

## Daily Epidemiologic Summary

# COVID-19 in Ontario: January 15, 2020 to November 16, 2020

This report includes the most current information available from CCM and other case management systems (CCM plus) as of **November 16, 2020**.

Please visit the interactive [Ontario COVID-19 Data Tool](#) to explore recent COVID-19 data by public health unit, age group, sex, and trends over time.

A weekly summary report is available with additional information to complement the daily report.

This **daily** report provides an epidemiologic summary of recent COVID-19 activity in Ontario. The change in cases is determined by taking the cumulative difference between the current day and the previous day.

## Highlights

- There are a total of 96,745 confirmed cases\* of COVID-19 in Ontario reported to date
- Compared to the previous day, this represents:
  - An increase of 1,249 confirmed cases (percent change of -16.0%)
  - An increase of 12 deaths (percent change of +20.0%)
  - An increase of 1,135 resolved cases (percent change of +14.4%)

\*The approximately 40 unreported case records from Toronto Public Health on November 14 are included in the counts, resulting in an overestimation of today's counts.

In this document, the term 'change in cases' refers to cases publicly reported by the province for a given day. Data corrections or updates can result in case records being removed and or updated from past reports and may result in subset totals for updated case counts (i.e., age group, gender) differing from the overall updated case counts.

The term public health unit reported date in this document refers to the date local public health units were first notified of the case.

## Case Characteristics

**Table 1a. Summary of recent confirmed cases\* of COVID-19: Ontario**

	Change in cases November 15	Change in cases November 16	Percentage change November 16 compared to November 15	Cumulative case count as of November 16
Total number of cases	1,487	1,249	-16.0%	96,745
Number of deaths	10	12	+20.0%	3,383
Number resolved	992	1,135	+14.4%	80,430

**Note:** The number of cases publicly reported by the province each day may not align with case counts reported to public health on a given day; public health unit reported date refers to the date local public health was first notified of the case.

**Data Source:** CCM plus

\*The approximately 40 unreported case records from Toronto Public Health on November 14 are included in the counts, resulting in an overestimation of today's counts.

**Table 1b. Summary of recent confirmed cases of COVID-19 by age group and gender: Ontario**

	Change in cases November 15	Change in cases November 16	Cumulative case count as of November 16
Gender: Male	734	597	46,781
Gender: Female	744	638	49,459
Ages: 19 and under	213	168	11,039
Ages: 20-39	561	452	35,041
Ages: 40-59	413	378	27,593
Ages: 60-79	214	203	14,242
Ages: 80 and over	88	46	8,817

**Note:** Not all cases have a reported age or gender reported. Data corrections or updates can result in case records being removed and or updated from past reports and may result in subset totals (i.e., age group, gender) differing from past publicly reported case counts.

**Data Source:** CCM plus

**Table 2. Summary of recent confirmed cases of COVID-19 in school aged children by age group, August 30 to November 16, 2020: Ontario**

	Change in cases November 15	Change in cases November 16	Cumulative case count from August 30 to November 16
Ages: 4 to 8	30	28	1,475
Ages: 9 to 13	56	27	1,966
Ages: 14 to 17	61	56	2,053

**Note:** Includes all confirmed cases of COVID-19 for specified ages, regardless of school attendance. Data corrections or updates can result in case records being removed and or updated from past reports and may result in subset totals (i.e., age group) differing from past publicly reported case counts.

