 in WEC between March 20<sup>th</sup> and June 25<sup>th</sup>.
- Based on the 7-day moving average, WEC is continuing to see a peak in cases in June though it has declined in the past week.
  - If agri-farm workers are excluded, the 7-day moving average stabilizes to approximately five cases
- As of June 25<sup>th</sup>, there were 300 cases in long-term care and retirement homes (including staff and residents) and 477 cases among agri-farm workers.
- Windsor and Essex County has the 4<sup>th</sup> highest incidence rate in the province and is higher than the Ontario rate.
- In the last two weeks, 82% of the cases reported were among males and 18% were among females.
  - 61% of the cases during this time period were among adults 20 to 39 years of age.
- Overall, approximately 41% of the cases reside in the City of Windsor, 14% in Kingsville and another 30% in Leamington.
  - In the past 30 days, however, 50% of the cases have been from Leamington and 33% from Kingsville
  - In the past 7 days, however, 55% of the cases have been from Kingsville and 31% from Leamington.
- 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 (68%) was the most commonly reported symptom among cases with COVID-19 reporting any symptoms followed by fever (49%), malaise (45%) and fatigue (44%).

- COVID-19 cases that are hospitalized have declined sharply in the past two week while ICU cases have stabilized to zero COVID case in the last 7-days
- Approximately 35% of cases are still in self-isolation while 59% of cases have resolved.
- The overall case fatality rate in WEC is 5.0%, lower than the province (7.7%).
- The day-over-day doubling time has been trending positively in Canada and in Ontario. In Windsor-Essex, after weeks of observing shorter doubling rates, doubling time has increased.
- The mean  $R_0$  (effective) value is 1.01 and has increased from last week. However, for the past two weeks we have seen fluctuations with this number.



# COVID-19 *LIVE UPDATE*

June 26, 2020

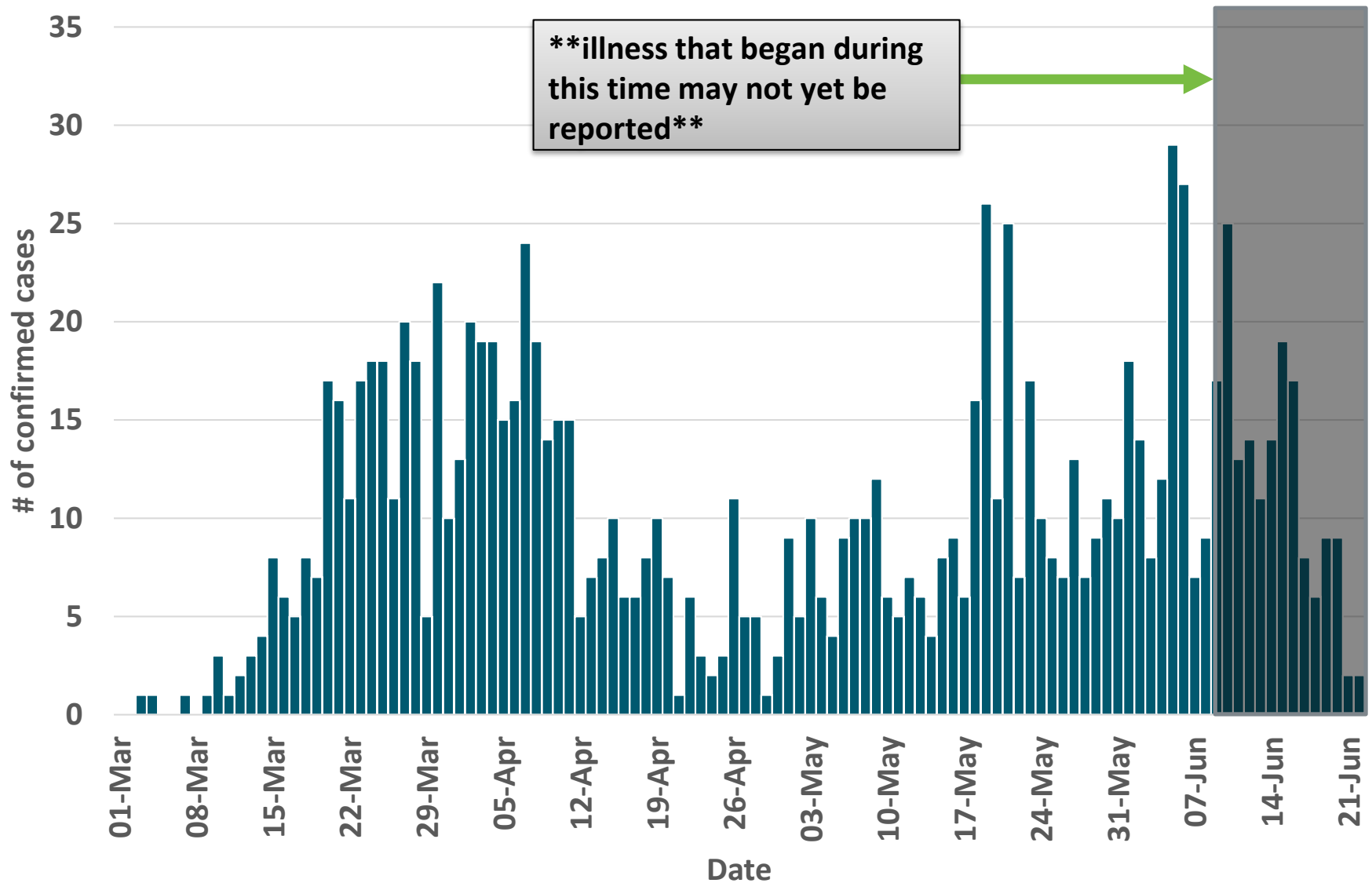
FOR UP-TO-DATE  
CASE NUMBERS  
VISIT  
**[wechu.org](https://wechu.org)**

# COVID-19 Epidemiological Summary

Content covered:

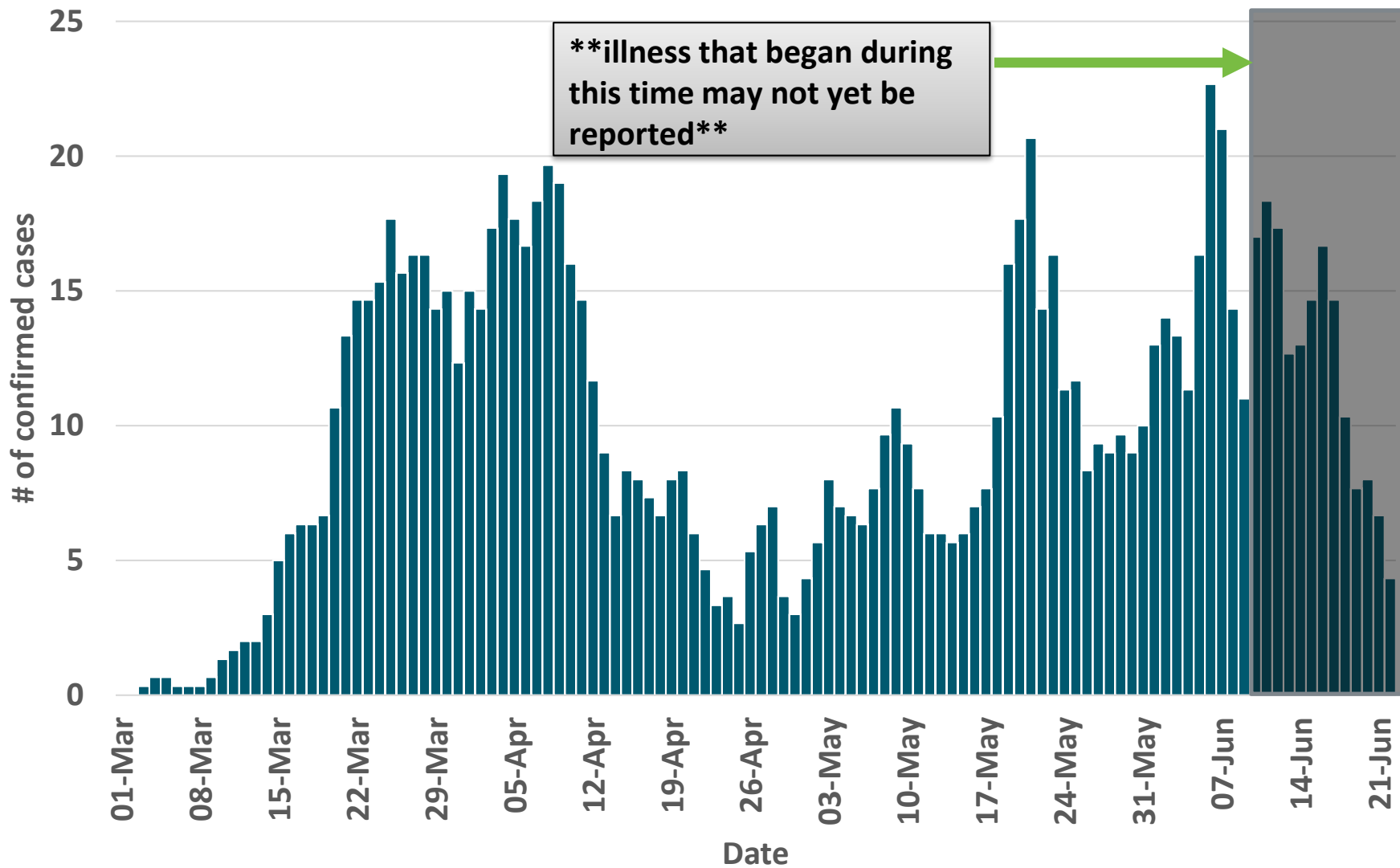
- Epidemic curves
- Regional & provincial rates
- Positive test turnaround time
- Case investigation time
- Age & sex distribution
- Distribution by municipality
- Exposure history
- Healthcare worker status
- Underlying conditions
- Top symptoms
- Hospitalizations & ICU
- Healthcare system capacity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

