

Public Health Sudbury & Districts

Coronavirus Disease 2019 (COVID-19)

Epidemiology Update

These data are based on information available from Public Health Sudbury & Districts as of **6:00 PM May 19, 2020**, unless otherwise specified.

** Note: There may be a lag between the date a case is confirmed by the laboratory to Public Health and the date a case is publicly reported. This is due to the public health follow-up that is required before a case is publicly reported.*

Highlights

As of the time of reporting, among residents of the Public Health Sudbury & Districts service area, there have been:

- **64 confirmed cases** of COVID-19
- **2 deaths**
 - The *case fatality rate* is 3.1%
 - Case Fatality Rate is calculated using the following formula: Total Deaths / Total Confirmed Cases
- **9,730 tests** for COVID-19 completed as of 5:00 PM May 18, 2020
 - The *testing rate* is 4,893 per 100,000 population
 - This total now includes data from ongoing targeted surveillance initiatives in long-term care homes and emergency child care centres.
 - This is calculated using the following formula: Total Confirmed Cases / (Total Tests – Pending Tests)

Of the confirmed cases:

- 37 cases (57.8%) were female
- 24 cases (37.5%) were between the ages of 40 to 59
- 38 cases (59.4%) were cases with an unknown exposure, or their contacts
- 16 cases (25.0%) are related to outbreaks in 8 long-term care homes
 - 1 death is related to outbreaks in long-term care homes

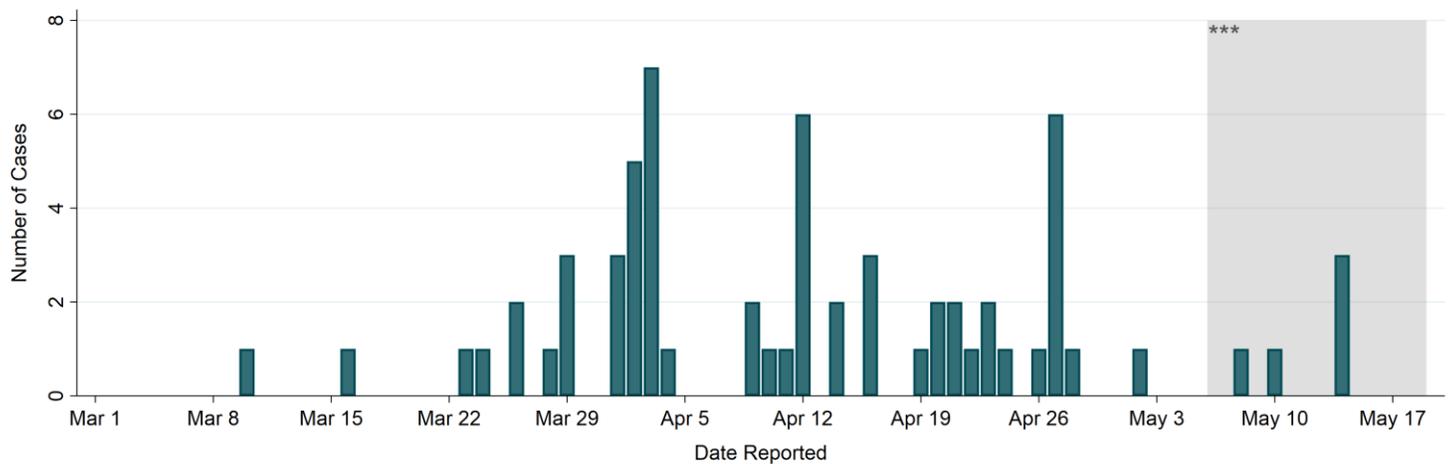
Epidemiology – Sudbury and Districts

Total confirmed cases as of May 19, 2020 at 6:00 PM: **64 Cases**

Cases over time

Notes: Coordinated targeted surveillance in long-term care homes and emergency child care centres began on Saturday, April 25. This targeted surveillance may account for recent increases in cases seen below. Also, the Integrated Public Health Information Systems (iPHIS) protocols for assigning Onset Date uses the date of testing in absence of other reliable information, which can account for increased numbers since that time.