**Data Source:** CCM plus

**Table 3. Summary of recent confirmed cases of COVID-19 in long-term care homes: Ontario**

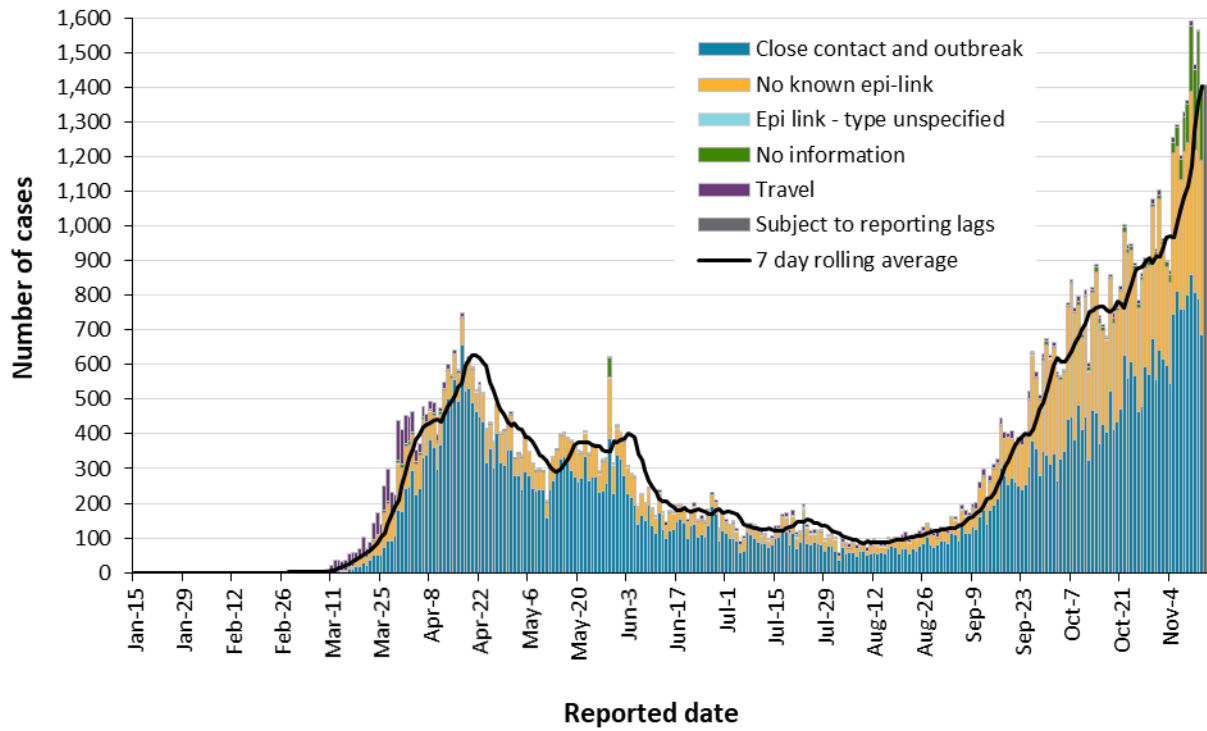
Long-term care home cases	Change in cases November 15	Change in cases November 16	Cumulative case count as of November 16
Residents	62	41	7,788
Health care workers	10	34	3,131
Deaths among residents	4	3	2,148
Deaths among health care workers	0	0	8

**Note:** Information on how long-term care home residents and health care workers are identified is available in the technical notes. Also, the change in cases in these categories may represent existing case records that have been updated.