# Epidemic Curve by Symptom Onset Date



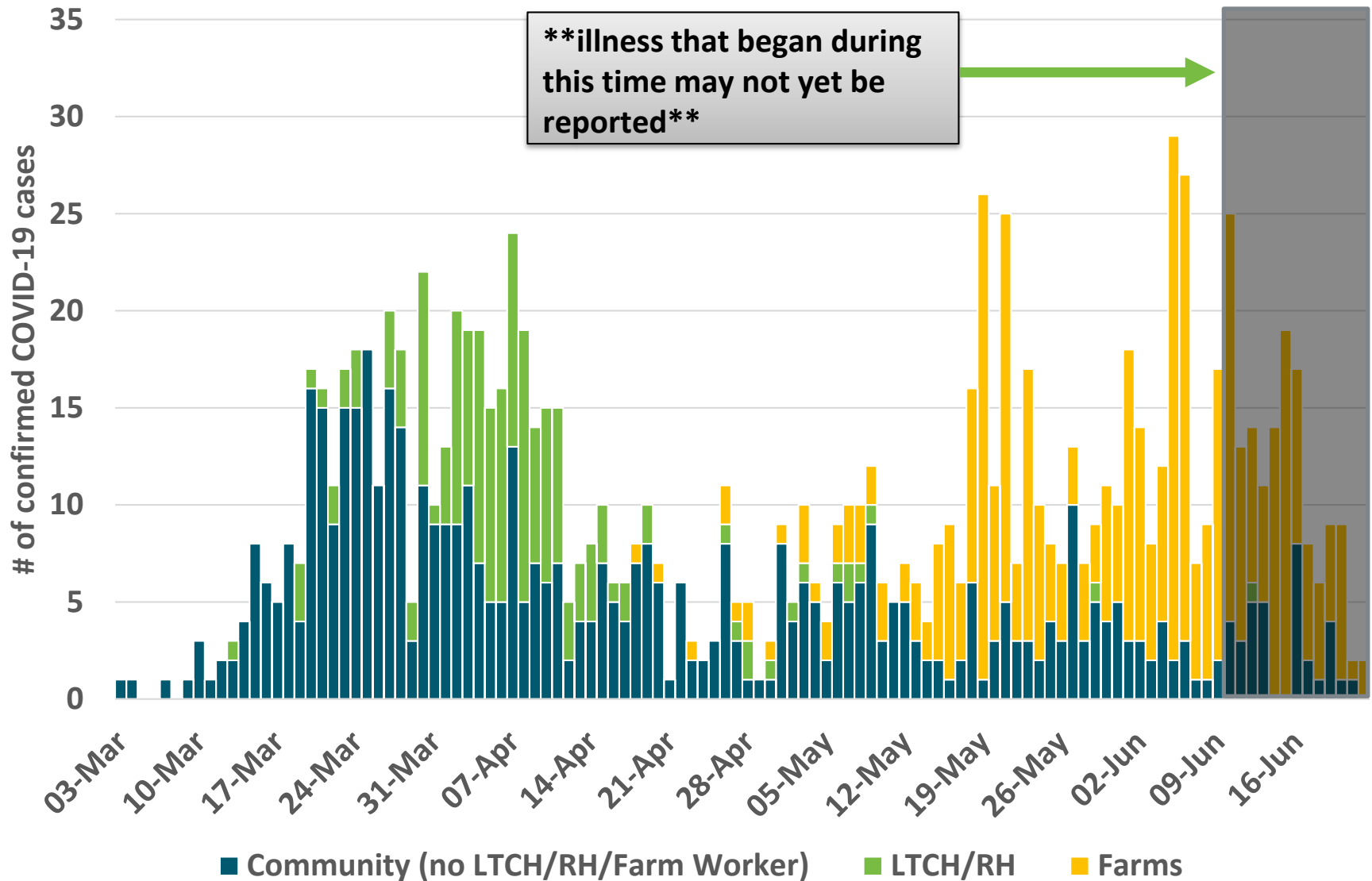
2020-06-29

# Epidemic Curve by 3-Day Moving Average by Symptom Onset



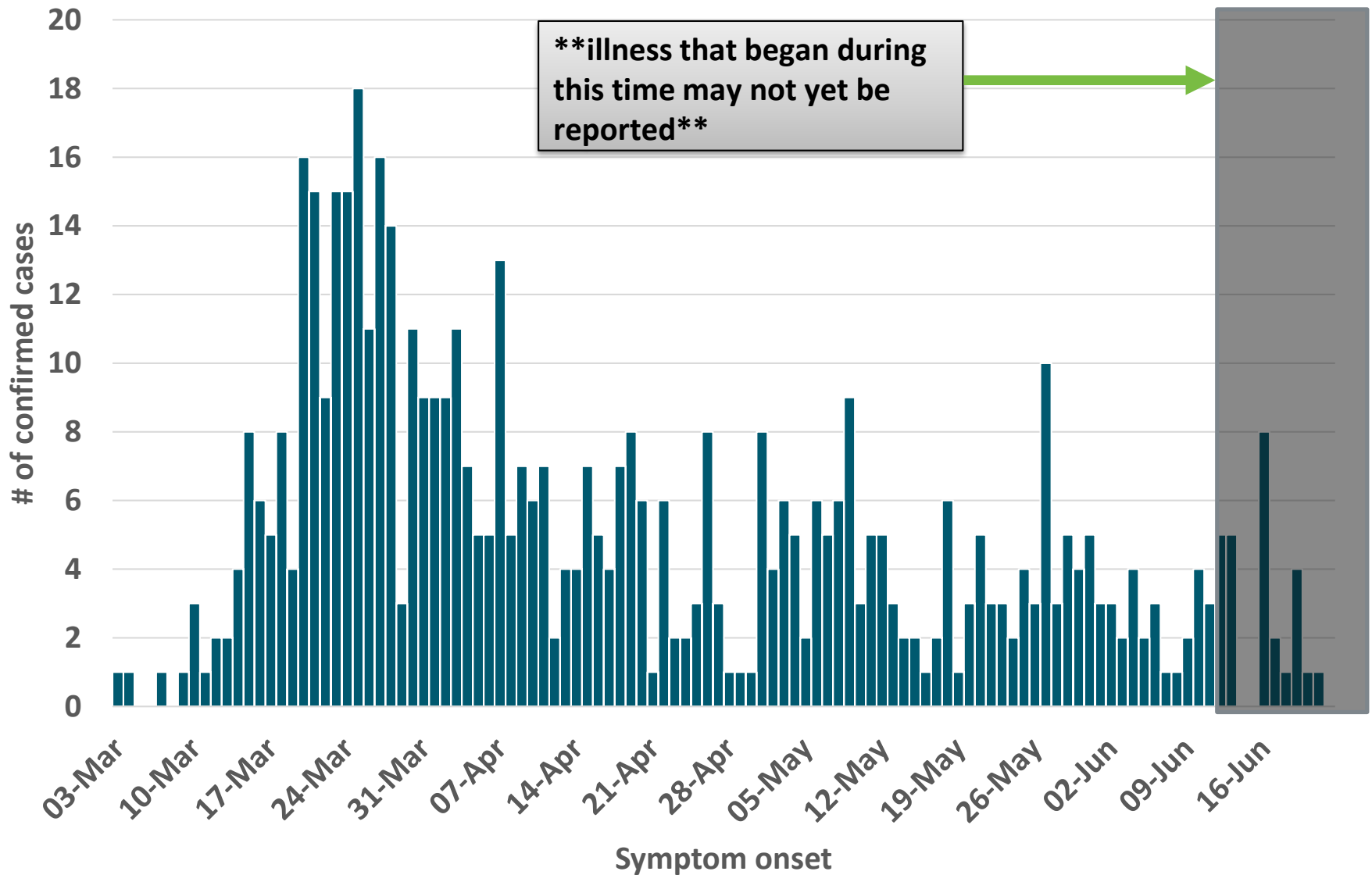
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# Epidemic Curve by Community vs. LTCH/RH vs. Agri-Farms by Symptom Onset



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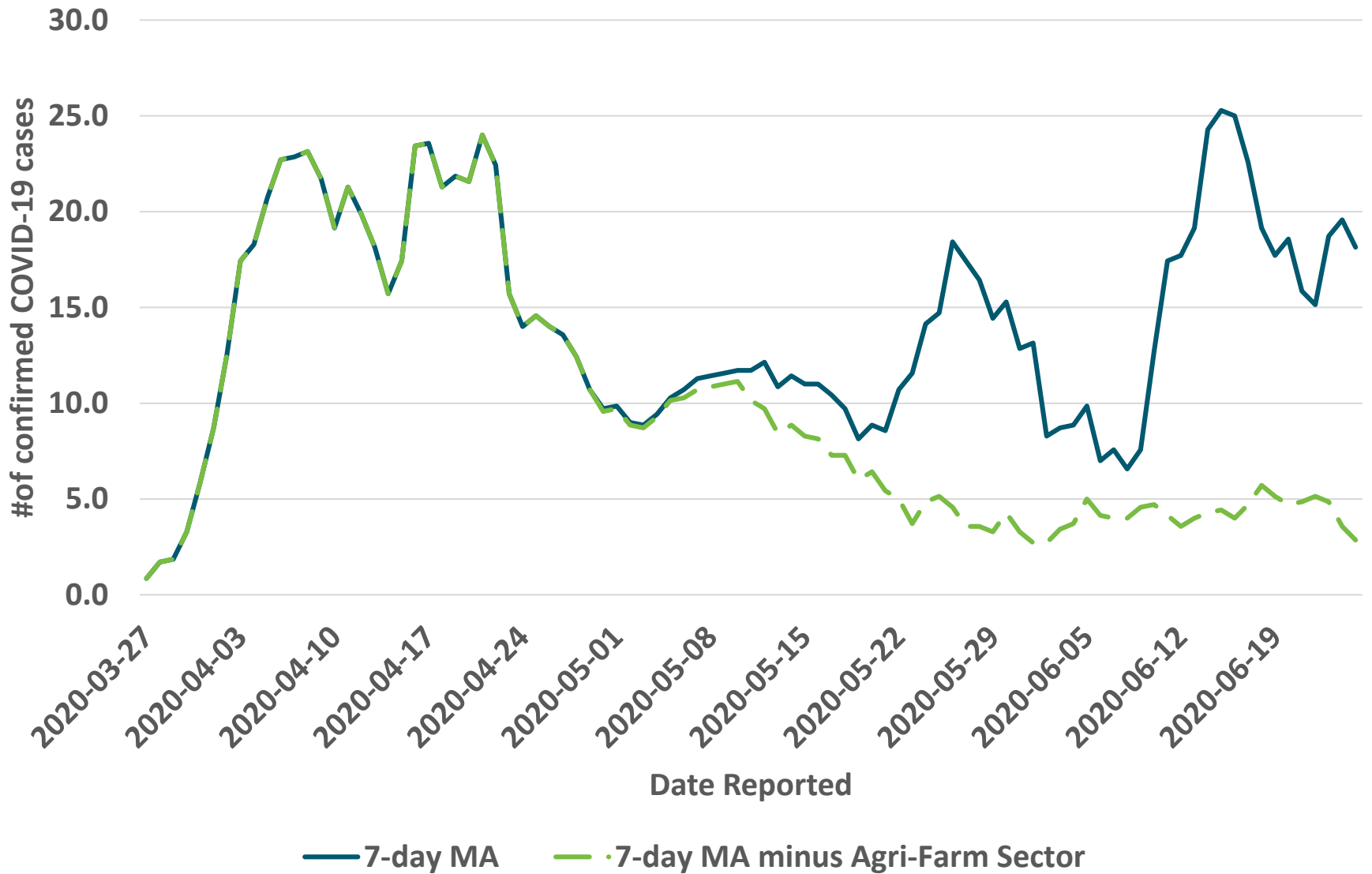
# Epidemic Curve by Community and Symptom Onset (no LTCH/RH or Agri-Farm)



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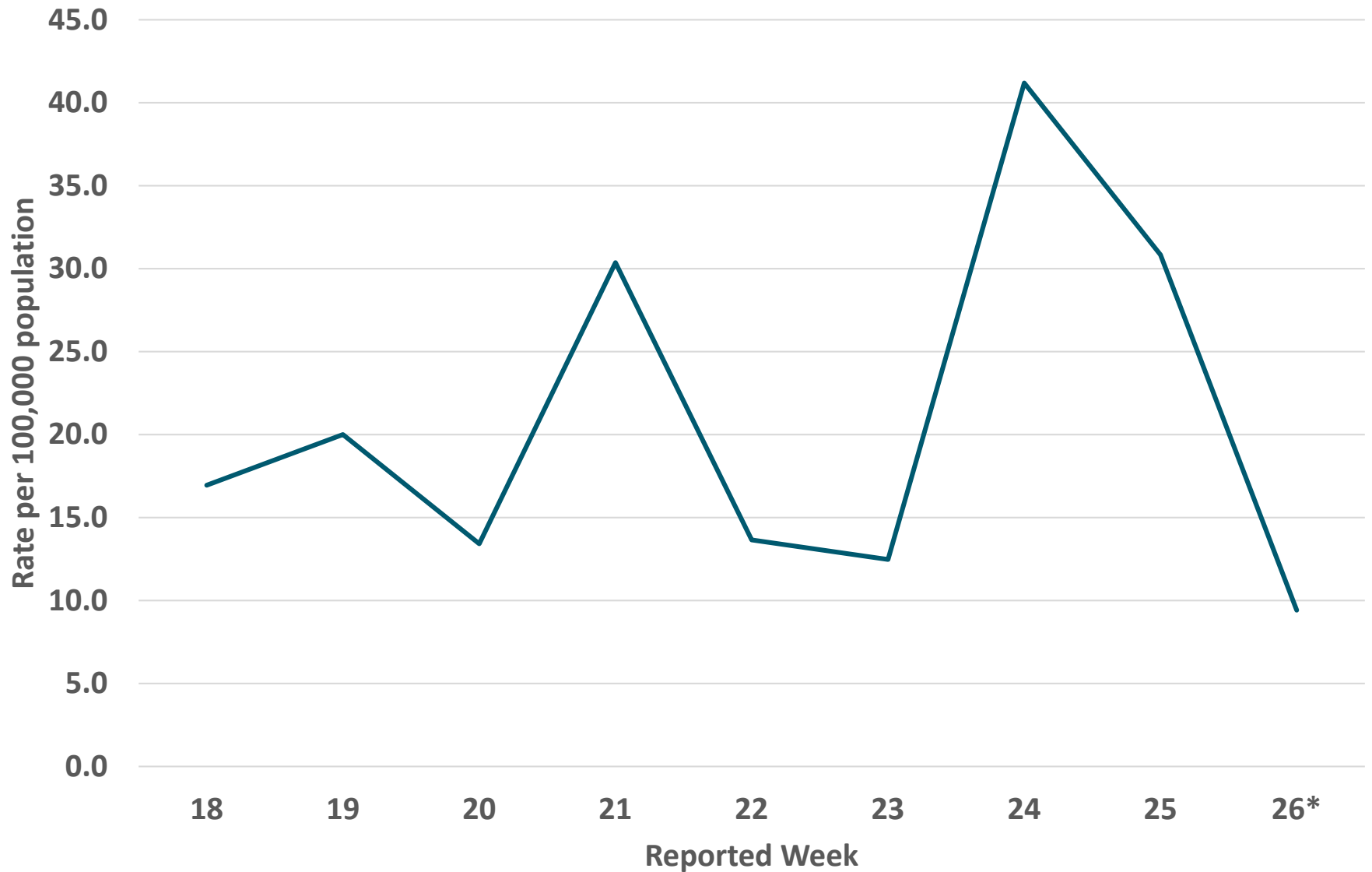


