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 November 15, 2020**, <u>unless otherwise specified</u>.

Highlights

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

- **208 confirmed cases** of COVID-19.
- **2 deaths.**
    - The *case fatality rate* is 1.0%.
        - Case Fatality Rate is calculated using the following formula: Total Deaths / Total Confirmed Cases x 100%.
- **100,769 tests** for COVID-19 completed as of end of day on November 14, 2020. Note: this includes preliminary counts of tests completed in the previous 6 days.
    - The *testing rate* is 50,675 tests per 100,000 population.
    - The percent of tests that are positive is 0.2%.
        - This is calculated using the following formula: Total Positive Tests / Total Tests x 100%. Note: an individual may have more than one test completed.

Of the confirmed cases:
- 166 cases (79.8%) were resolved, and there were 42 active cases (20.2%).
- 71 cases (34.1%) were female.
    - Sex is not specified for cases 19 aged years and under.
- 133 cases (63.9%) were less than 40 years of age.
    - Data on gender and age groups are updated when there are sufficient data to ensure individual cases cannot be identified.
- 47 cases (22.6%) had no known epidemiological link (unknown exposure).
- 20 cases (9.6%) are related to outbreaks in 11 long-term care homes.
    - 1 death is related to outbreaks in long-term care homes.

There has been 1 outbreak declared in local schools.
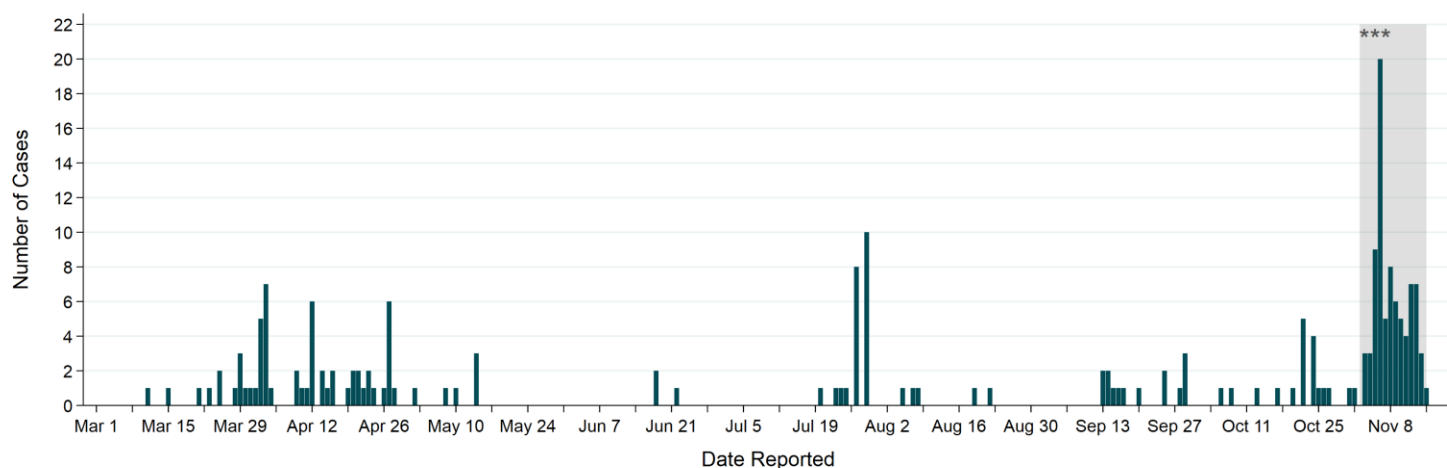
Epidemiology – Sudbury and Districts