**Data Source:** CCM plus

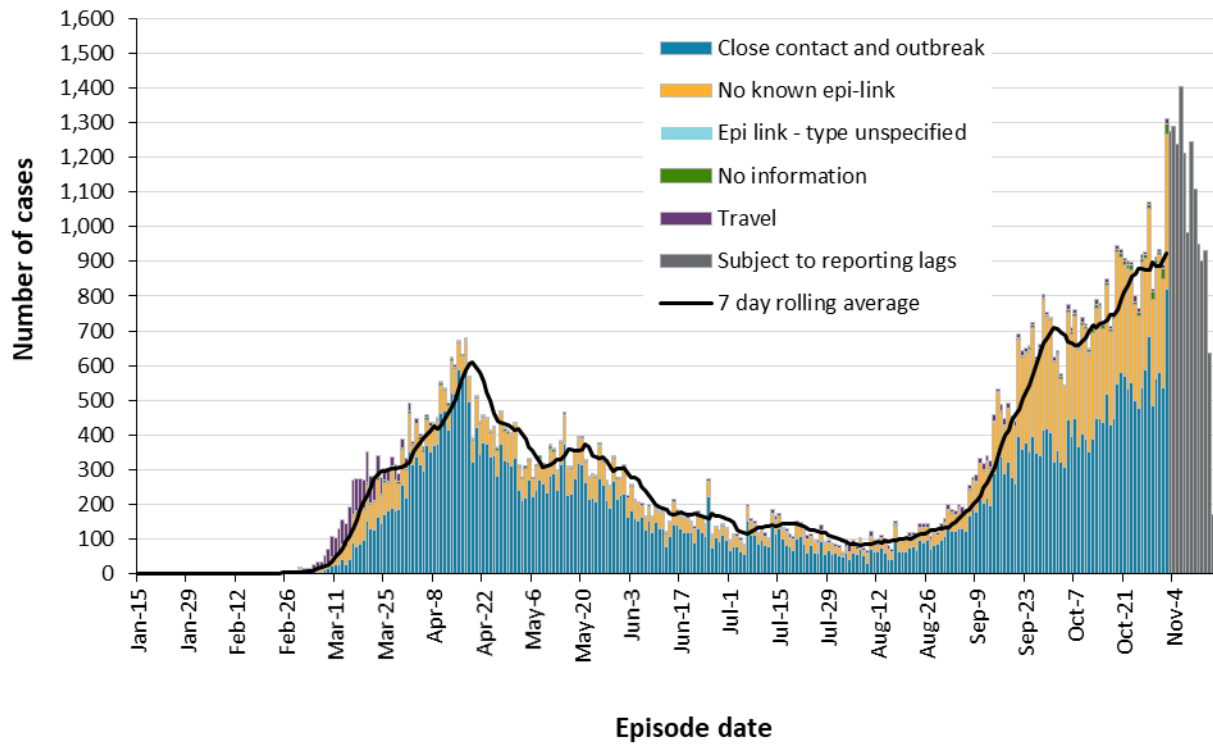
# Time

**Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to November 16, 2020**



Data Source: CCM plus

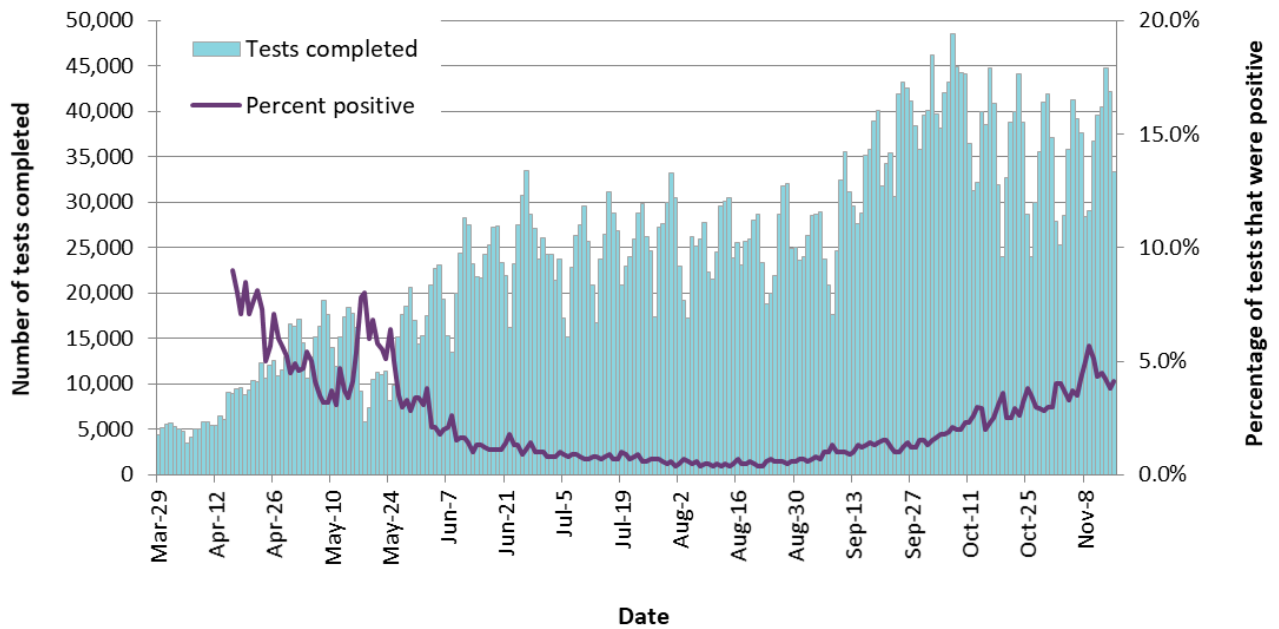
**Figure 2. Confirmed cases of COVID-19 by likely acquisition and approximation of symptom onset date: Ontario, January 15, 2020 to November 16, 2020**