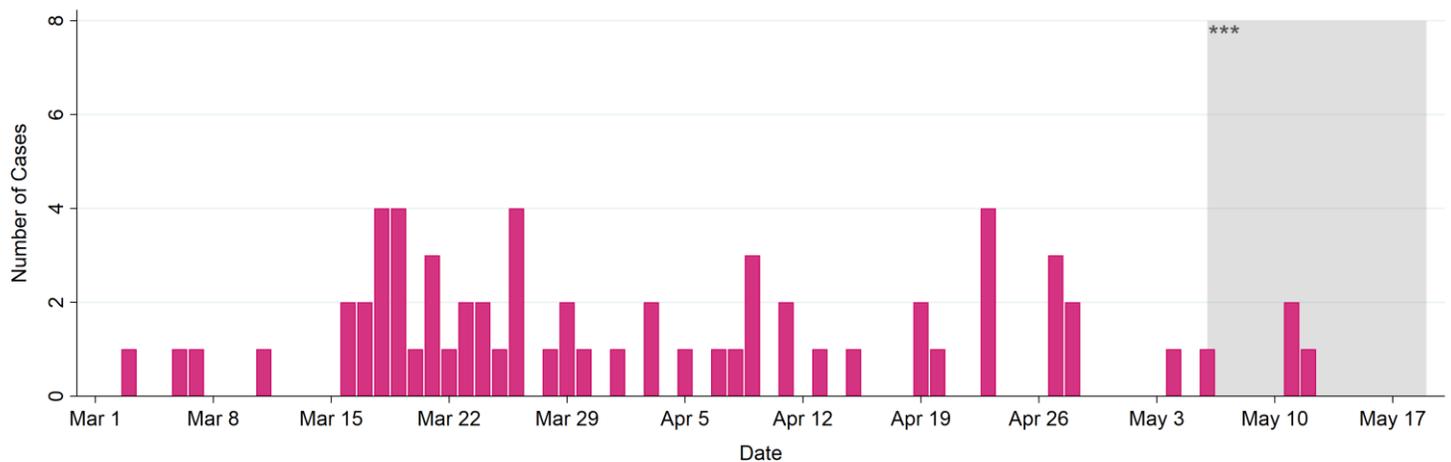
FIGURE 1. Confirmed cases, by date of reporting, Sudbury and districts



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: May 19, 2020)

*** Illnesses occurring during this period may not yet be reported

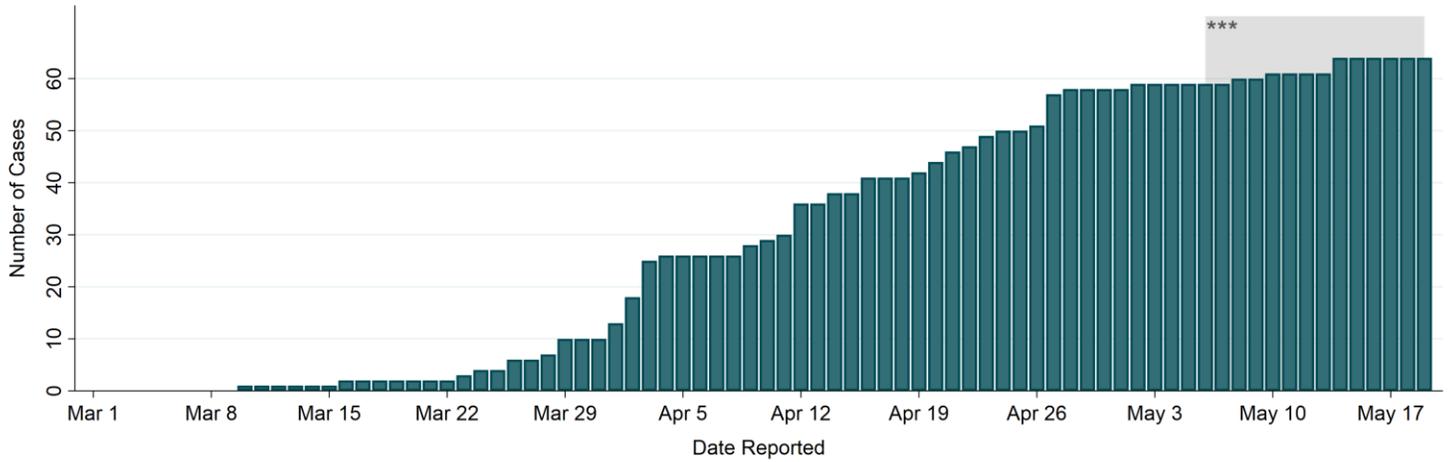
FIGURE 2. Confirmed cases, by date of symptom onset, Sudbury and districts



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: May 19, 2020)