# 7-Day Moving Average by Reported Date



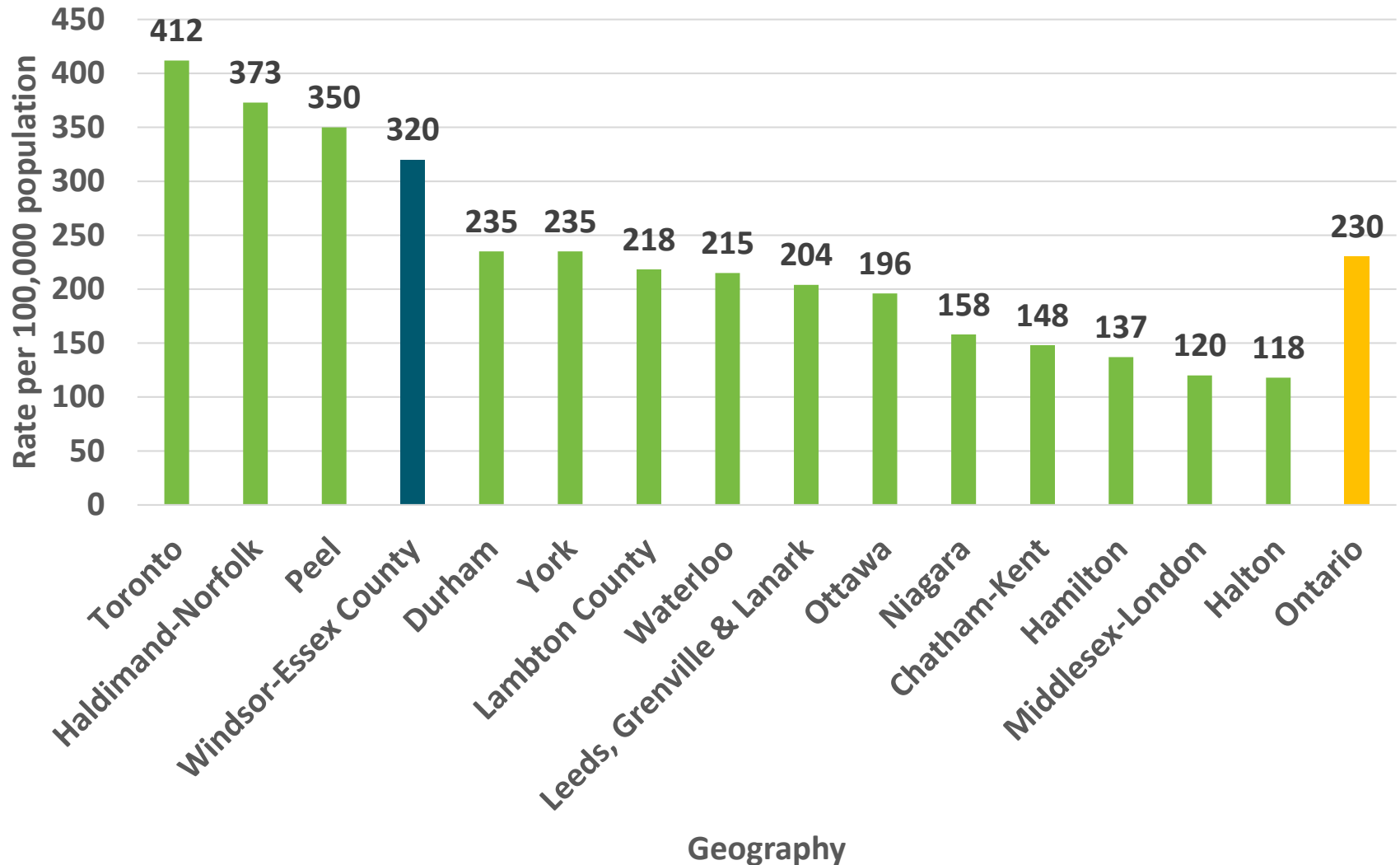
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# Rate by Reported Week

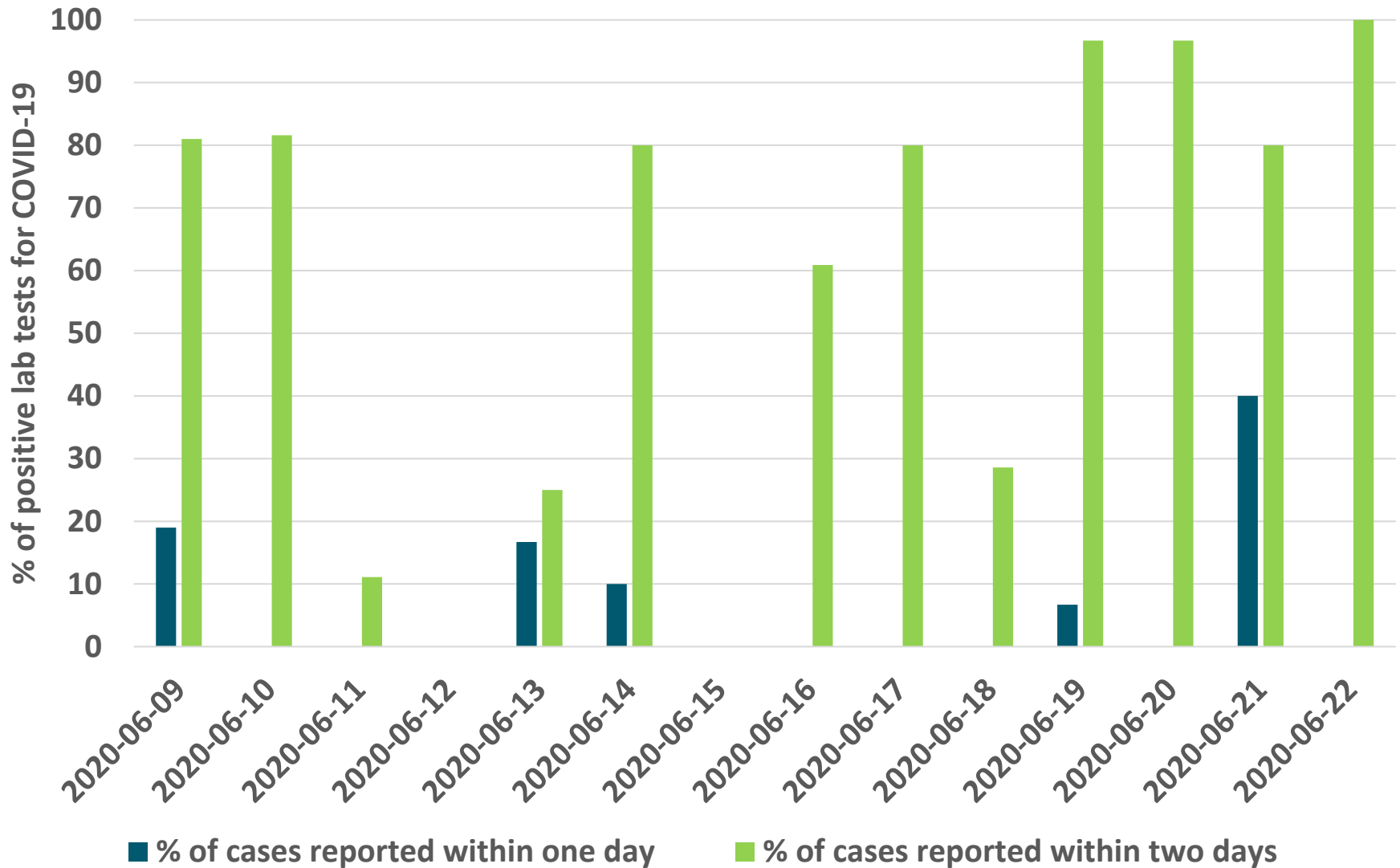


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# Regional & Provincial Rates