Total confirmed cases as of November 15, 2020 at 6:00 PM: **208 Cases**

Cases over time

Notes:
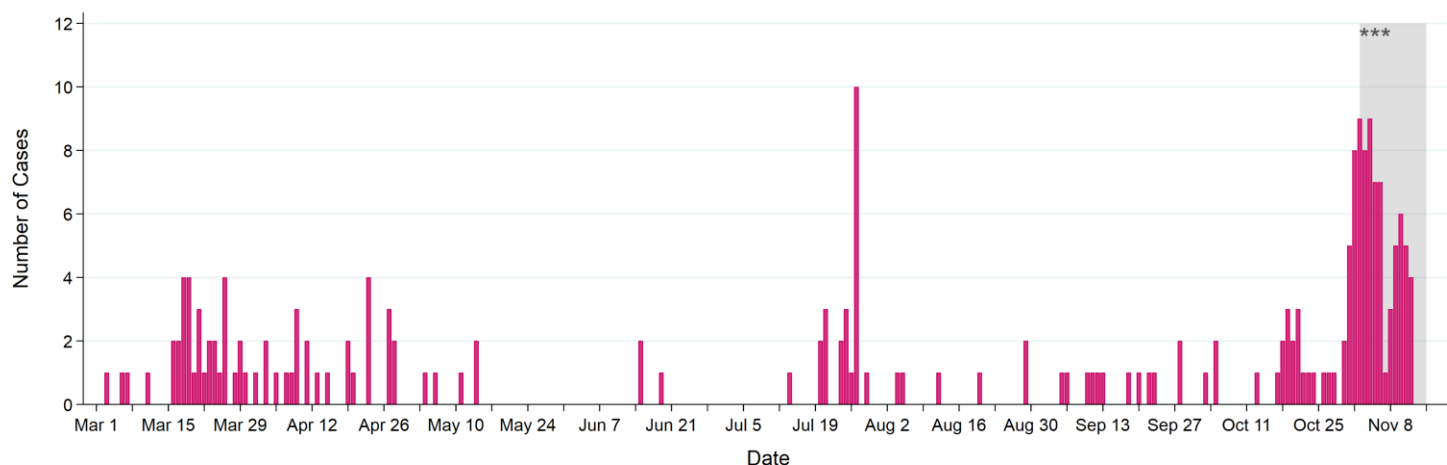External data sources may have slight delays in capturing locally reported cases.

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: November 16, 2020)
*** Illnesses occurring during this period may not yet be reported
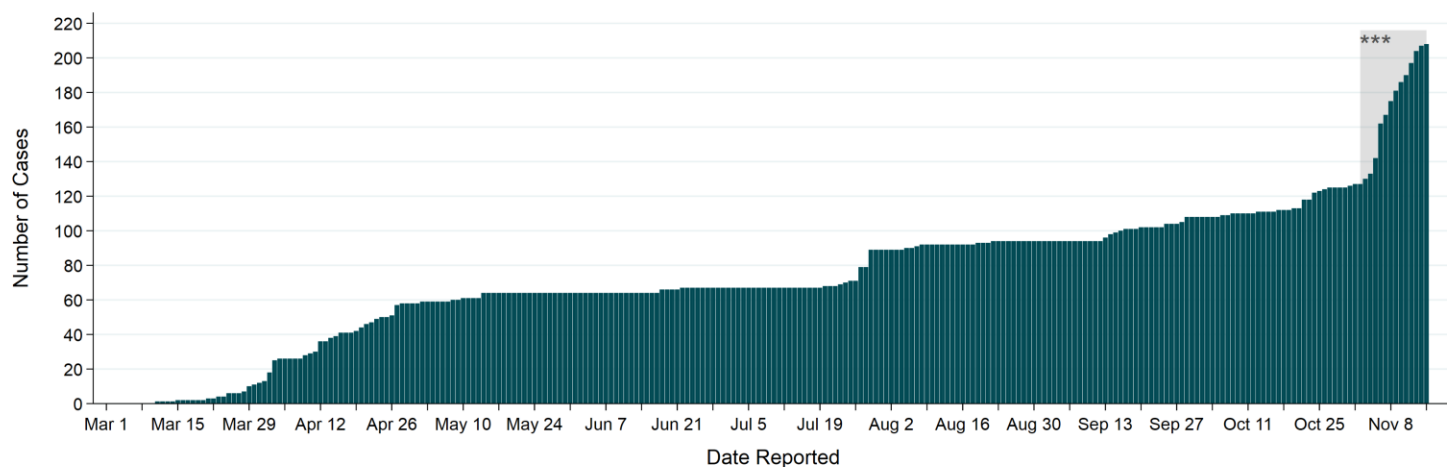
FIGURE 2. Confirmed cases, by date of symptom onset, Sudbury and districts

Data Source: Integrated Public Health Information System (iPHIS), Ministry of Health. (Access Date: November 15, 2020)
*** Illnesses occurring during this period may not yet be reported

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: November 16, 2020)
*** Illnesses occurring during this period may not yet be reported