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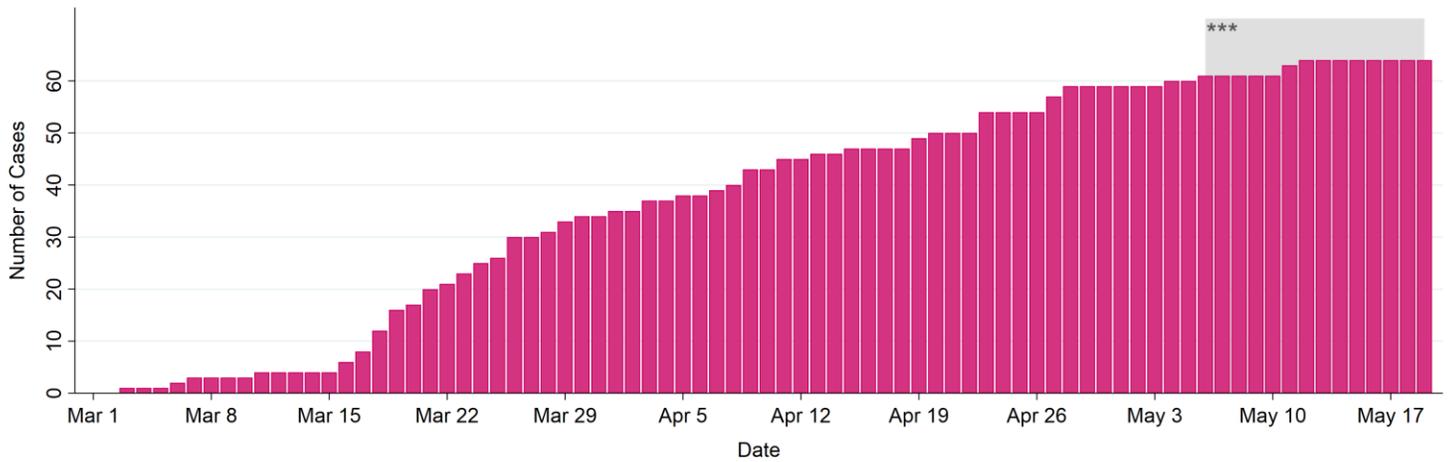
FIGURE 3. Cumulative confirmed cases, by date of reporting, Sudbury and districts



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: May 19, 2020)

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FIGURE 4. Cumulative confirmed cases, by date of symptom onset, Sudbury and districts



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Case Characteristics

TABLE 1. Number and Percentage of Confirmed Cases, by Various Characteristics

Characteristic	Number	Percentage (%)
Numbers of Cases	64	100%
Change from previous report	0	0.0%*
Gender: Male	23	35.9%
Gender: Female	37	57.8%
Gender: Not specified	4	6.3%
Ages: 19 and under	4	6.3%
Ages: 20-39	17	26.6%
Ages: 40-59	24	37.5%
Ages: 60-79	17	26.6%
Ages: 80 and over	2	3.1%
Area: Greater Sudbury	58	90.6%
Area: Manitoulin District	4	6.3%
Area: Sudbury District	2	3.1%

Data source: Public Health Sudbury & Districts

*Percent change represents the degree of change over time, calculated: (New-Original)/Original

Case Outcome

TABLE 2. Case fatality, by geographic area

Geographic Area	Deaths	Case Fatality Rate (CFR)
Sudbury and districts	2	3.1%
Ontario	1,919	8.2%

Data Source: Public Health Sudbury & Districts

TABLE 3. Resolved cases, by geographic area

Geographic Area	Resolved Cases	Percentage
Sudbury and districts	59	92.2%
Ontario	17,898	76.5%