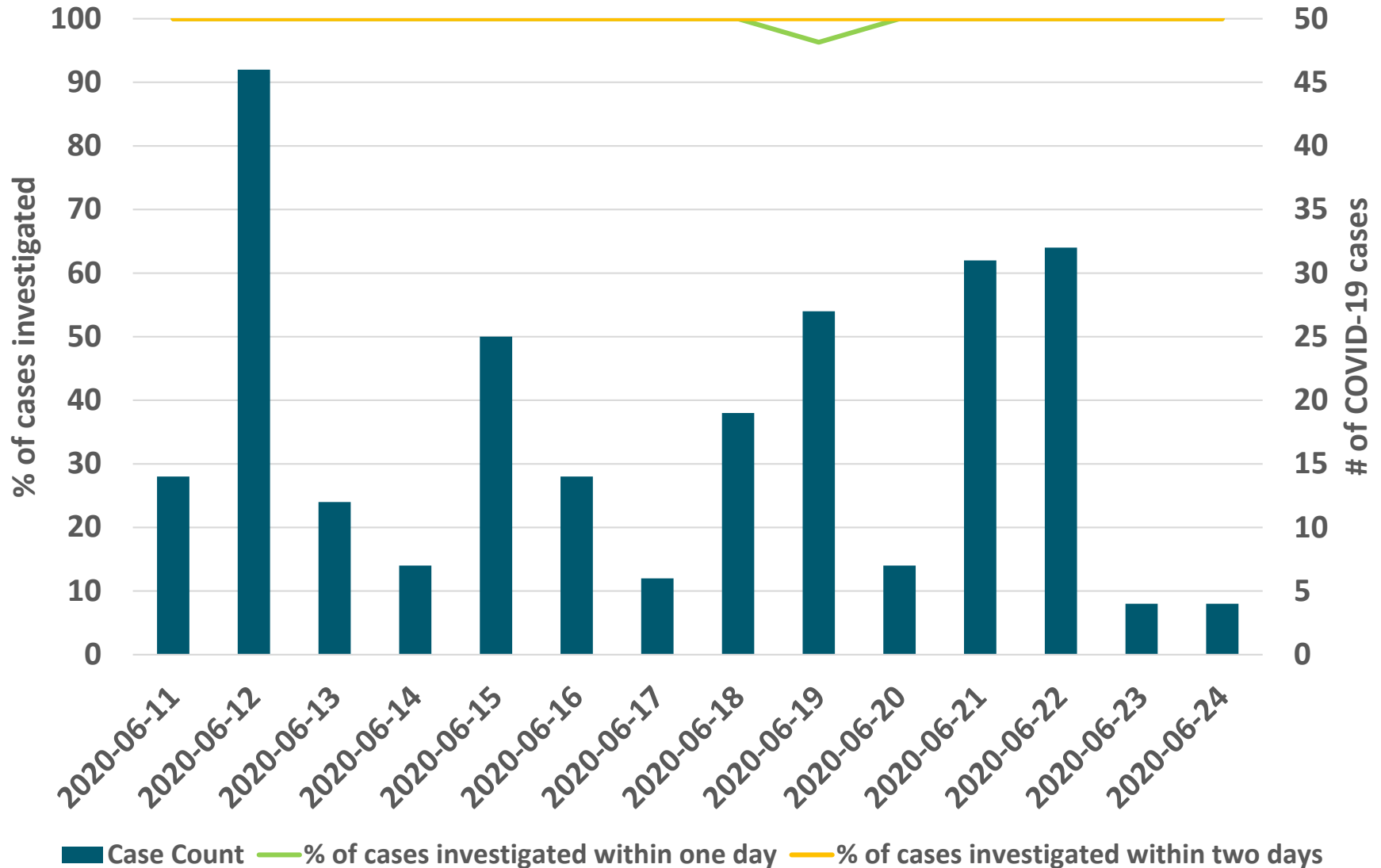


# Percentage of positive tests reported in one and two days of test date



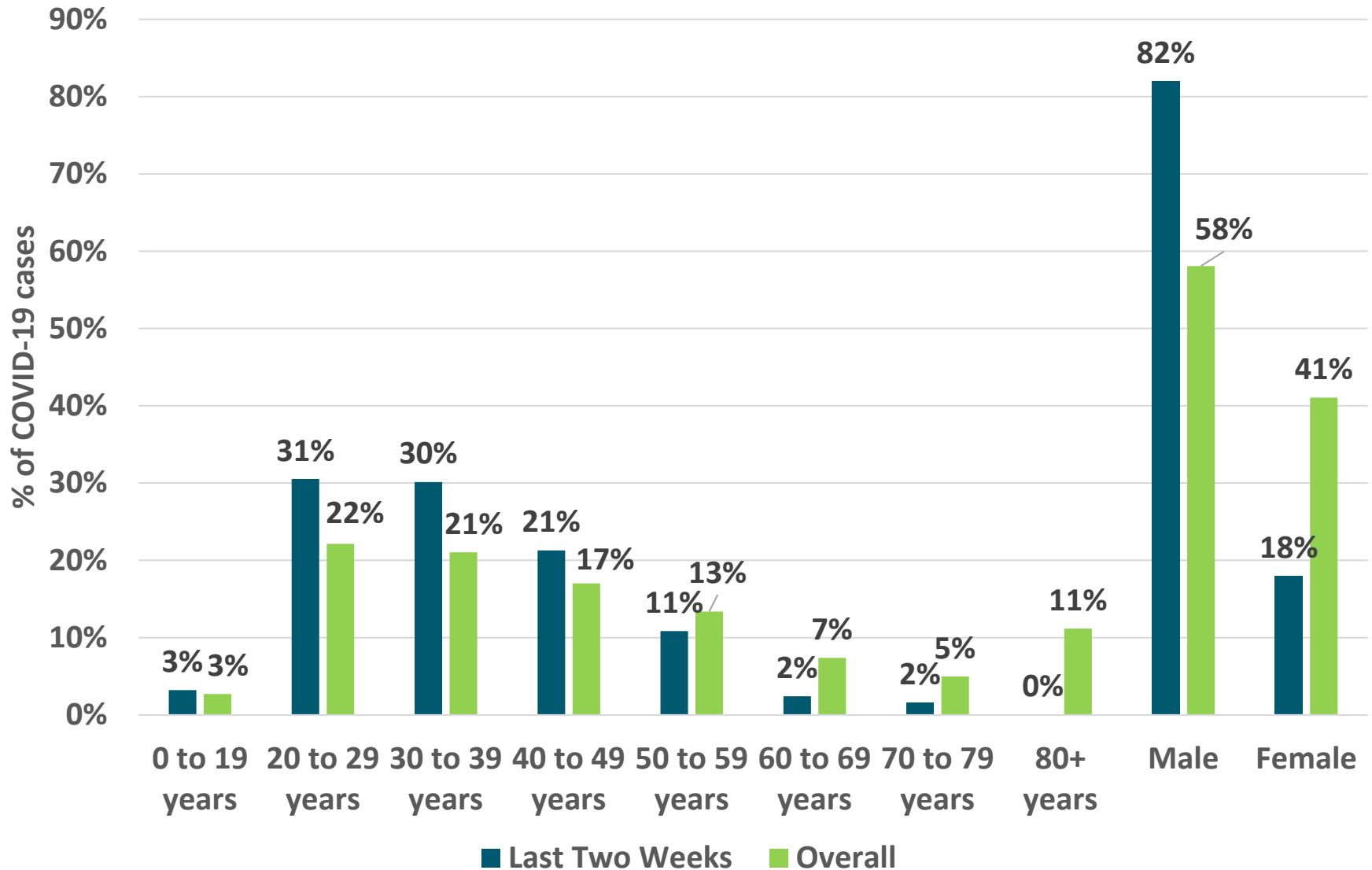
2020-06-29

# Percent of New Cases Investigated Within 24 & 48 Hours of Reported Date



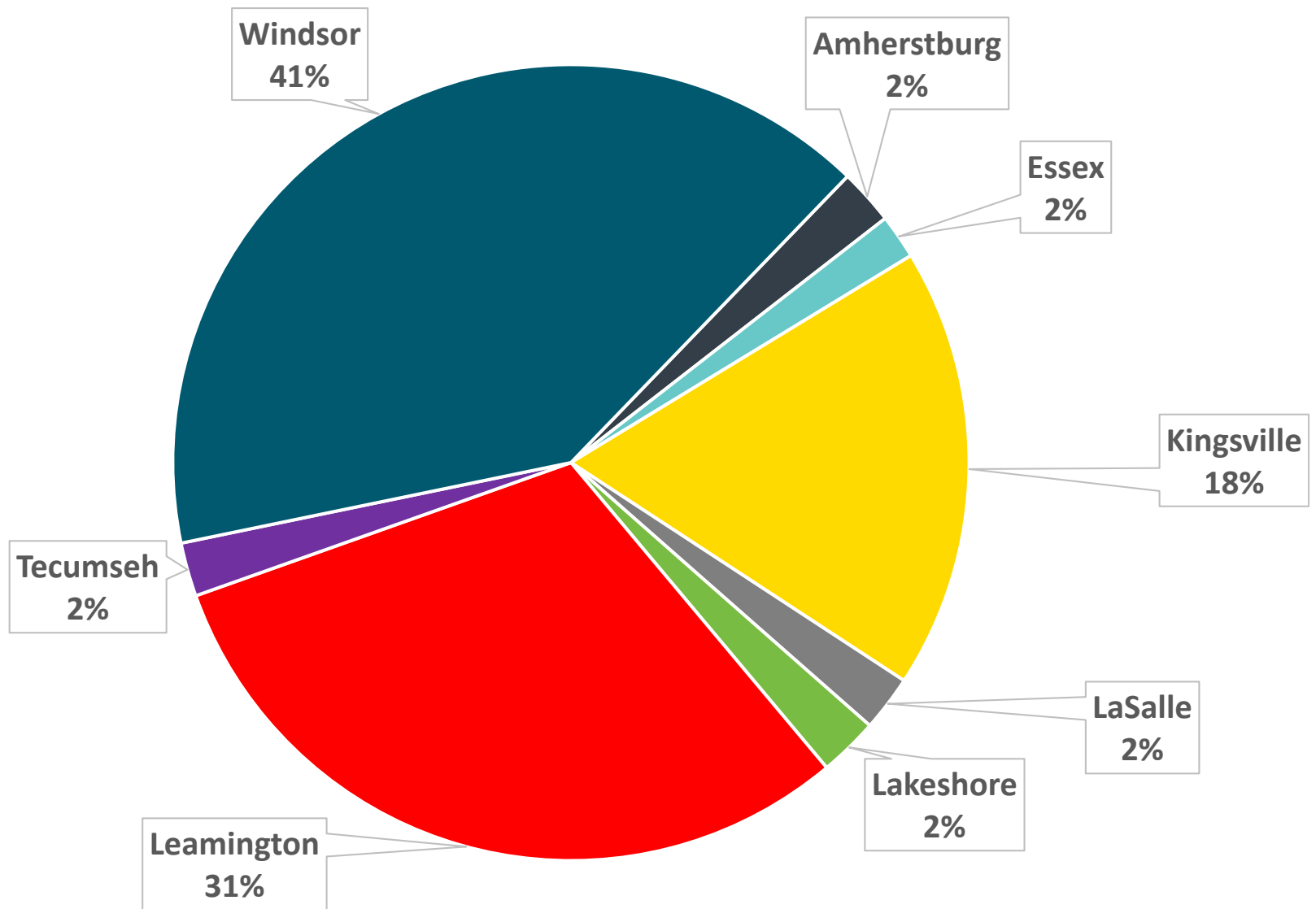
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# Age & Sex Distribution

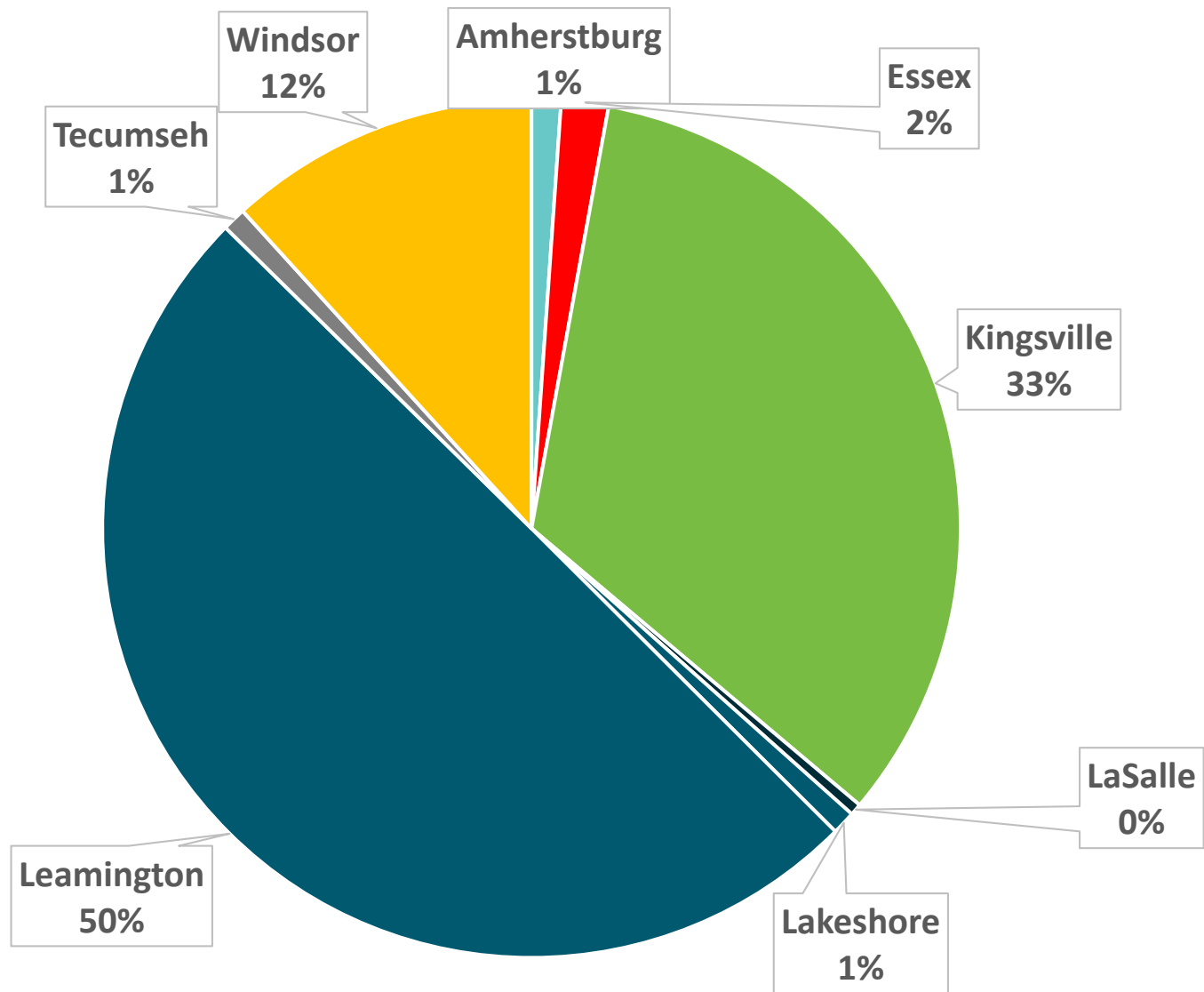


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# Distribution of COVID-19 Cases by Municipality