**Note:** Not all cases may have an episode date and those without one are not included in the figure. Episode date is defined and available in the technical notes.

**Data Source:** CCM plus

**Figure 3. Number of COVID-19 tests completed and percent positivity: Ontario, March 29, 2020 to November 15, 2020**

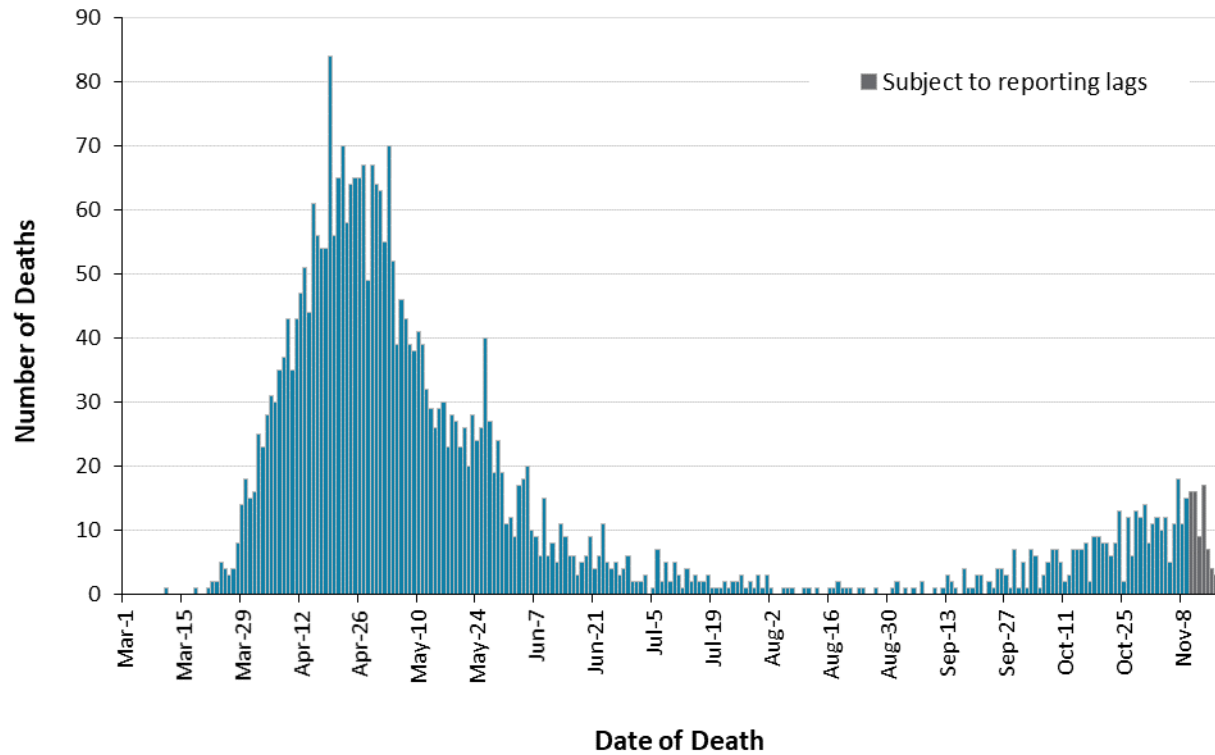


**Note:** The number of tests performed does not reflect the number of specimens or persons tested. More than one test may be performed per specimen or per person. As such, the percentage of tests that were positive does not necessarily translate to the number of specimens or persons testing positive.