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

Data Source: Integrated Public Health Information System (iPHIS), Ministry of Health. (Access Date: November 15, 2020)
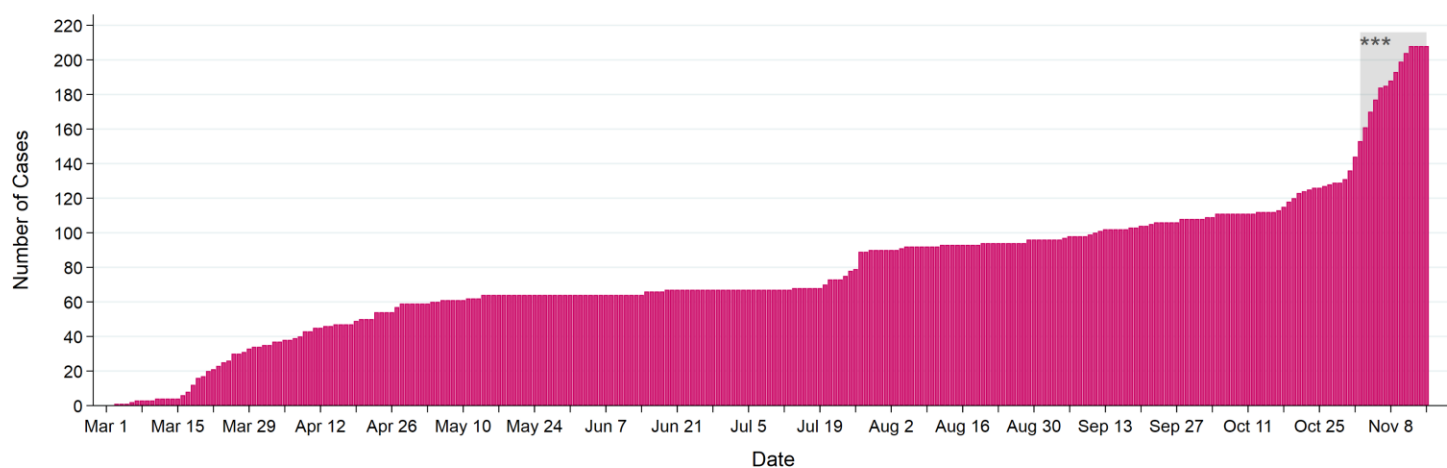*** Illnesses occurring during this period may not yet be reported

Case Characteristics

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

Characteristic	Cases - Total	Percentage (%)	Cases – past week	Percentage (%)
Numbers of Cases	208	100%	41	100%
Change from previous report	12	6.1%*	NA	NA
Sex: Male	100	48.1%	22	53.7%
Sex: Female	71	34.1%	8	19.5%
Sex: Not specified**	37	17.8%	11	26.8%
Ages: 19 and under	38	18.3%	11	26.8%
Ages: 20-39	95	45.7%	25	61.0%
Ages: 40-59	38	18.3%	2	4.9%
Ages: 60-79	30	14.4%	1	2.4%
Ages: 80 and over	7	3.4%	2	4.9%
Ages: Not specified**	0	0.0%	0	0.0%
Area: Greater Sudbury	191	91.8%	34	82.9%
Area: Manitoulin District	6	2.9%	1	2.4%
Area: Sudbury District	11	5.3%	6	14.6%

Data source: Public Health Sudbury & Districts
*Percent change represents the degree of change over time, calculated: (New-Original)/Original
**Data on sex and age groups are updated when there are sufficient data to ensure individual cases cannot be identified. Gender is not specified for cases 19 aged years and under.

Case Outcome

TABLE 2. Case outcomes, by geographic area

Geographic Area	Total Cases	Resolved Cases	Percent Resolved	Active Cases	Percent Active	Deaths	Case Fatality Rate (CFR)
Sudbury and districts	208	166	79.8%	42	20.2%	2	1.0%
Ontario	94,009	81,664	86.9%	12,345	13.1%	3,361	3.6%