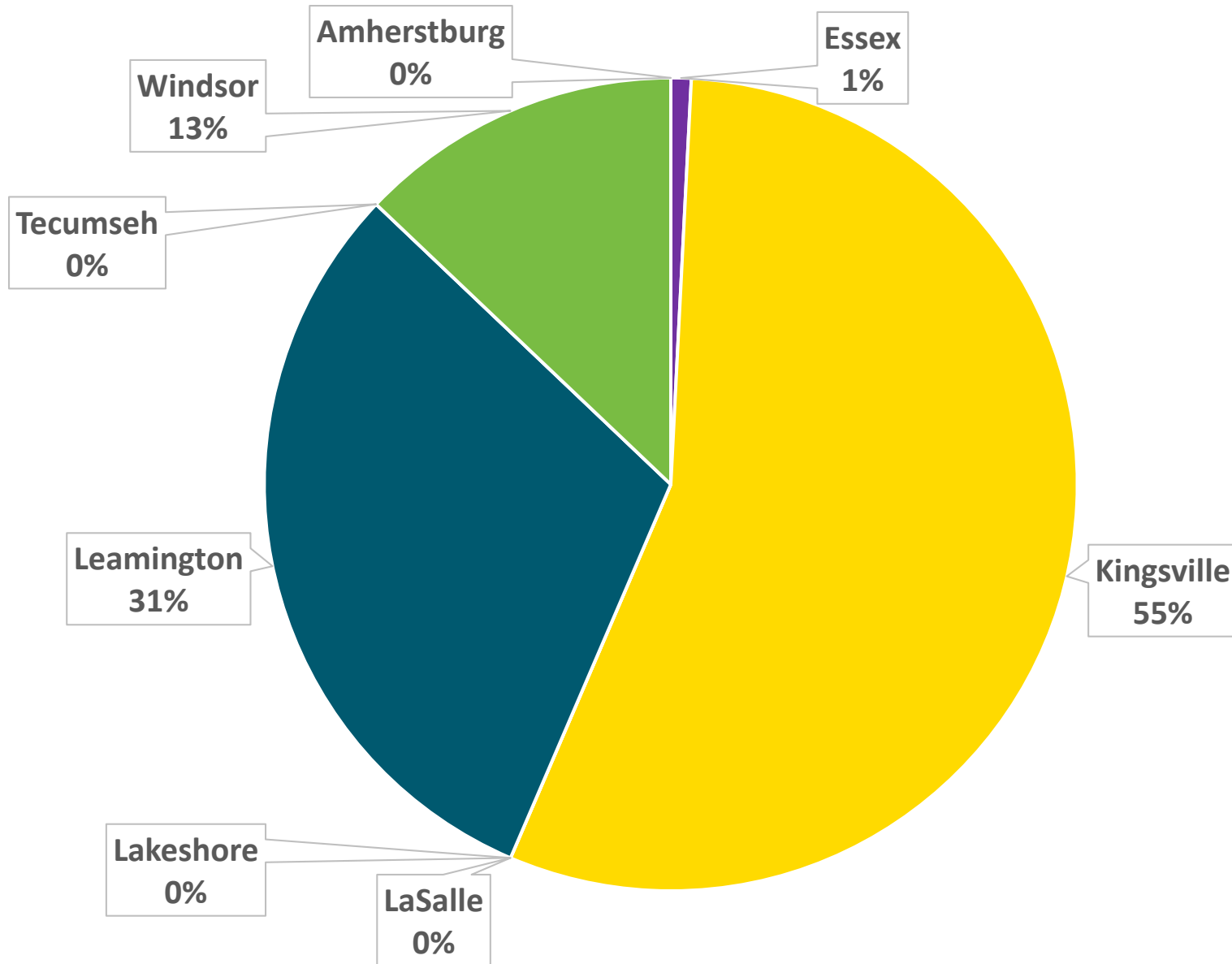


# Distribution of COVID-19 Cases by Municipality in last 30 days (May 26 to June 24)

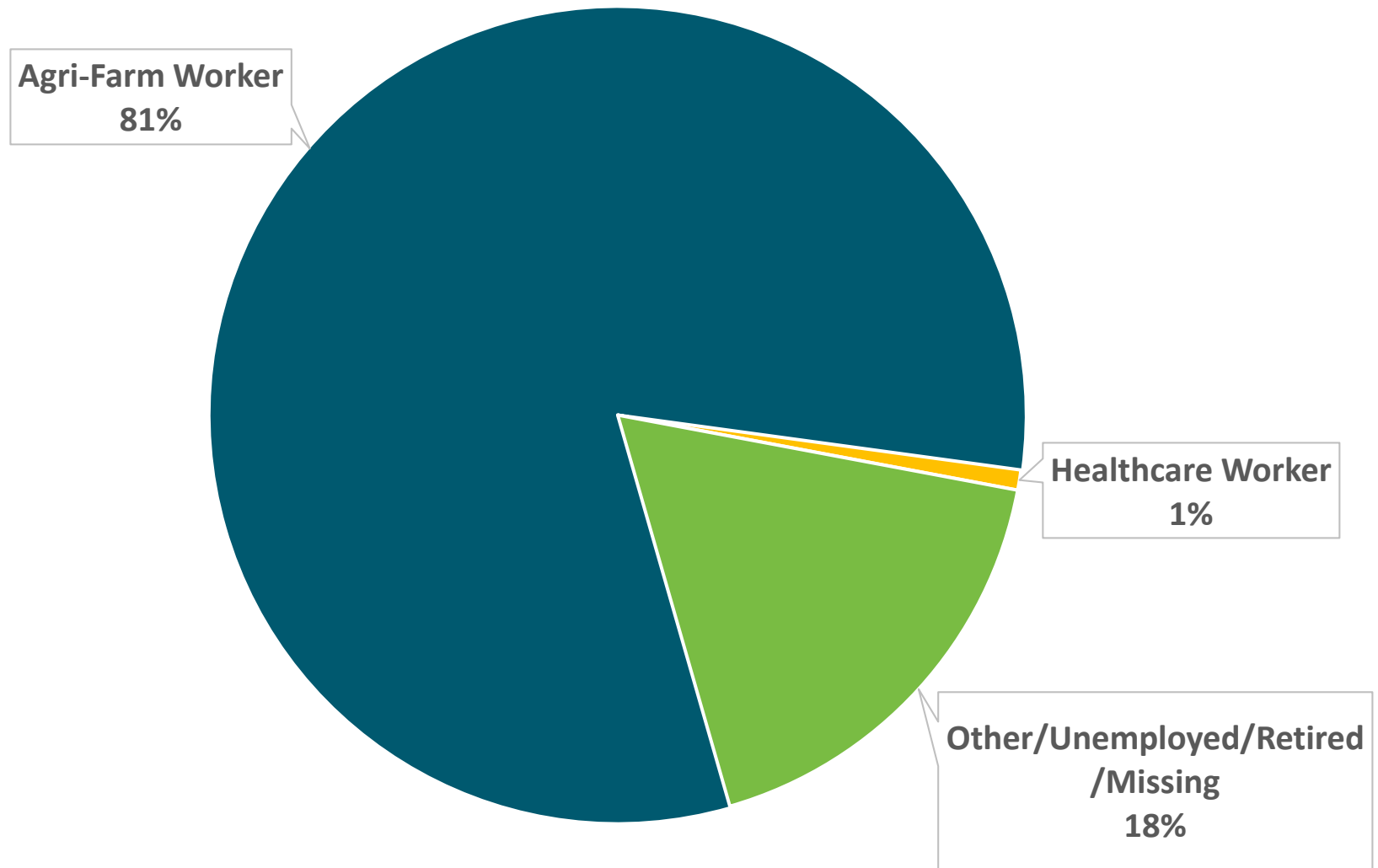




# Distribution of COVID-19 Cases by Municipality in last 7 days (June 18 to June 24)

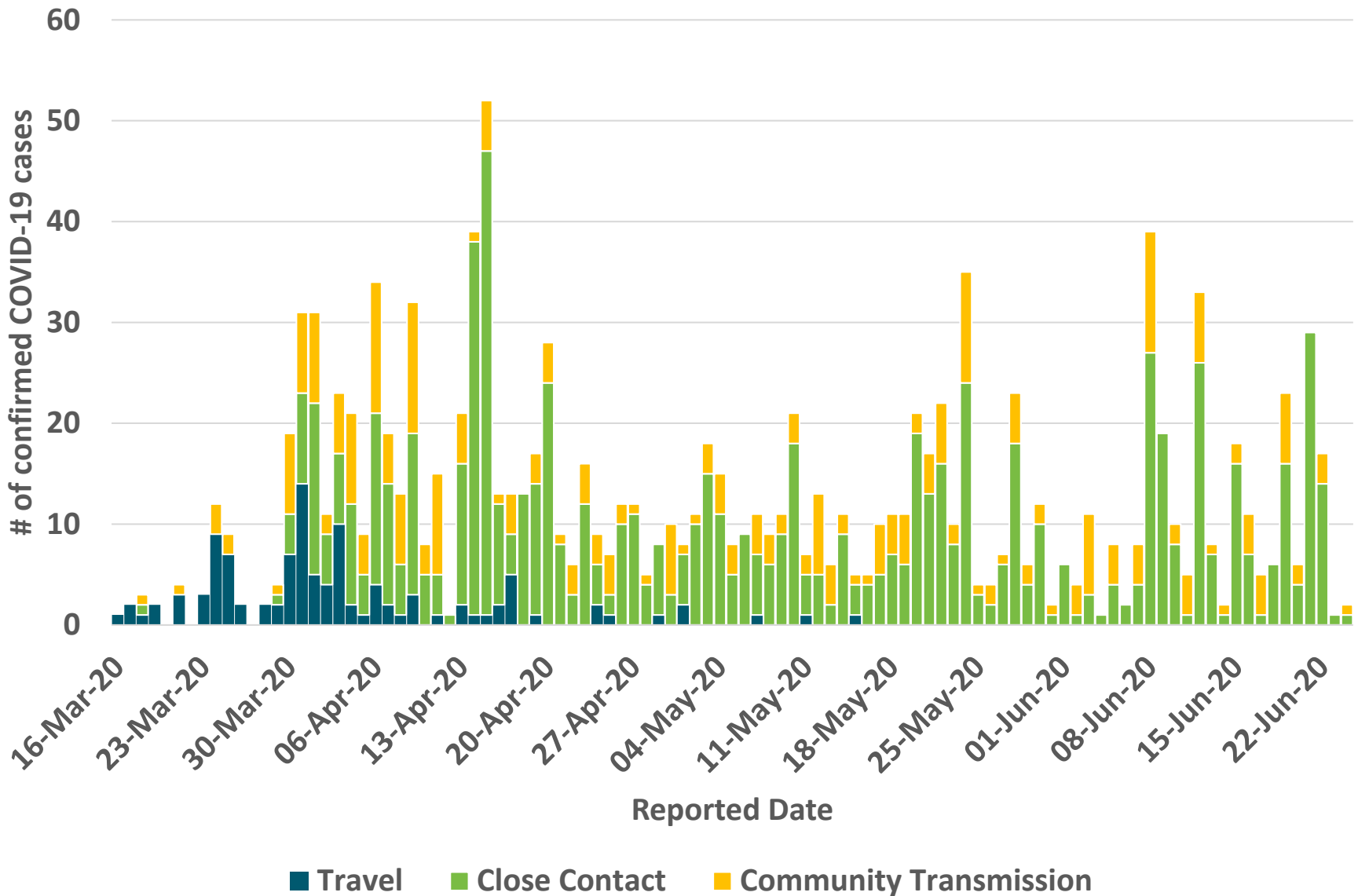


# Distribution of COVID-19 Cases by Occupation in the last 7 days (June 18 to June 24)



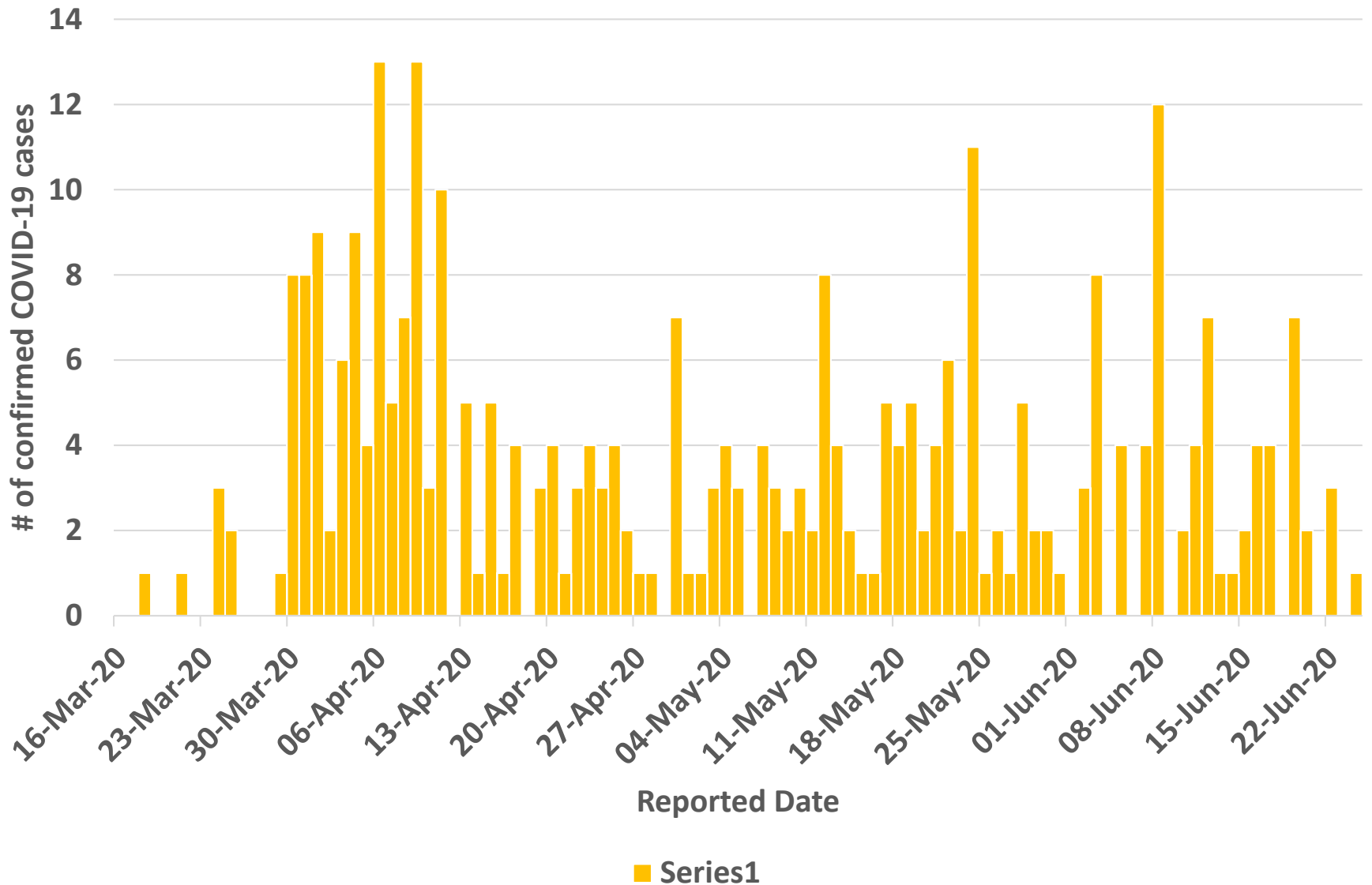
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# Exposure History by Reported Date



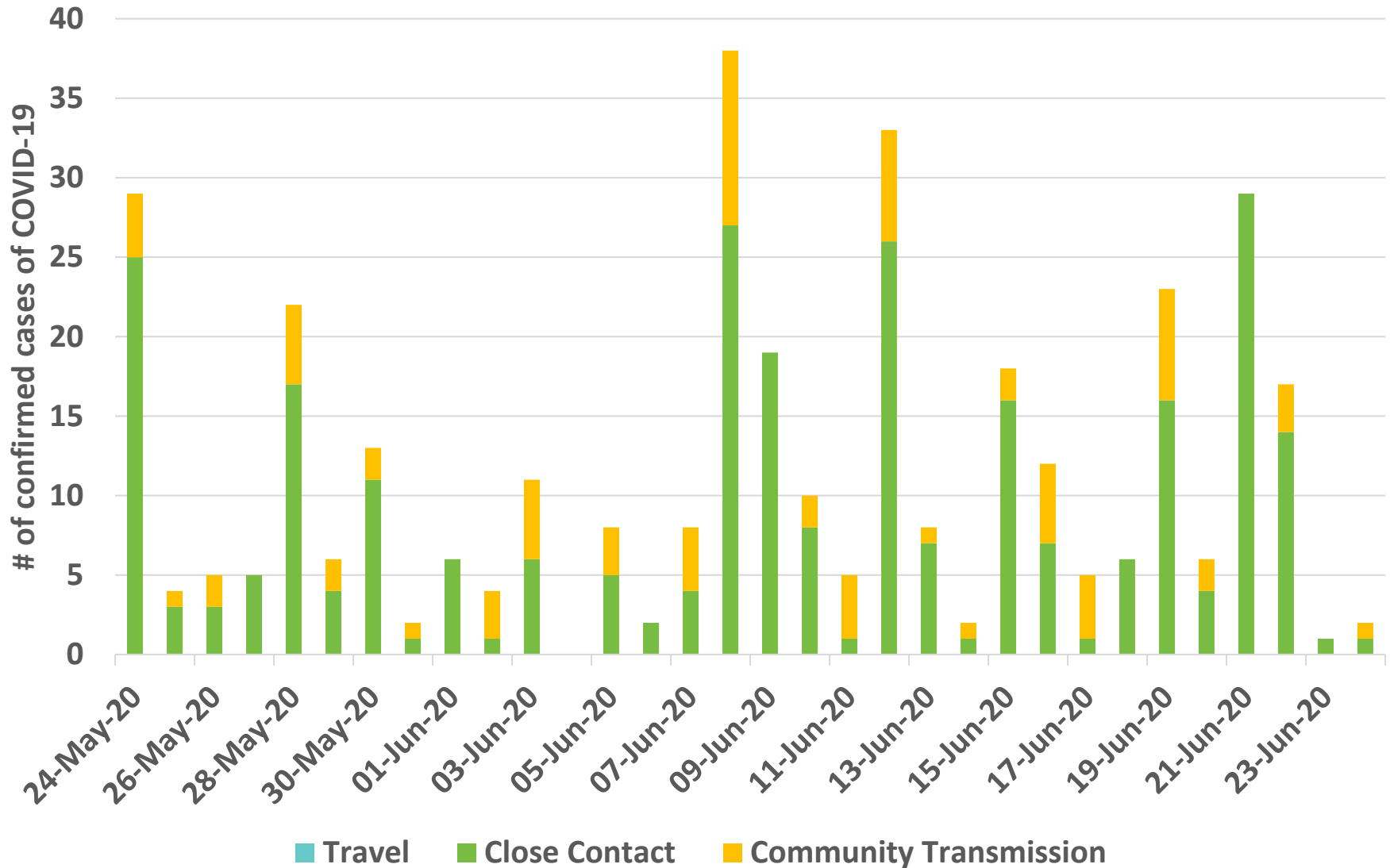
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# Community Exposure by Reported Date