**Data Source:** The Provincial COVID-19 Diagnostics Network, data reported by member microbiology laboratories.

## Severity

Figure 4. Confirmed deaths among COVID-19 cases by date of death: Ontario, March 1, 2020 to November 16, 2020



**Note:** Cases without a death date are not included in the figure.

**Data Source:** CCM plus



**Table 4. Confirmed cases of COVID-19 by severity: Ontario**

	Cumulative case count as of November 16	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	3,383	3.5%
Deaths reported in ages: 19 and under	1	0.0%
Deaths reported in ages: 20-39	11	0.0%
Deaths reported in ages: 40-59	138	0.5%
Deaths reported in ages: 60-79	893	6.3%
Deaths reported in ages: 80 and over	2,340	26.5%
Ever in ICU	1,334	1.4%
Ever hospitalized	6,669	6.9%

**Note:** Not all cases have an age reported. Data corrections or updates can result in case records being removed and/or updated and may result in totals differing from past publicly reported case counts.

**Data Source:** CCM plus

## Geography

**Table 5. Summary of recent confirmed cases\* of COVID-19 by public health unit and region: Ontario**

Public Health Unit Name	Change in cases November 15	Change in cases November 16	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	0	0	86	98.1
Thunder Bay District Health Unit	4	9	165	110.0
<b>TOTAL NORTH WEST</b>	4	9	251	105.6
Algoma Public Health	1	0	58	50.7
North Bay Parry Sound District Health Unit	0	0	54	41.6
Porcupine Health Unit	1	0	104	124.6
Public Health Sudbury & Districts	1	1	209	105.0
Timiskaming Health Unit	1	0	18	55.1
<b>TOTAL NORTH EAST</b>	4	1	443	79.2
Ottawa Public Health	51	11	7,966	755.3
Eastern Ontario Health Unit	9	5	748	358.4
Hastings Prince Edward Public Health	3	-1	94	55.8
Kingston, Frontenac and Lennox & Addington Public Health	3	5	224	105.3
Leeds, Grenville & Lanark District Health Unit	1	1	476	274.9
Renfrew County and District Health Unit	6	-5	117	107.7

Public Health Unit Name	Change in cases November 15	Change in cases November 16	Cumulative case count	Cumulative rate per 100,000 population
<b>TOTAL EASTERN</b>	73	16	9,625	499.6
Durham Region Health Department	45	69	3,768	528.9
Haliburton, Kawartha, Pine Ridge District Health Unit	2	3	274	145.0
Peel Public Health	392	256	19,530	1216.1
Peterborough Public Health	6	1	179	121.0
Simcoe Muskoka District Health Unit	35	19	1,757	293.0
York Region Public Health	170	94	8,701	709.8
<b>TOTAL CENTRAL EAST</b>	650	442	34,209	763.5
Toronto Public Health	508	569	33,891	1086.1
<b>TOTAL TORONTO</b>	508	569	33,891	1086.1
Chatham-Kent Public Health	7	6	463	435.5
Grey Bruce Health Unit	10	2	213	125.4
Huron Perth Public Health	4	2	247	176.7
Lambton Public Health	1	0	387	295.5
Middlesex-London Health Unit	5	3	1,368	269.5
Southwestern Public Health	10	6	452	213.7
Windsor-Essex County Health Unit	14	16	3,103	730.4
<b>TOTAL SOUTH WEST</b>	51	35	6,233	368.6
Brant County Health Unit	9	9	477	307.3

Public Health Unit Name	Change in cases November 15	Change in cases November 16	Cumulative case count	Cumulative rate per 100,000 population
City of Hamilton Public Health Services	35	19	2,454	414.4
Haldimand-Norfolk Health Unit	7	0	577	505.8
Halton Region Public Health	46	58	2,860	462.0
Niagara Region Public Health	19	27	1,864	394.5
Region of Waterloo Public Health and Emergency Services	67	42	2,783	476.2
Wellington-Dufferin-Guelph Public Health	14	22	1,078	345.6
<b>TOTAL CENTRAL WEST</b>	197	177	12,093	424.4
<b>TOTAL ONTARIO</b>	<b>1,487</b>	<b>1,249</b>	<b>96,745</b>	<b>650.8</b>

**Notes:** Health units with data corrections or updates could result in records being removed from totals resulting in negative counts.