Data Source: Public Health Sudbury & Districts and Ontario MOH COVID-19 Update
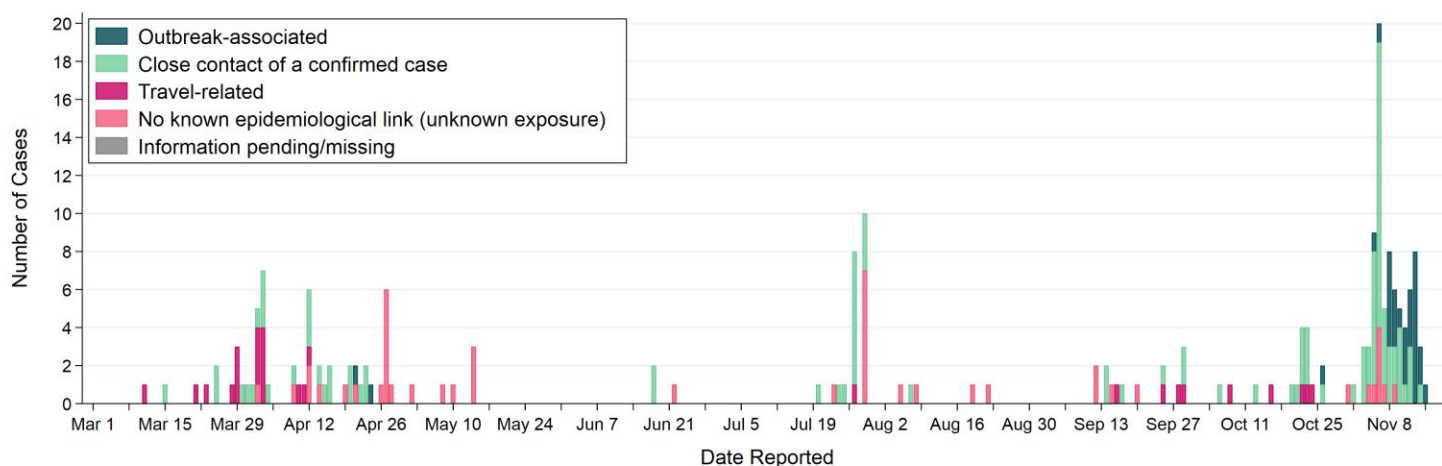
Probable Exposure

Note: Exposure categories have been revised to better align with categories reported provincially.

TABLE 3. Confirmed Cases, by Probable Exposure, Sudbury and districts

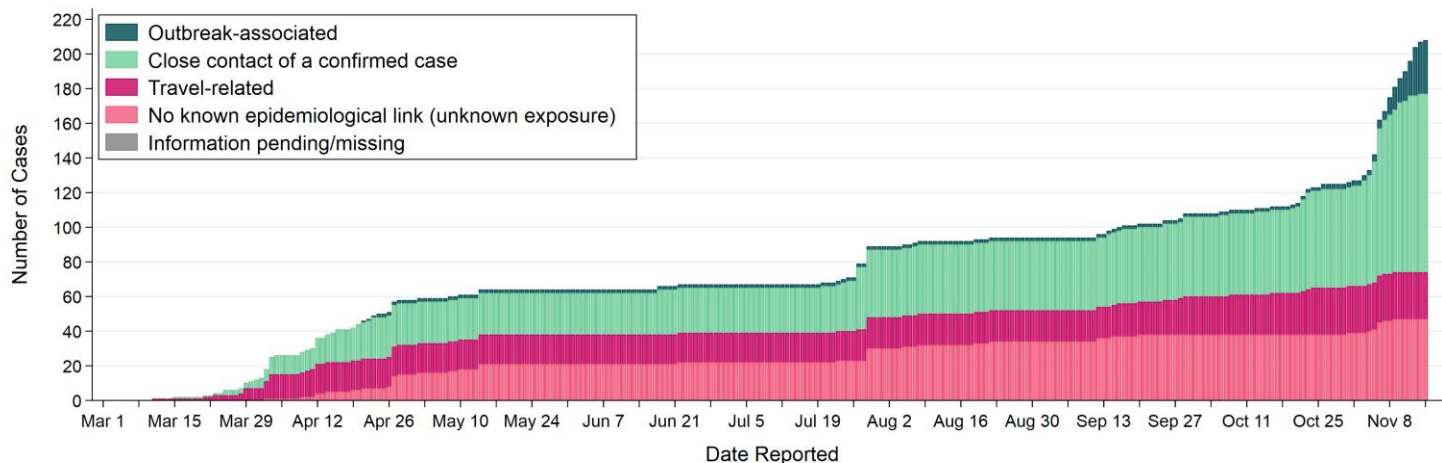| Exposure	Cases - Total	Percentage (%)	Cases - Past week	Percentage (%)
Outbreak-associated	31	14.9%	26	61.9%
Close contact of a confirmed case	103	49.5%	14	33.3%
Travel-related	27	13.0%	0	0.0%
No known epidemiological link (unknown exposure)	47	22.6%	1	2.4%
Information pending/missing	0	0.0%	0	0.0%