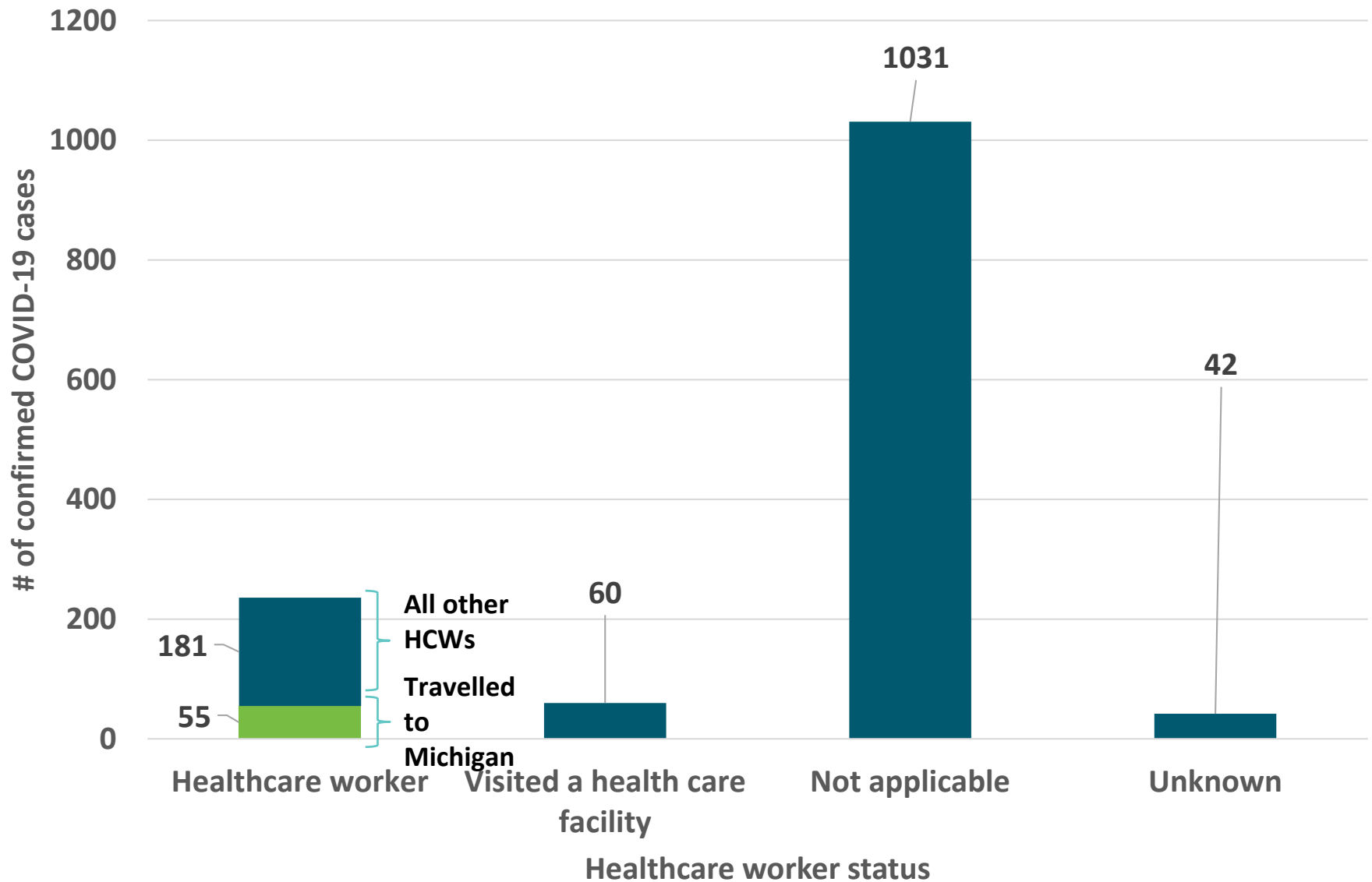
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# Exposure History by Reported Date Among Agri-Farm Workers in the past 30 days

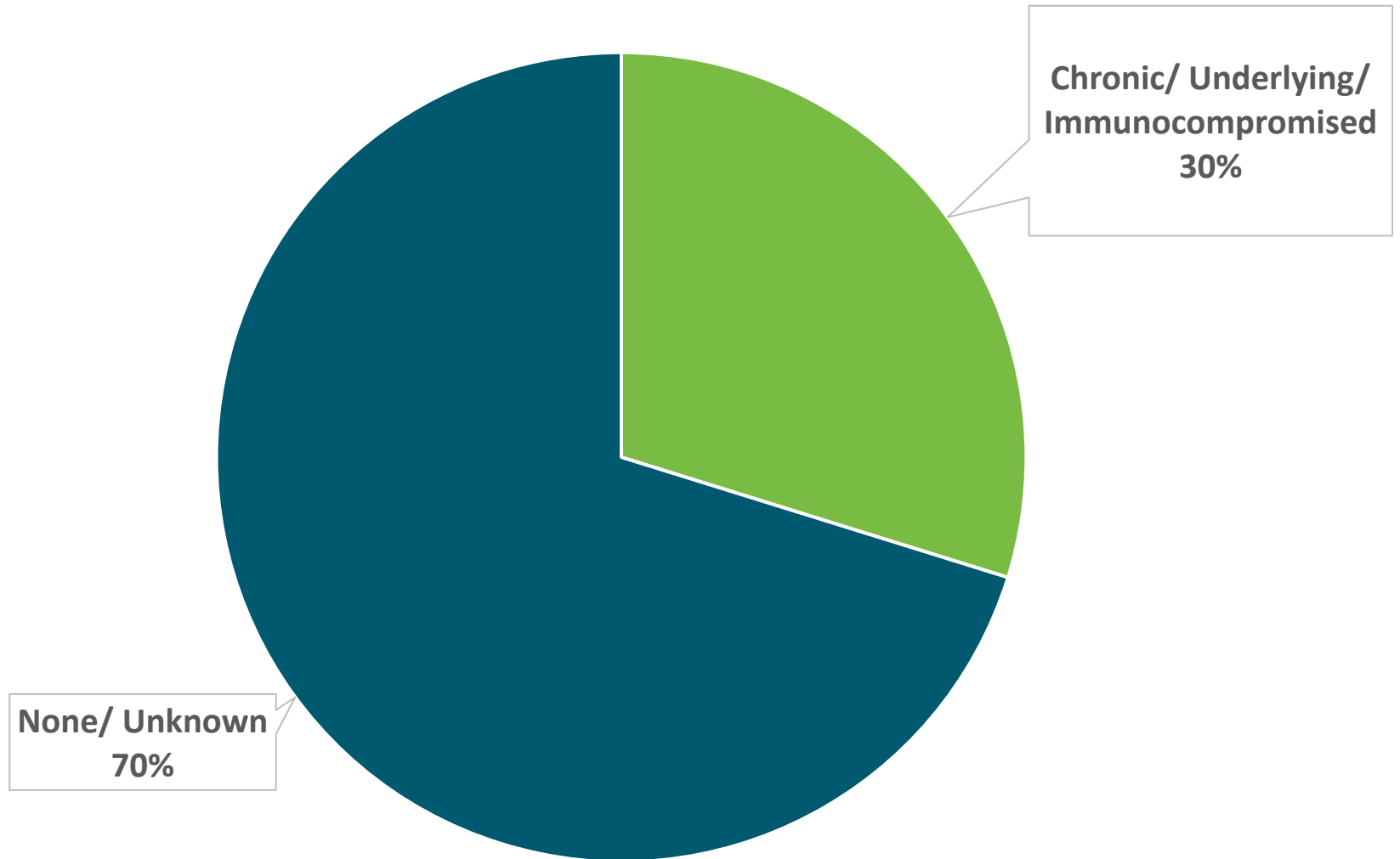


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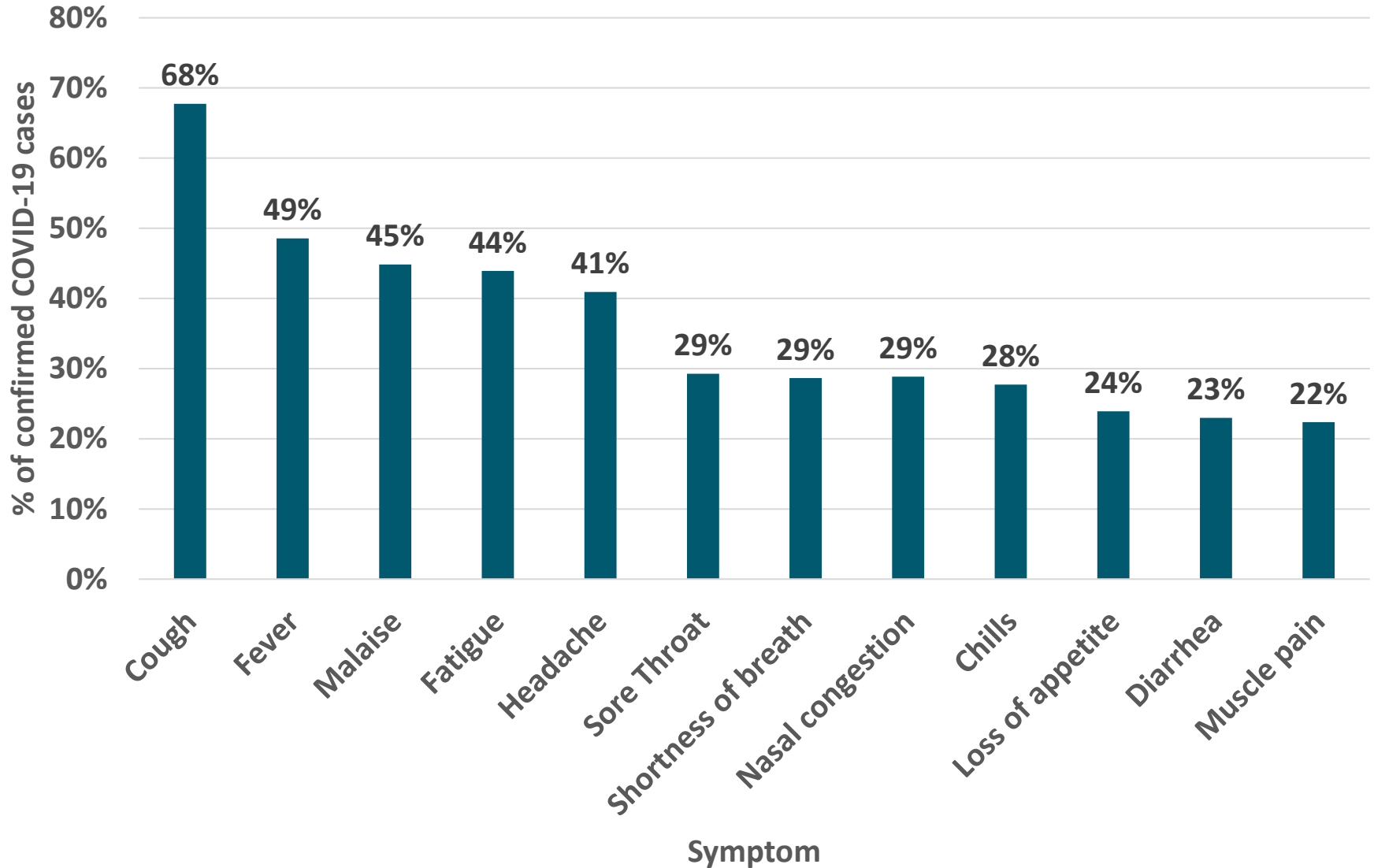
# COVID-19 Cases by Healthcare Worker