**Data Source:** CCM plus

\*The approximately 40 unreported case records from Toronto Public Health on November 14 are included in the counts, resulting in an overestimation of today's counts.

## Outbreaks

**Table 6. Summary of recent confirmed COVID-19 outbreaks reported in long-term care homes, retirement homes and hospitals by status: Ontario**

Institution type	Change in outbreaks November 15	Change in outbreaks November 16	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	6	4	96	643
Retirement homes	2	4	63	315
Hospitals	0	0	26	148

**Note:** Ongoing outbreaks includes all outbreaks that are 'Open' in CCM plus without a 'Declared Over Date' recorded.

**Data Source:** CCM plus

# Technical Notes

## Data Sources

- The data for this report were based on:
  - Information extracted from the Ontario Ministry of Health (Ministry) integrated Public Health Information System (iPHIS) database for Toronto Public Health as of **November 16, 2020 at 3 p.m.**
  - Information successfully uploaded to the Ministry from Local Systems: Toronto Public Health (Coronavirus Rapid Entry System) CORES, The Ottawa Public Health COVID-19 Ottawa Database (The COD) and Middlesex-London COVID-19 Case and Contact Management Tool (CCMtool) as of **November 16, 2020 at 2 p.m.**
  - Information successfully uploaded to the Ministry from the Public Health Case and Contact Management Solution (CCM) for all other PHUs as of **November 16, 2020 at 1 p.m.**
- CCM and CCM plus (which includes CCM, iPHIS, CORES, The COD and COVID-19 CCMtool) are dynamic disease reporting systems, which allow ongoing updates to data previously entered. As a result, data extracted from CCM and the Local Systems represent a snapshot at the time of extraction and may differ from previous or subsequent reports.
- Ontario population projection data for 2020 were sourced from Ministry, IntelliHEALTH Ontario. Data were extracted on November 26, 2019.
- COVID-19 test data were based on information from The Provincial COVID-19 Diagnostics Network, reported by member microbiology laboratories.

## Data Caveats

- The data only represent cases reported to public health units and recorded in CCM plus. As a result, all counts will be subject to varying degrees of underreporting due to a variety of factors, such as disease awareness and medical care seeking behaviours, which may depend on severity of illness, clinical practice, changes in laboratory testing, and reporting behaviours.
- Lags in CCM plus data entry due to weekend staffing may result in lower case counts than would otherwise be recorded.
- Only cases meeting the confirmed case classification as listed in the MOH [COVID-19 case definition](#) are included in the report counts from CCM plus. This includes persons with a positive detection of serum/plasma immunoglobulin G (IgG) antibodies to SARS-CoV-2, which was added to the confirmed case definition on August 6, 2020.
- The number of tests performed does not reflect the number of specimens or persons tested. More than one test may be performed per specimen or per person. As such, the percentage of tests that were positive does not necessarily translate to the number of specimens or persons testing positive.

- Reported date is the date the case was reported to the public health unit.
- Case episode date is based on an estimate of the best date of disease onset. This date is calculated based on either the date of symptom onset, specimen collection/test date, or the date reported to the public health unit.
- Resolved cases are determined only for COVID-19 cases that have not died. Cases that have died are considered fatal and not resolved. The following cases are classified as resolved:
  - Cases that are reported as 'recovered' in CCM
  - Cases that are not hospitalized and are 14 days past their episode date
  - Cases that are currently hospitalized (no hospital end date entered) and have a status of 'closed' in CCM (indicating public health unit follow-up is complete) and are 14 days past their symptom onset date or specimen collection date
- Hospitalization includes all cases for which a hospital admission date was reported at the time of data extraction. It includes cases that have been discharged from hospital as well as cases that are currently hospitalized. Emergency room visits are not included in the number of reported hospitalizations.
- ICU admission includes all cases for which an ICU admission date was reported at the time of data extraction. It is a subset of the count of hospitalized cases. It includes cases that have been treated or that are currently being treated in an ICU.
- Orientation of case counts by geography is based on the diagnosing health unit (DHU). DHU refers to the case's public health unit of residence at the time of illness onset and not necessarily the location of exposure. Cases for which the DHU was reported as MOH (to signify a case that is not a resident of Ontario) have been excluded from the analyses.
- Likely source of acquisition is determined by examining the epidemiologic link and epidemiologic link status fields in CCM and local systems. If no epidemiologic link is identified in those fields the risk factor fields are examined to determine whether a case travelled, was associated with an outbreak, was a contact of a case, had no known epidemiological link (sporadic community transmission) or was reported to have an unknown source/no information was reported. Some cases may have no information reported if the case is untraceable, was lost to follow-up or referred to FNIHB. Cases with multiple risk factors were assigned to a single likely acquisition source group which was determined hierarchically in the following order:
  - For cases with an episode date *on or after* April 1, 2020: Outbreak-associated > close contact of a confirmed case > travel > no known epidemiological link > information missing or unknown
  - For cases with an episode date *before* April 1, 2020: Travel > outbreak-associated > close contact of a confirmed case > no known epidemiological link > information missing or unknown