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

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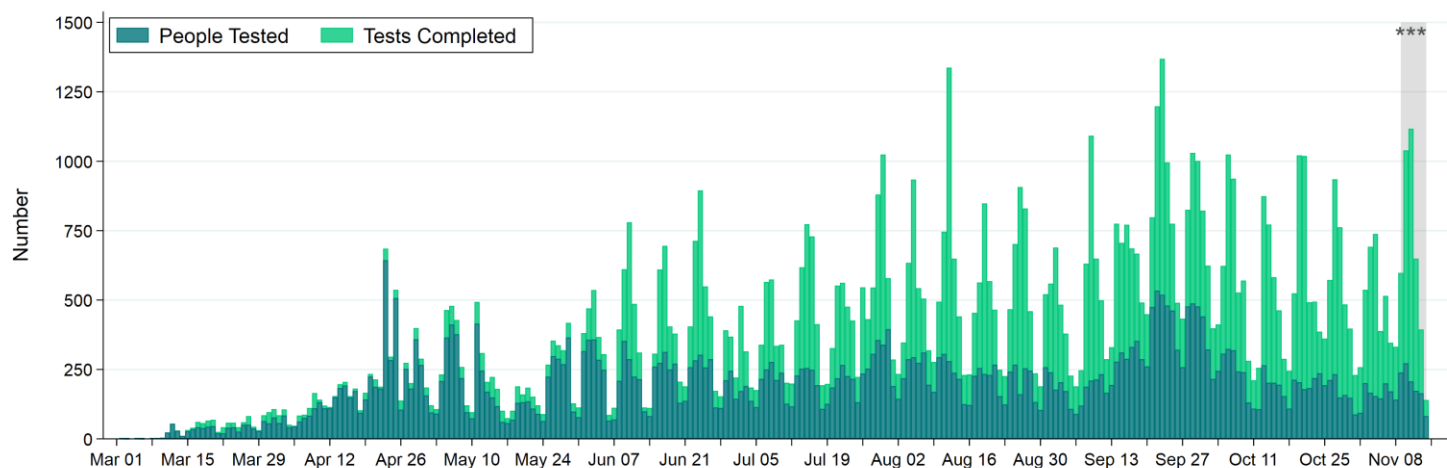

Data source: Public Health Sudbury & Districts

Testing

Total number of tests for COVID-19 as of end of day on November 14, 2020: **100,769 tests** (this includes preliminary counts of tests completed in the previous 6 days.)

Data includes testing from community assessment centres and other health care settings, as well as targeted surveillance initiatives, such as in long-term care homes.
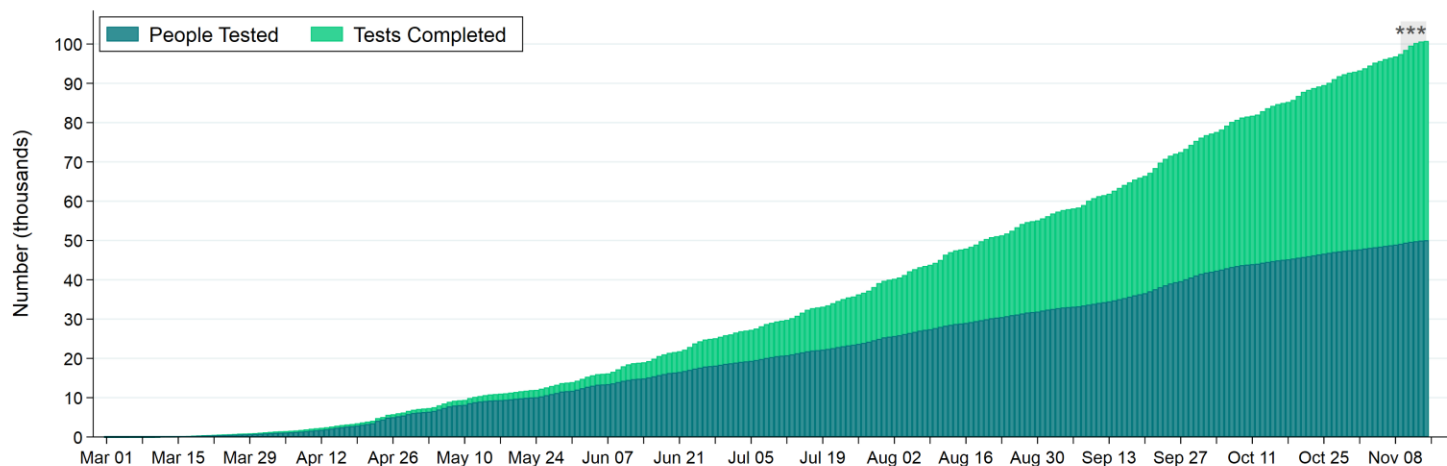
FIGURE 7. Number of tests and people tested in Sudbury and districts, March 30 to November 14, 2020

Data source: COVID-19 Testing Report (SAS Visual Analytics), Ministry of Health, November 16, 2020
*** Preliminary data

FIGURE 8. Cumulative number of tests and people tested in Sudbury and districts, March 30 to November 14, 2020

Data source: COVID-19 Testing Report (SAS Visual Analytics), Ministry of Health, November 16, 2020
*** Preliminary data

Outbreaks in Facilities

As per the most recent provincial directives, outbreaks of COVID-19 are not automatically declared in long-term care homes and other congregate settings with the confirmation of one case. Public Health assesses each unique situation in determining if an outbreak should be declared, including, for example, occupation, exposures in the home, symptoms of the case, specific risk factors, and local epidemiology.