# Underlying Health Conditions

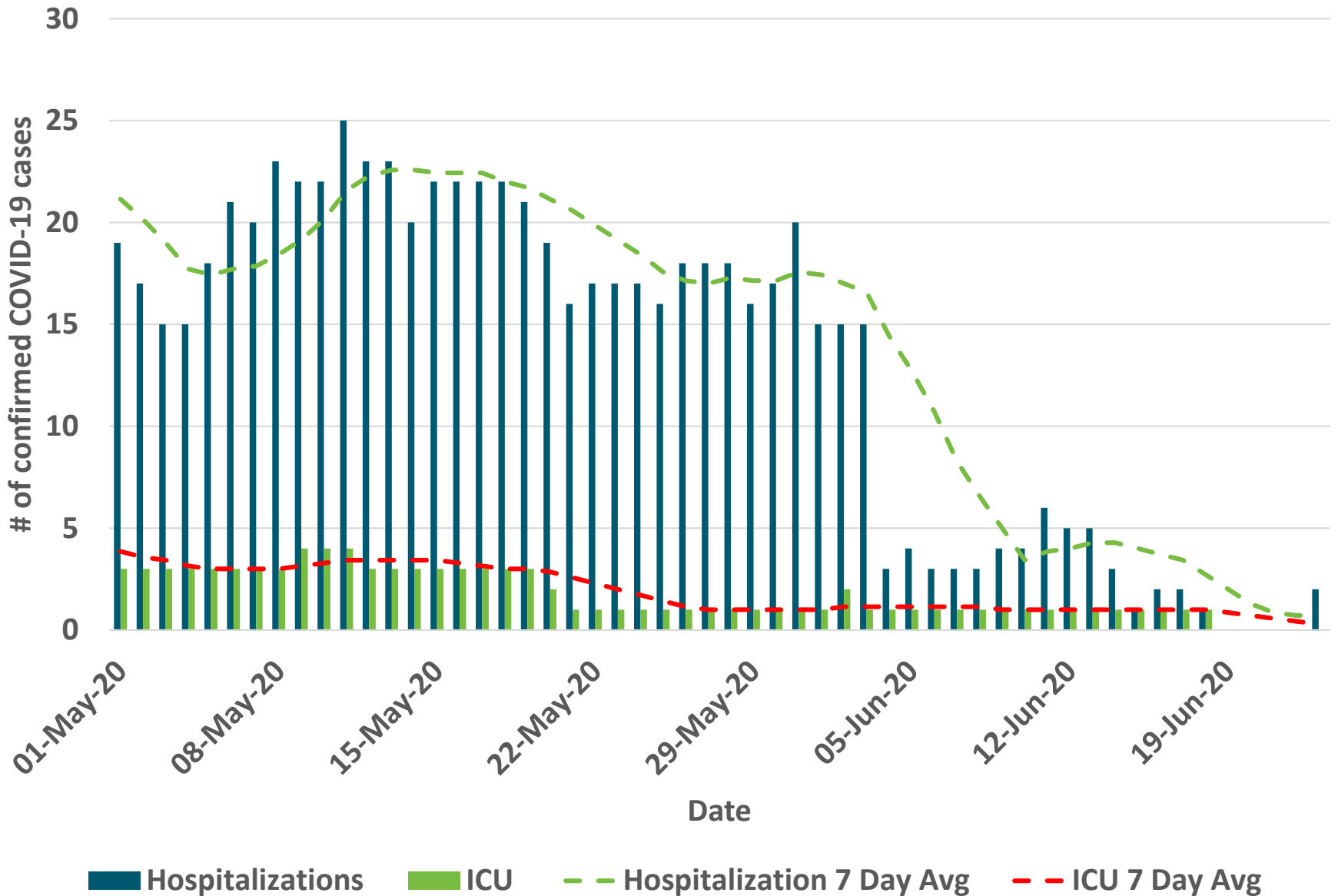


# Most Common Symptoms



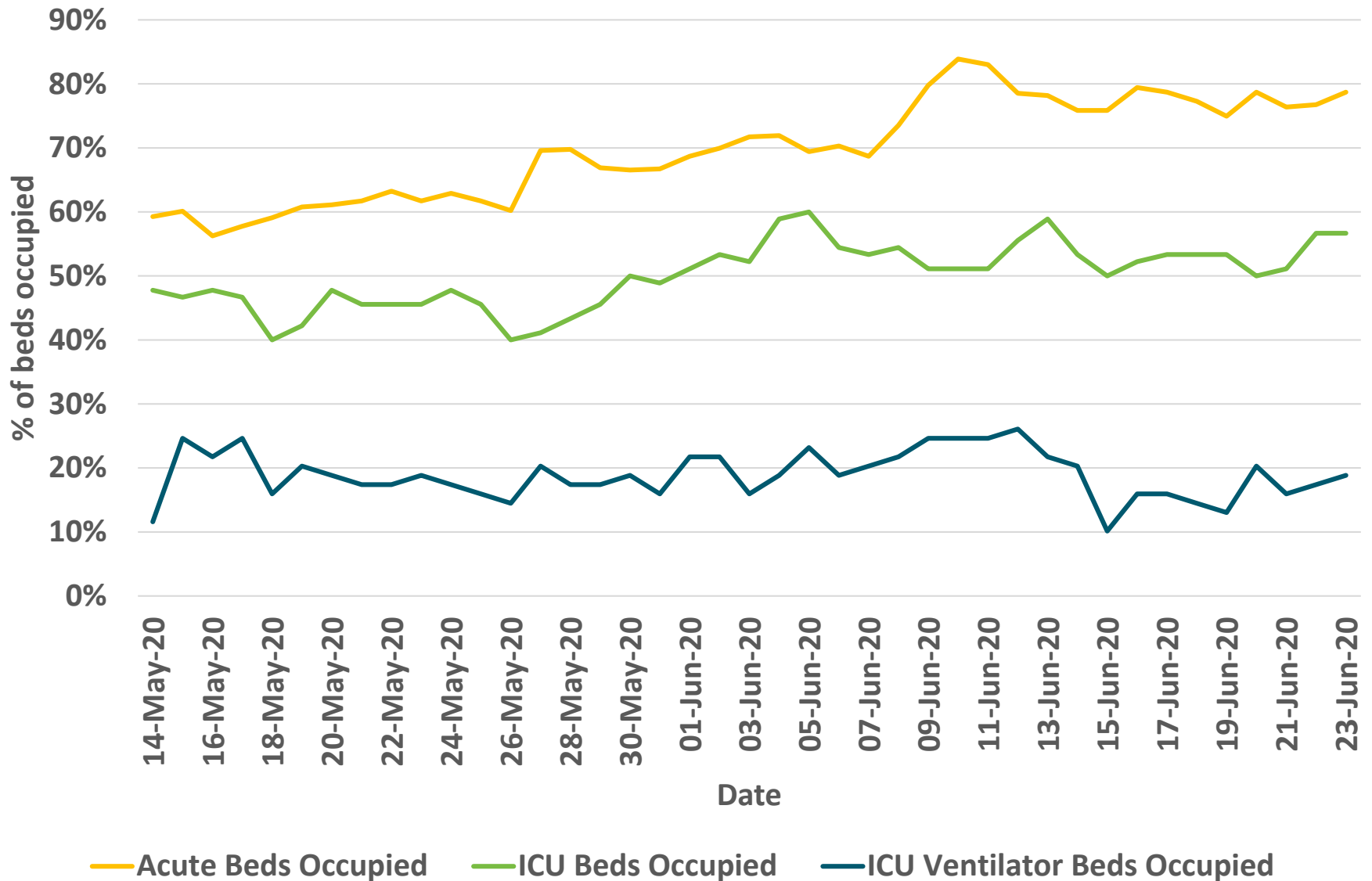


# Hospitalizations & ICU for COVID-19



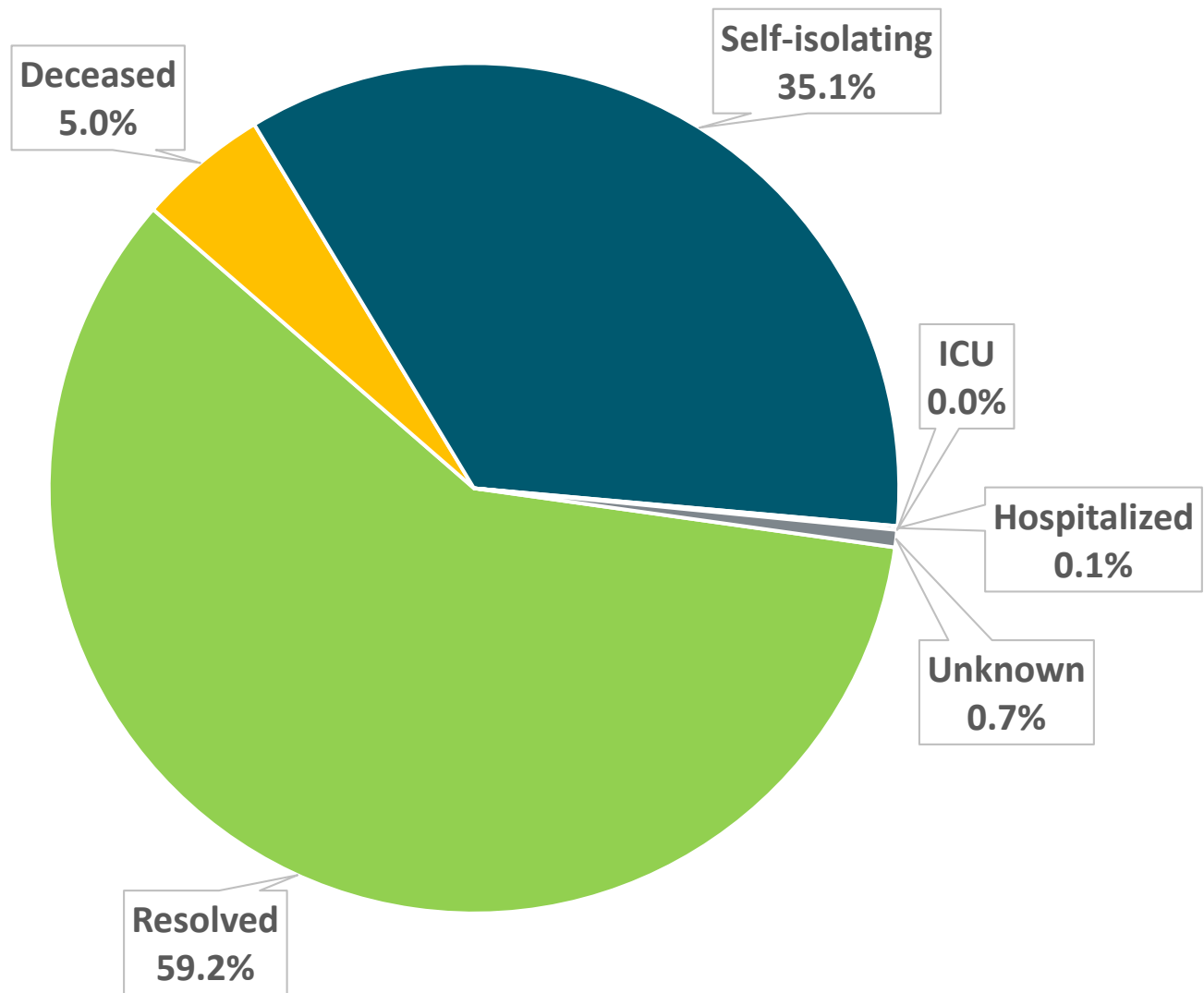
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# Health Care System Capacity