Data Source: Public Health Sudbury & Districts

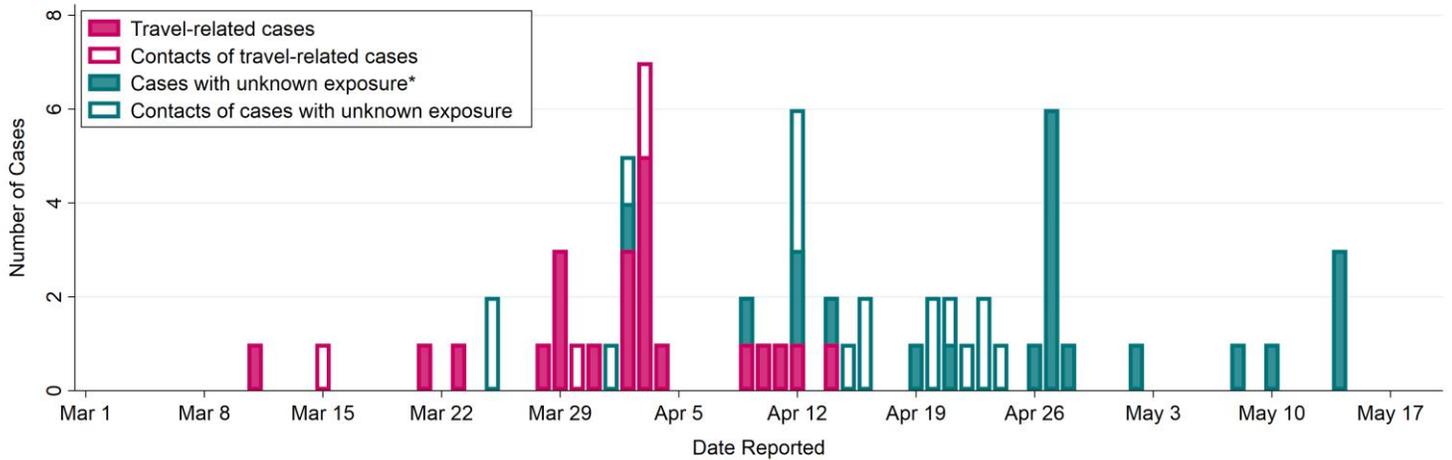
Probable Exposure

TABLE 4. Confirmed Cases, by Probable Exposure, Sudbury and districts

Exposure	Number	Percentage (%)
Travel-related	22	34.4%
Contact of a travel-related case	4	6.3%
No travel and no contact with a known case (unknown exposure)	21	32.8%
Contact of a case with unknown exposure	17	26.6%
Pending/undetermined	0	0.0%

Data Source: Public Health Sudbury & Districts

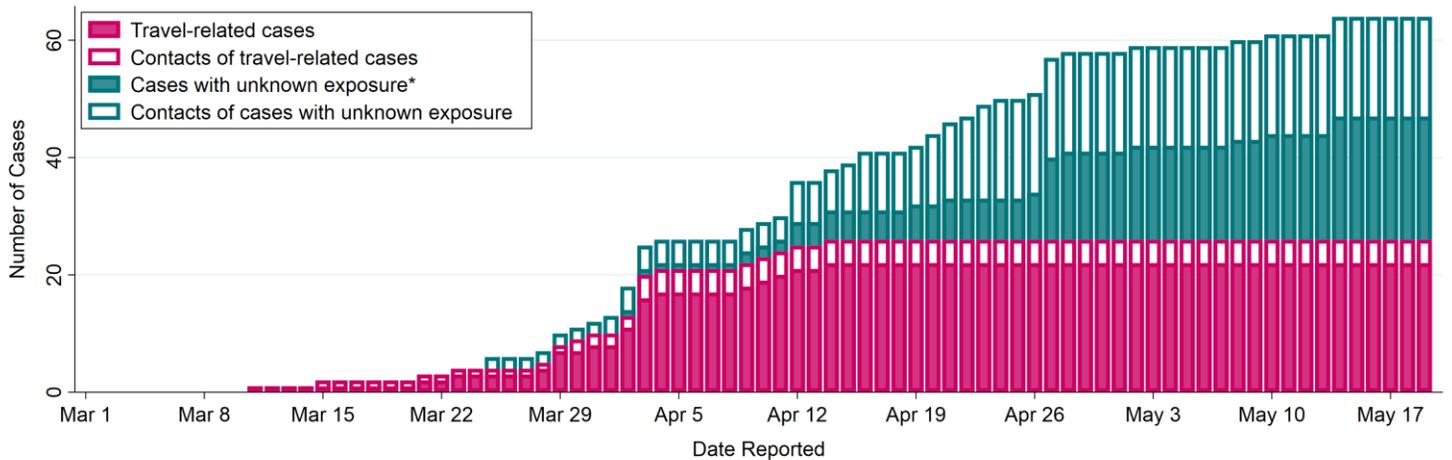
FIGURE 5. Confirmed Cases, by date of reporting and probable exposure, Sudbury and districts



Data source: Public Health Sudbury & Districts

*Cases with unknown exposure are defined as *No history of travel and no contact with a known case (unknown exposure)* in Table 4, above

FIGURE 6. Cumulative confirmed Cases, by date of reporting and probable exposure, Sudbury and districts