- In total there have been **11** COVID-19 outbreaks in area facilities; all outbreaks have been in long-term care homes. A total of **20** cases (6 resident cases and 14 staff cases), and **1** death is associated with these outbreaks.
- Of the declared outbreaks, **1** are currently active, and **10** have been declared over. The outbreaks which remain active are summarized in the table, below

TABLE 4. Summary of active outbreaks in facilities, Sudbury and districts

Name of Facility	Facility Type	Units Affected	Date Active	Total Confirmed Cases
Pioneer Manor	Long-term care home	Lilac and Mallard Units	Nov 10	1

Data Source: Public Health Sudbury & Districts

Outbreaks in Schools

An outbreak in a school will be declared if there are two or more cases of COVID-19 in a 14-day period that have some link with each other, and with evidence that infection occurred at the school.

- In total there has been **1** COVID-19 outbreak in area schools.
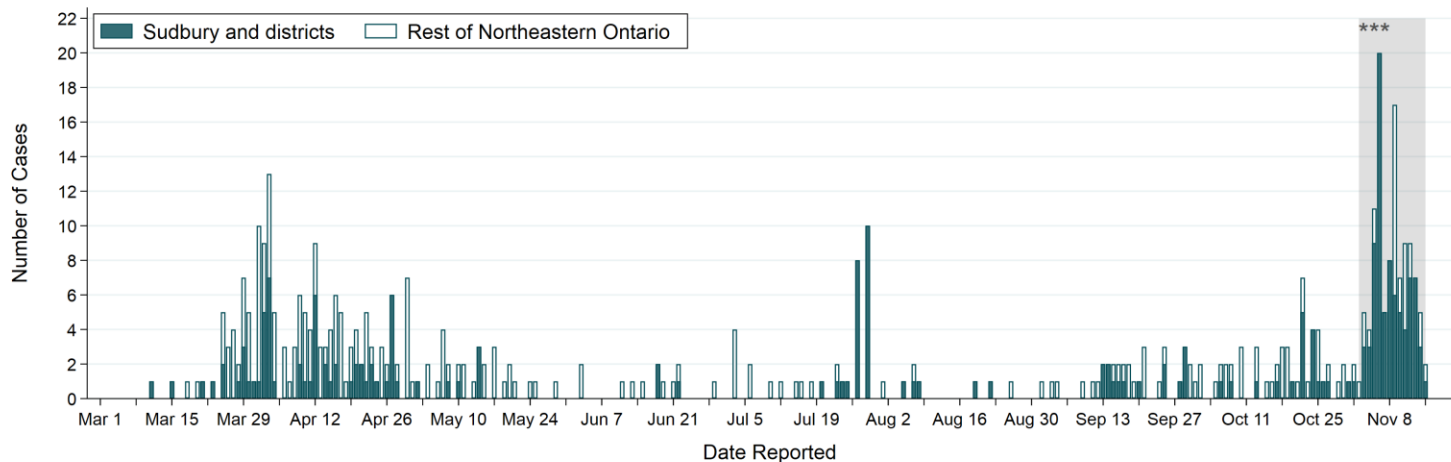- All outbreaks have now been declared over.

TABLE 5. Summary of active outbreaks in schools, Sudbury and districts

There are currently no active COVID-19 outbreaks in area schools.