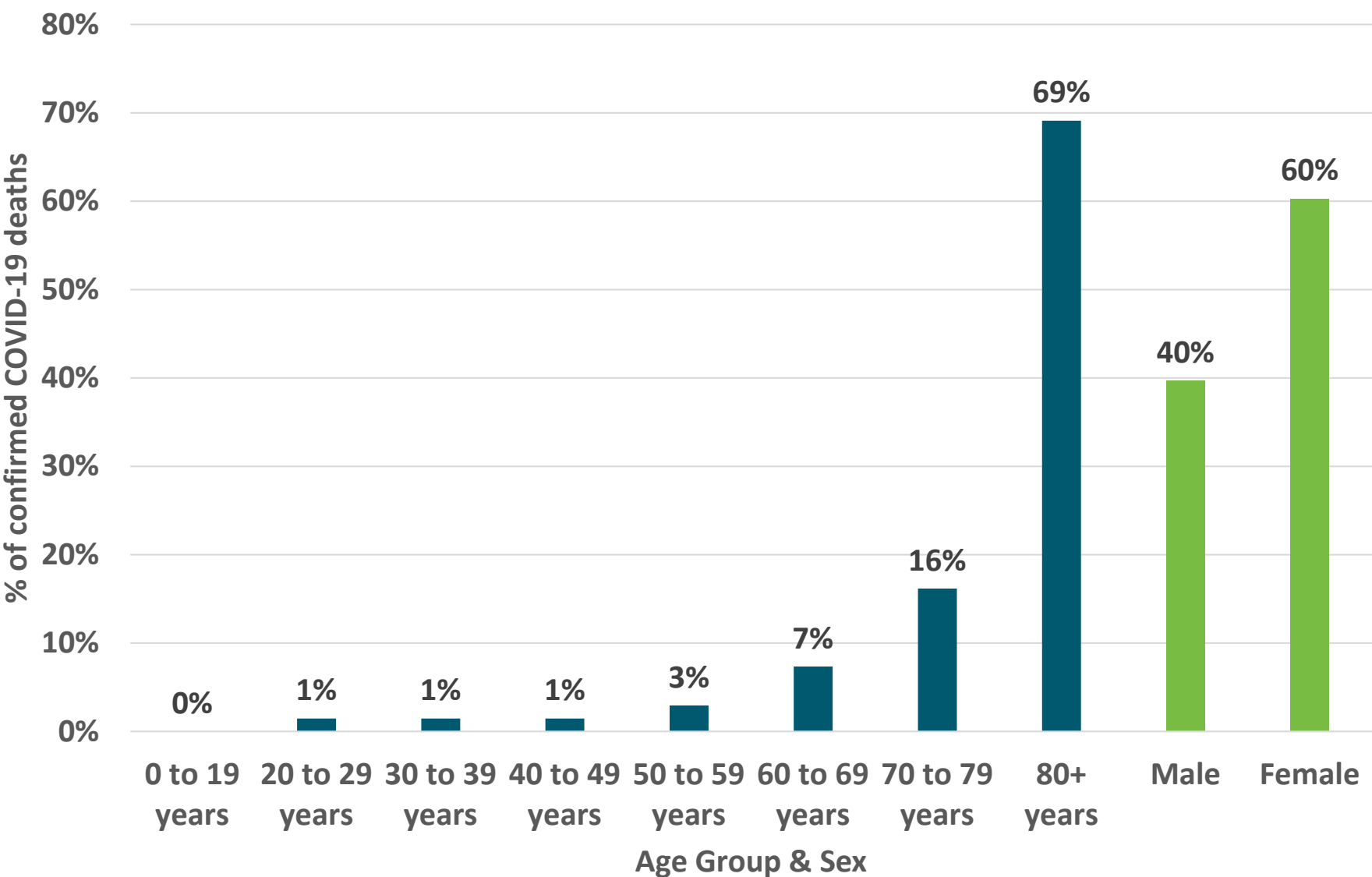


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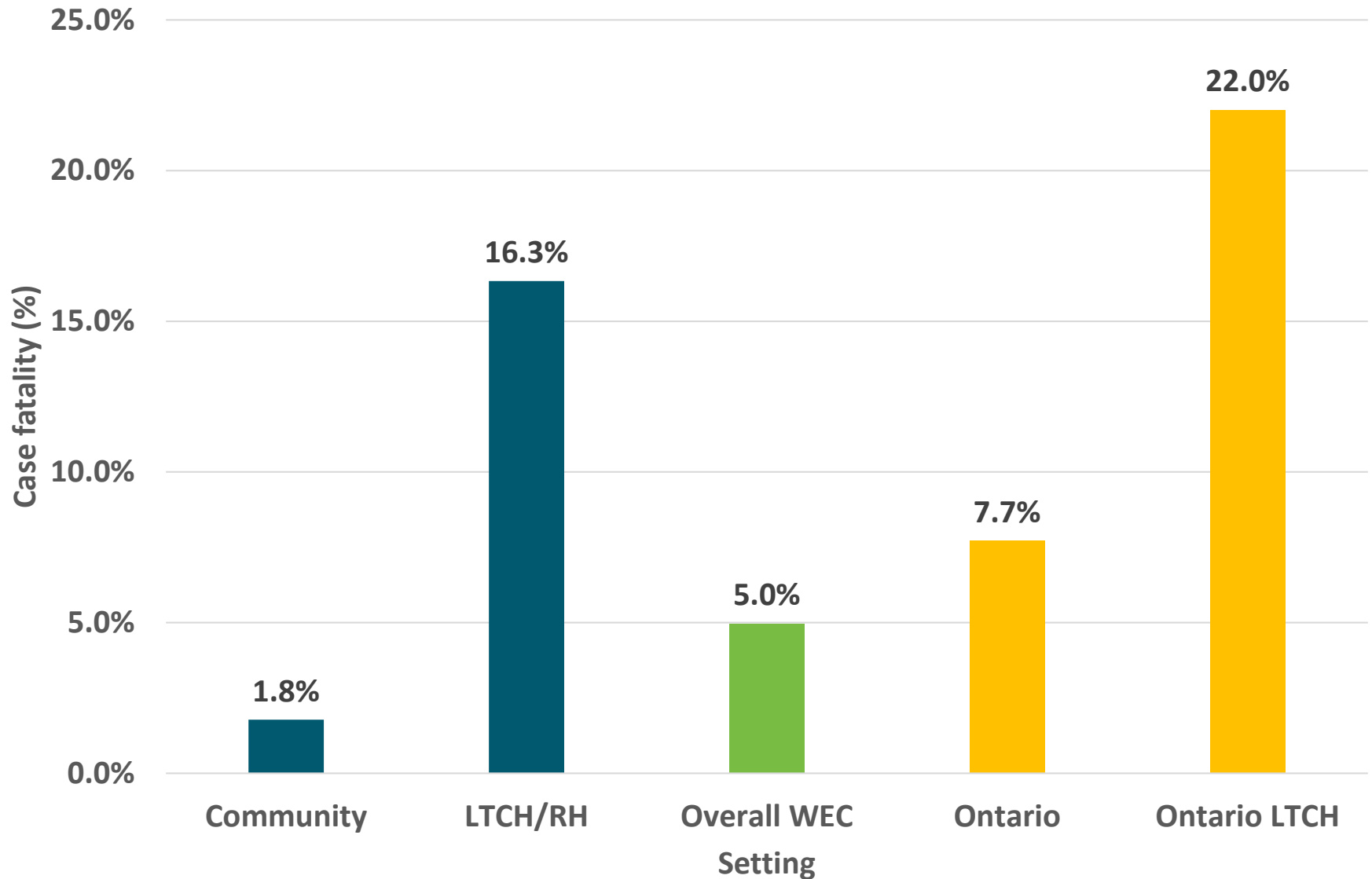
# Current Outcomes



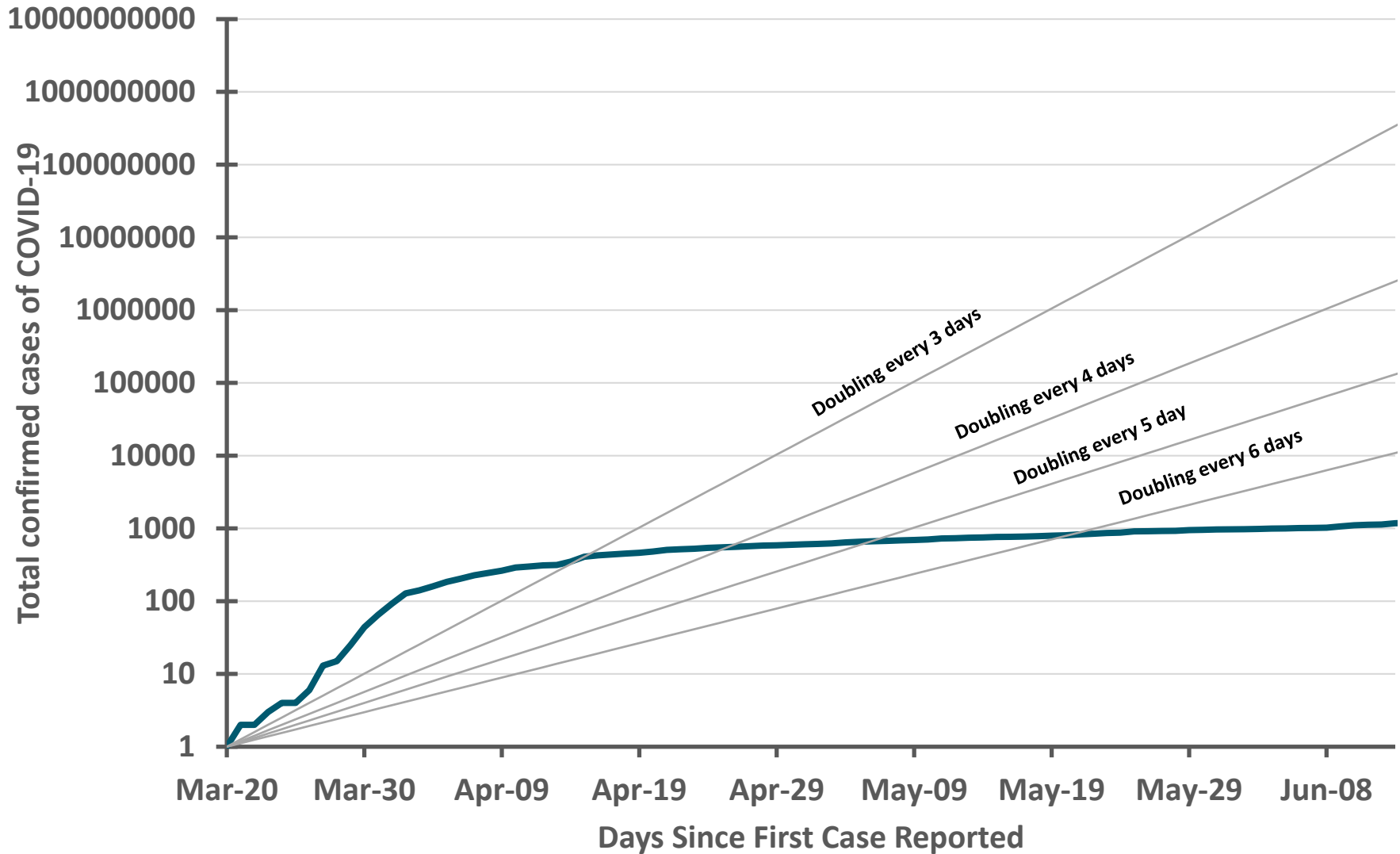
# Age & Sex Breakdown of COVID-19 Deaths



# Case Fatality Rate



# Doubling Time (Cumulative Comparison)



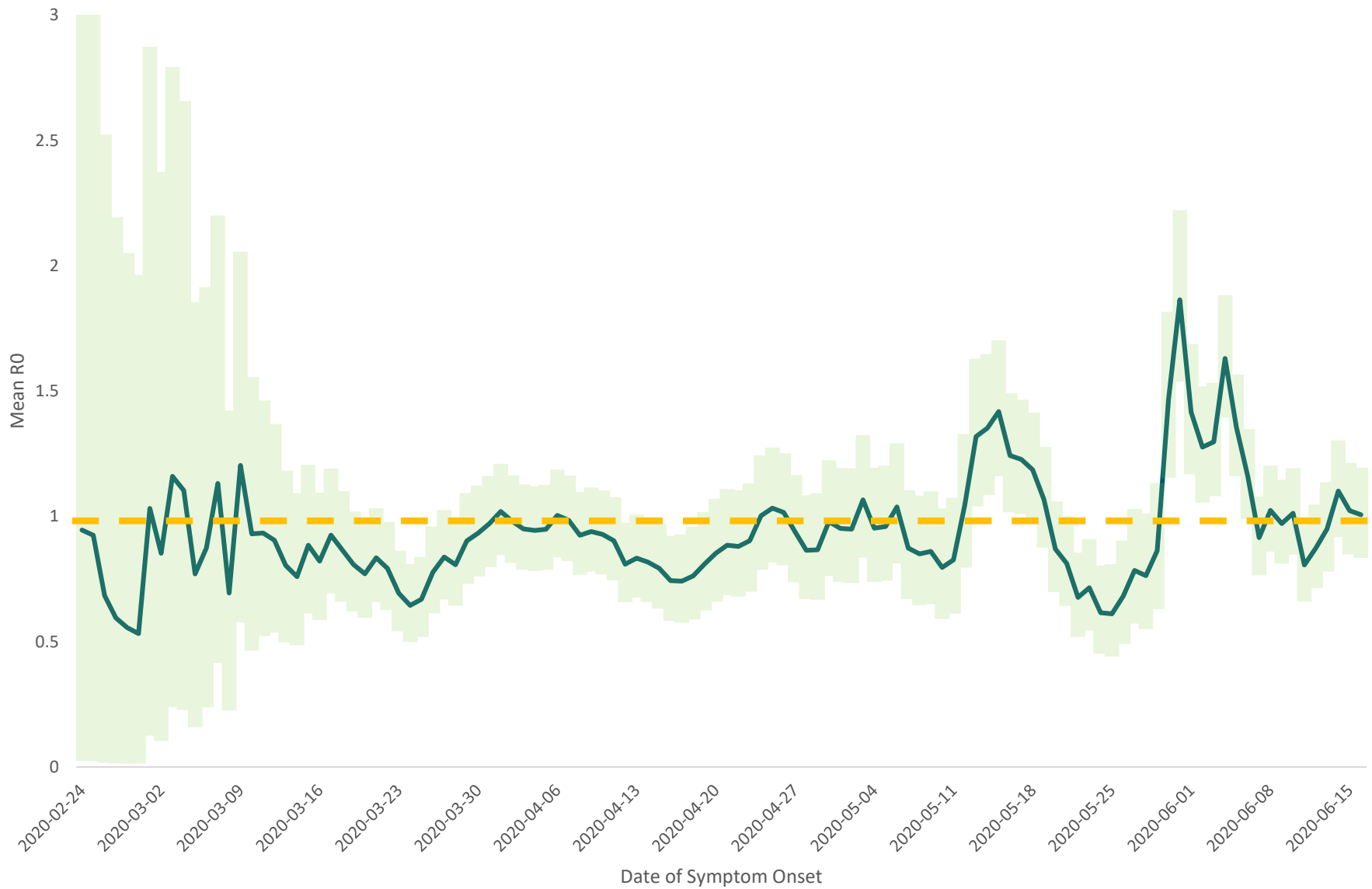
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# Doubling Time (Day over Day Comparison)



2020-06-29

# Mean R0 (Effective)



2020-06-29



# 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
- COVID-19 related Hospitalizations and ICU capacity have decreased dramatically in June
- $R_0$  (effective) value is 1.01 indicating that every COVID-19 case leads to one new case
  - BUT we have seen variations in the past few of weeks