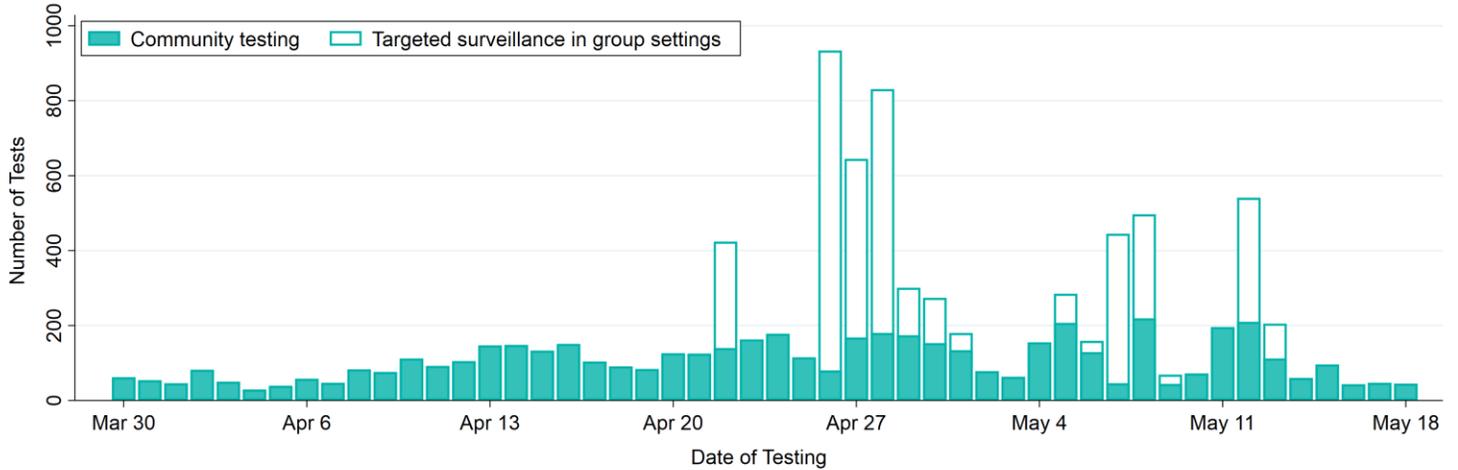
Data source: Public Health Sudbury & Districts

*Cases with unknown exposure are defined as *No history of travel and no contact with a known case (unknown exposure)* in Table 4, above

Testing

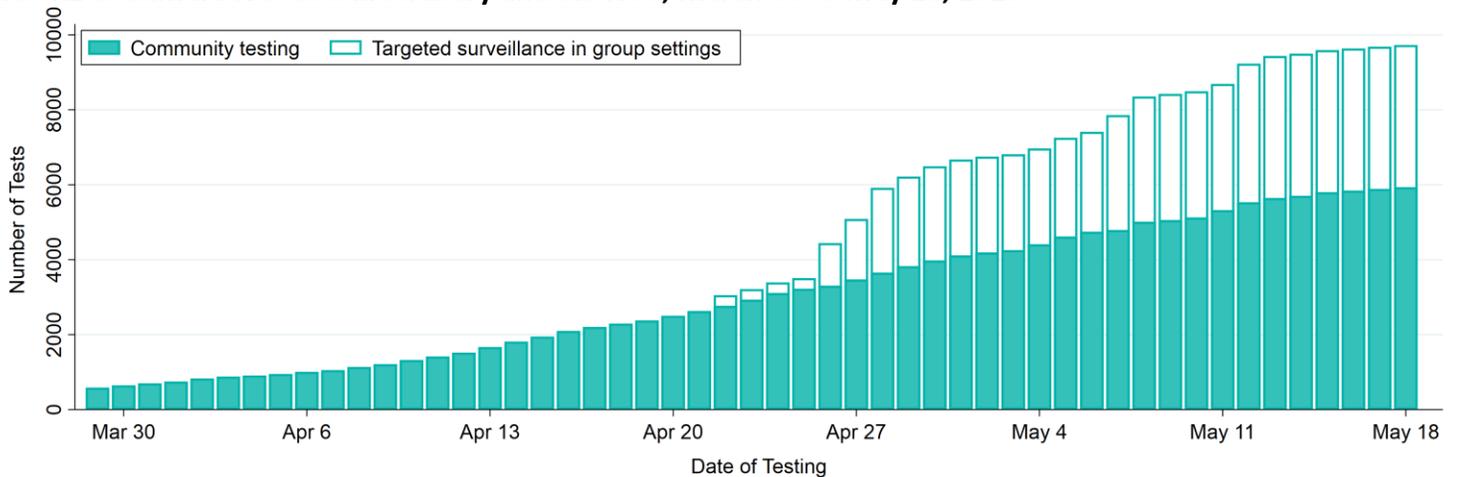
Total number of tests for COVID-19 as of May 18, 2020 at 6:00 PM: **9,730 tests**. This total, and the graphs below, now include tests undertaken as part of ongoing targeted surveillance initiatives in long-term care homes and emergency child care centres.