Data Source: Public Health Sudbury & Districts
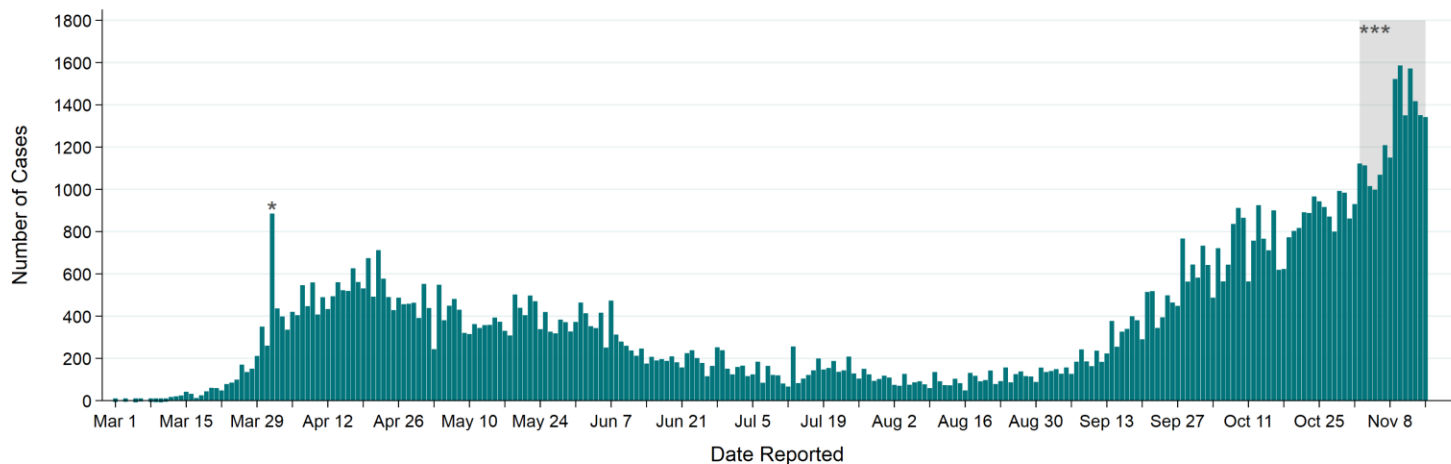
Regional Context

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: November 16, 2020)
*** Illnesses occurring during this period may not yet be reported

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

Data Source: COVID-19 Canada Open Data Working Group https://github.com/ishaberry/Covid19Canada (Access Date: November 16, 2020)
* The large number of cases reported on this day is due to a methodology change in the data source.
*** Illnesses occurring during this period may not yet be reported

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: November 16, 2020)
*** Illnesses occurring during this period may not yet be reported

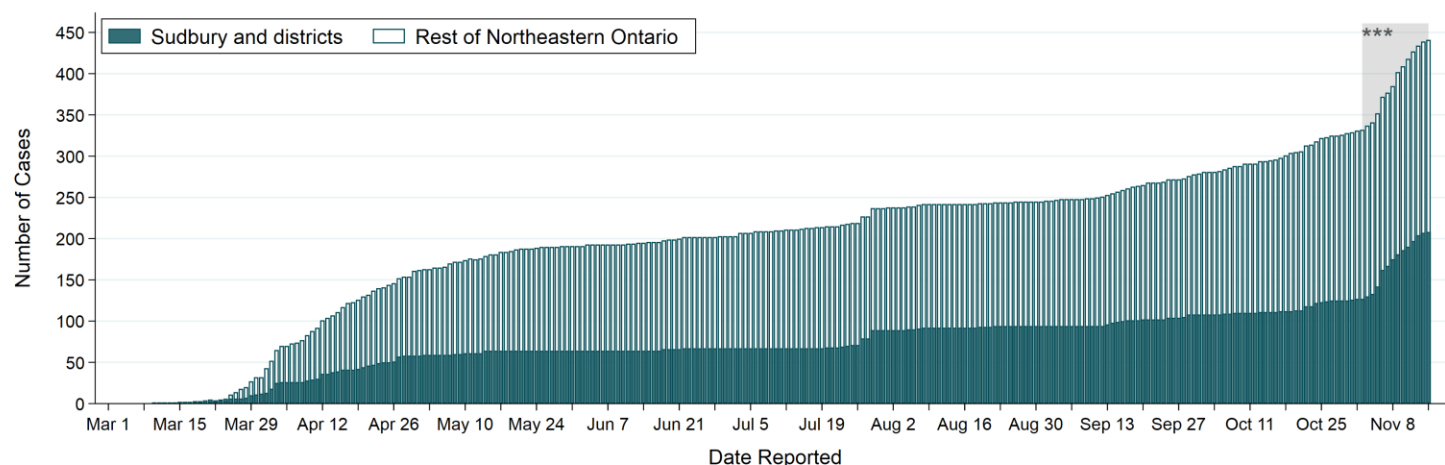**FIGURE 12. Cumulative confirmed cases, by date of reporting, Ontario**