FIGURE 7. Tests in Sudbury and districts, March 30 to May 18, 2020



Data source: Public Health Sudbury & Districts. Targeted testing date have been modified since last graph to reflect the date they were reported publicly to be consistent with community test reporting.

FIGURE 8. Cumulative tests in Sudbury and districts, March 30 to May 18, 2020



Data source: Public Health Sudbury & Districts. Targeted testing date have been modified since last graph to reflect the date they were reported publicly to be consistent with community test reporting.

TABLE 5. Tests in Sudbury and districts, by population tested (as of May 18, 2020)

Population Tested	Total Tested	% of Eligible Population Tested
General Public	5,936	NA
Long Term Care - Residents	1,632	98.8
Long Term Care - Staff	2,115	99.7
Emergency Child Care Centres - Staff	47	100.0
TOTAL	9,730	NA

Data Source: Public Health Sudbury & Districts

Outbreaks in Facilities

Ontario Ministry of Health direction requires a COVID-19 outbreak be declared in a Long-Term Care home with a single laboratory-confirmed case in a resident or staff member.

- In total there have been **8** COVID-19 outbreaks in area facilities; all outbreaks have been long-term care homes.
A total of **16** cases (6 resident cases and 10 staff cases), and **1** death are associated with these outbreaks.
- Of the declared outbreaks, **3** are currently active, and **5** have been declared over. The outbreaks which remain active are summarized in the table, below

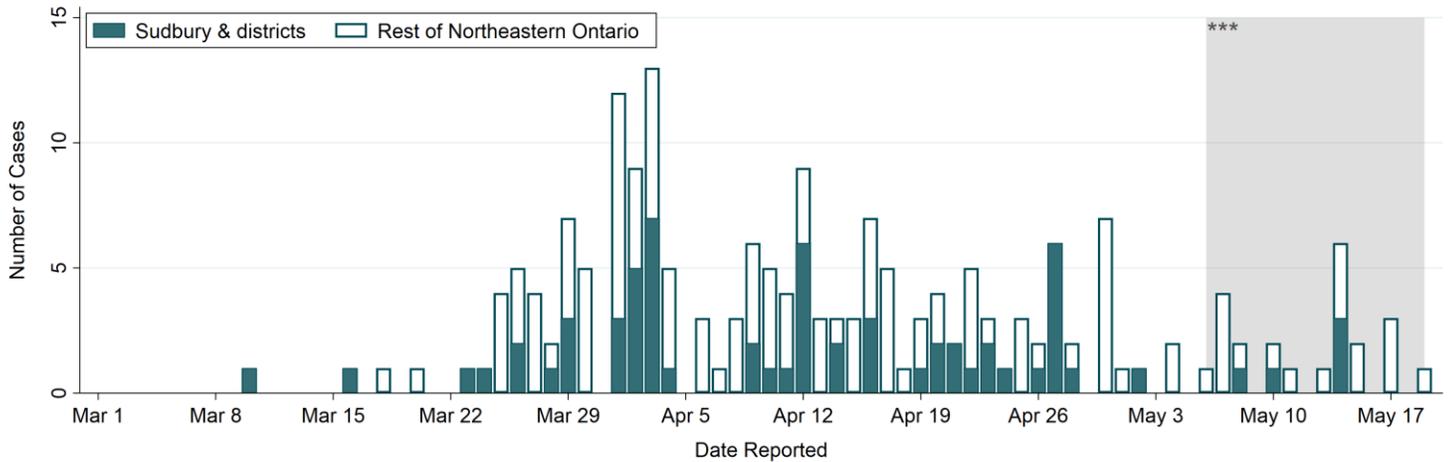
TABLE 6. Summary of active outbreaks in facilities, Sudbury and districts

Name of Facility	Facility Type	Units Affected	Date Active	Total Confirmed Cases
Finlandia Nursing Home	Long-term care home	Facility-wide	May 10	1
Elizabeth Centre	Long-term care home	Facility-wide	May 14	2
Manitoulin Lodge	Long-term care home	Facility-wide	May 14	1

Data Source: Public Health Sudbury & Districts

Regional Context

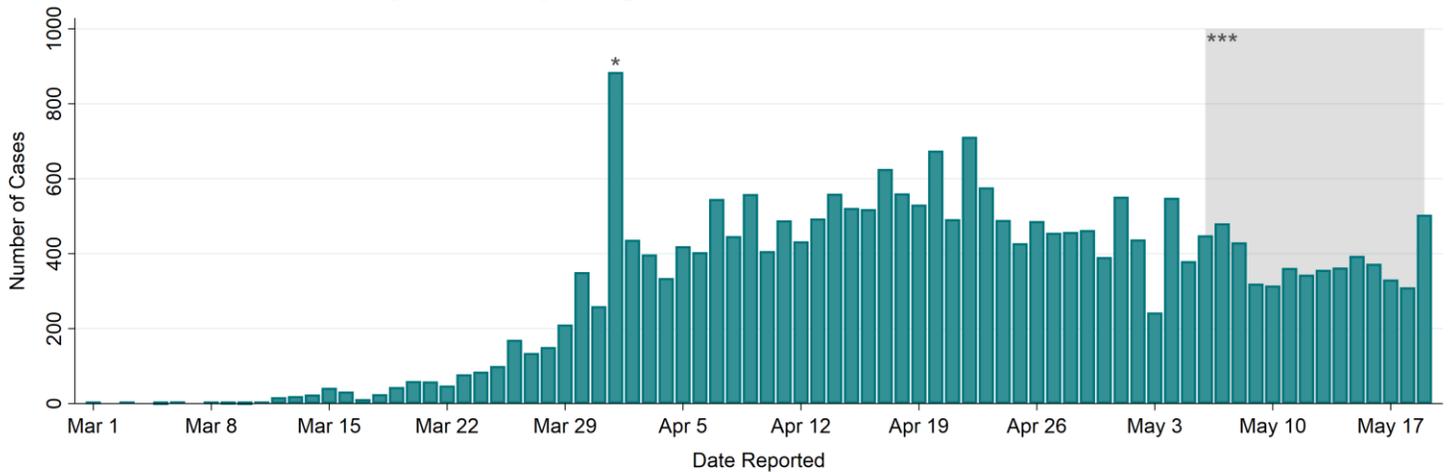
FIGURE 9. Confirmed cases, by date of reporting, Sudbury and districts and Northeastern Ontario



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: May 19, 2020)

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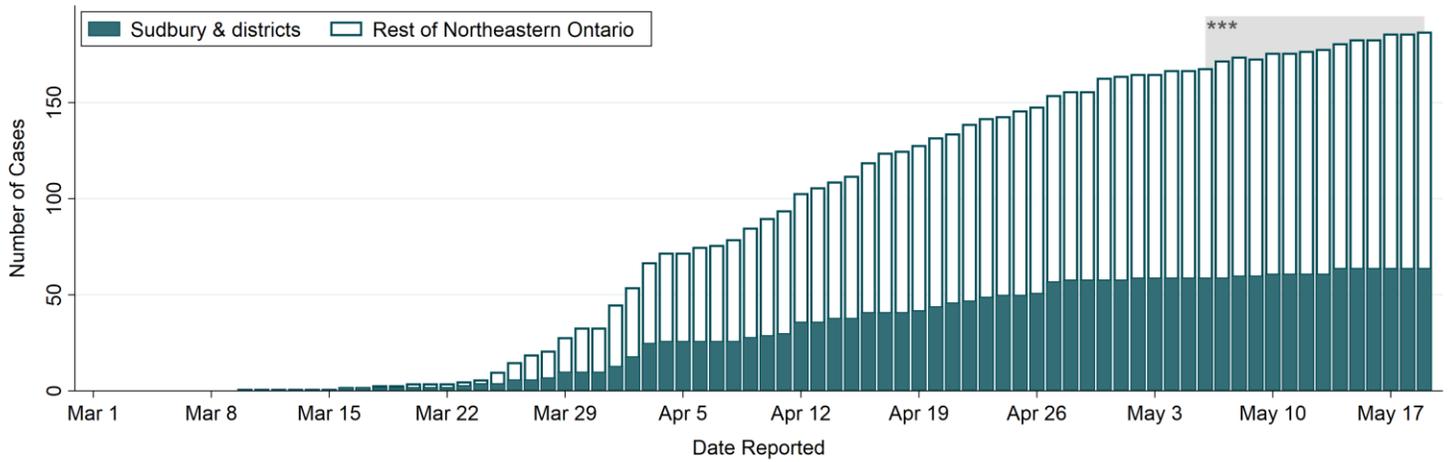
FIGURE 10. Confirmed cases, by date of reporting, Ontario