Data Source: COVID-19 Canada Open Data Working Group https://github.com/ishaberry/Covid19Canada (Access Date: November 16, 2020)
* The large number of cases reported on this day is due to a methodology change in the data source.
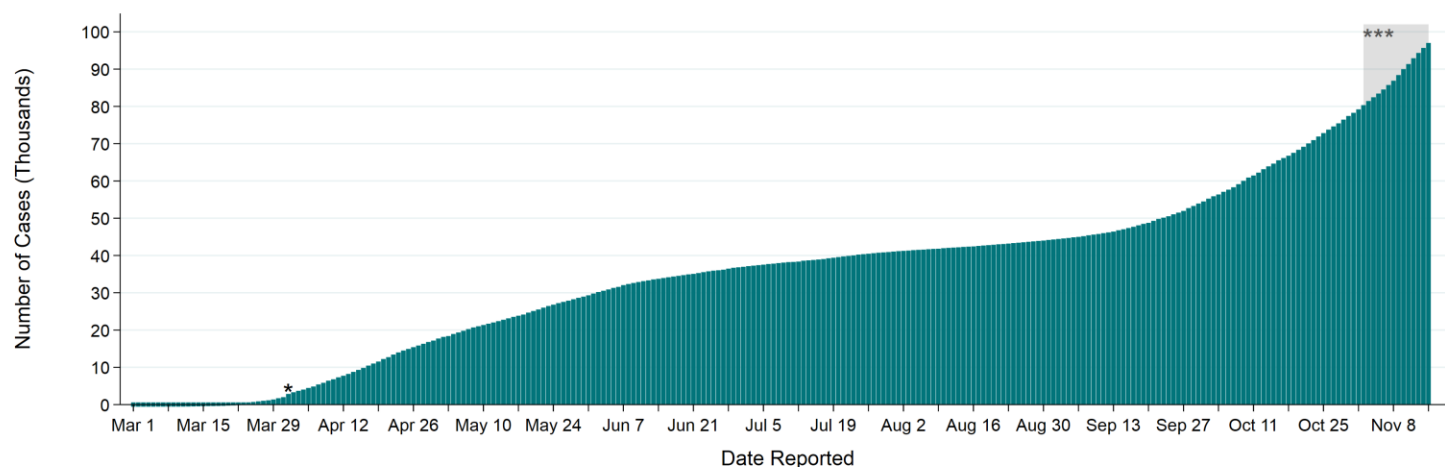*** Illnesses occurring during this period may not yet be reported

TABLE 6. Regional COVID-19 case summary

Geographic Area	Confirmed Cases	Cumulative incidence per 100,000*	Active Cases	Prevalence per 100,000**	Resolved Cases	Resolved Rate	Deceased	Case Fatality Rate	Data Availability†
Canada	296,077	787.7	49,723	132.3	246,354	83.2%	10,953	3.7%	November 15
Ontario	94,009	641.3	12,345	84.2	81,664	86.9%	3,361	3.6%	November 15
Northern Ontario	671	84.2	114	14.3	557	83.0%	13	1.9%	November 13
Northeastern Ontario	437	78.1	78	13.9	359	82.2%	12	2.7%	November 13
Public Health Sudbury & Districts	208	104.6	42	21.1	166	79.8%	2	1.0%	November 15

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.

* Cumulative incidence is the rate at which new cases have occurred since the beginning of the pandemic. ** Prevalence is the current rate of active (unresolved) cases in the population

† This report is based on the most currently available information at date and time of production.

TABLE 7. Regional COVID-19 testing summary

Geographic Area	Tests Completed	Tests per 100,000	% Tests that were Positive*	People Tested	People Tested per 100,000	% People Tested who were Positive**	Data Availability†
Canada	Not Available	Not Available	Not Available	10348040	27,529	2.9%	November 15
Ontario	5,113,232	34,878	2.0%	2,862,771	19,527	3.3%	November 14
Northern Ontario	371,294	46,592	0.2%	181,095	22,725	0.4%	November 14
Northeastern Ontario	259,675	46,420	0.2%	123,656	22,105	0.4%	November 14
Public Health Sudbury & Districts	100,769	50,675	0.2%	50,054	25,171	0.4%	November 14

Data source: Statistics Canada, Government of Canada COVID-19 Update; COVID-19 Testing Report (SAS Visual Analytics), Ontario Ministry of Health, November 16, 2020

* This is calculated using the following formula: Total Positive Tests / Total Tests x 100%. Note: an individual person may be tested on multiple difference occasions. Samples collected on each such occasion may undergo multiple tests, and thus may yield multiple positive tests. The number of positive tests will therefore exceed the number of confirmed cases within an area.

** This is calculated using the following formula: Total Confirmed Cases / Total People Tested x 100%

† This report is based on the most currently available information at date and time of production.