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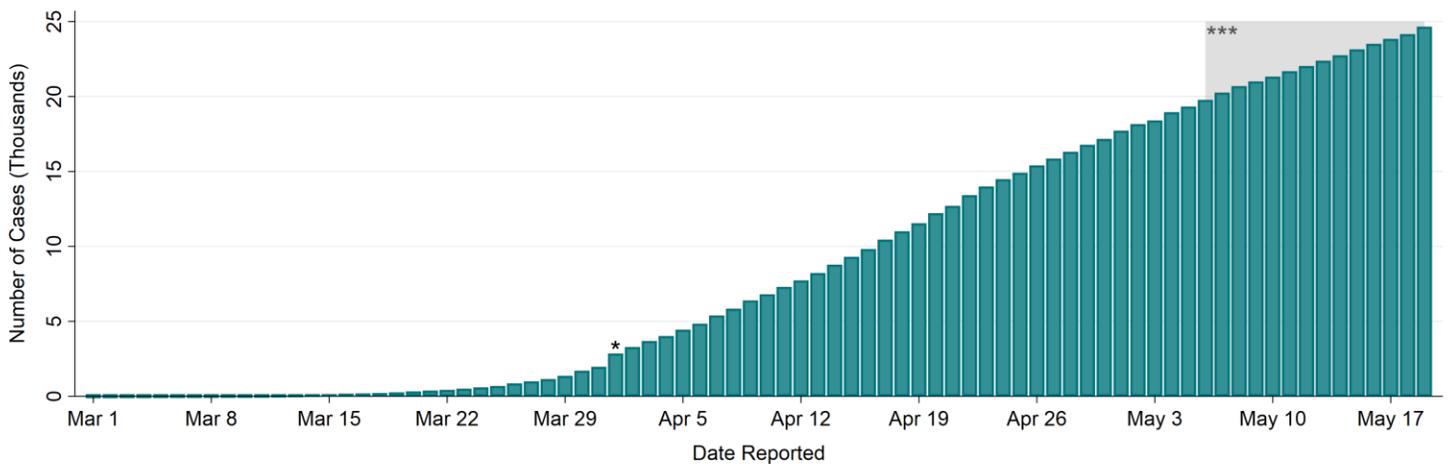
FIGURE 11. Cumulative confirmed cases, by date of reporting, Sudbury and districts and Northeastern Ontario



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: May 19, 2020)

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FIGURE 12. Cumulative confirmed cases, by date of reporting, Ontario



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: May 19, 2020)

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TABLE 7. Regional COVID-19 summary

Geographic Area	Confirmed Cases	Incidence per 100,000*	Deceased	Case Fatality Rate	Resolved	Resolved Rate	Prevalence per 100,000**	Tests per 100,000	% Positive tests	Data Availability***
Canada	78,499	208.8	5,857	7.5%	45,355	57.8%	88.2	3,557 †	5.9% †	May 19
Ontario	23,384	159.5	1,919	8.2%	17,898	76.5%	37.4	3,818	4.2%	May 19
Northern Ontario	287	36.0	10	3.5%	255	88.9%	4.0	4,819	0.8%	May 19
Northeastern Ontario	189	33.8	9	4.8%	161	85.2%	5.0	4,819	0.7%	May 19
Public Health Sudbury & Districts	64	32.2	2	3.1%	59	92.2%	2.5	4,893	0.7%	May 19

Data source: Statistics Canada, Government of Canada COVID-19 Update, Ontario MOH COVID-19 Update, integrated Public Health Information System (iPHIS) database, Northwestern Health Unit, Thunder Bay District Health Unit, Algoma Public Health, North Bay Parry Sound District Health Unit, Public Health Sudbury & Districts, Porcupine Health Unit, Timiskaming Health Unit.

* Incidence is the number of new cases that have occurred since the beginning of the pandemic

** Prevalence is the number of unresolved cases there currently are in the population

*** This report is based on the most currently available information at date and time of production. Public Health Sudbury & Districts may update this table after the 4 PM deadline for Northern health unit reporting to Ontario Health – North.

† The Public Health Agency of Canada reports the number (and rate) of people tested, rather than the number of tests conducted. The numbers presented here for Tests per 100,000 and % Positive Tests reflect are based on those data.