- Deaths are determined by using the outcome field in CCM plus. Any case marked 'Fatal' is included in the deaths data. The CCM field Type of Death is not used to further categorize the data.
  - The date of death is determined using the outcome date field for cases marked as 'Fatal' in the outcome field.
- CCM/iPHIS cases for which the Disposition Status was reported as ENTERED IN ERROR, DOES NOT MEET DEFINITION, DOES NOT MEET, IGNORE, DUPLICATE-DO NOT USE, or any variation on these values have been excluded. The provincial case count for COVID-19 includes cases that are counted once across all systems from which the case data are obtained. Duplicate records may exist if these records were not identified and resolved prior to data upload to the Ministry.
- Ongoing outbreaks are those that are reported in CCM plus as 'Open' without a 'Declared Over Date' recorded.
- 'Long-term care home residents' includes cases that reported 'Yes' to the risk factor 'Resident of a long-term care home'; or 'Yes' to the risk factor 'Resident of nursing home or other chronic care facility' and reported to be part of an outbreak assigned as a long-term care home (via the Outbreak number or case comments field); or were reported to be part of an outbreak assigned as a long-term care home (via the outbreak number or case comments field) with an age over 70 years and did not report 'No' to the risk factors 'Resident of long-term care home' or 'Resident of nursing home or other chronic care facility'. 'Long-term care home residents' excludes cases that reported 'Yes' to any of the health care worker occupational risk factors.
- The 'health care workers' variable includes cases that reported 'Yes' to any of the occupation of health care worker, doctor, nurse, dentist, dental hygienist, midwife, other medical technicians, personal support worker, respiratory therapist, first responder.
- 'Health care workers associated with long-term care outbreaks' includes 'health care workers' reported to be part of an outbreak assigned as a long-term care home (via the outbreak number or case comments field). Excludes cases that reported 'Yes' to risk factors 'Resident of long-term care home' or 'Resident of nursing home or other chronic care facility' and 'Yes' to the calculated 'health care workers' variable.
- Percent change is calculated by taking the difference between the current period (i.e., daily count or sum of the daily count over a 7-day period) and previous period (i.e., daily count or sum of the daily count over a 7-day period), divided by the previous period.



## Appendix A

**Table A1. Weekly rates of confirmed COVID-19 cases per 100,000 population over recent rolling 7-day periods, by reported date and public health unit: Ontario, November 1, 2020 to November 13, 2020**

Public Health Unit Name	Nov 1 to Nov 7	Nov 2 to Nov 8	Nov 3 to Nov 9	Nov 4 to Nov 10	Nov 5 to Nov 11	Nov 6 to Nov 12	Nov 7 to Nov 13	% change from Nov 1-7 to Nov 7-13
<b>NORTH WEST</b>								
Northwestern Health Unit	6.8	5.7	5.7	4.6	9.1	9.1	9.1	+33.8%
Thunder Bay District Health Unit	8.0	10.0	15.3	16.0	17.3	18.0	18.7	+133.8%
<b>NORTH EAST</b>								
Algoma Public Health	3.5	9.6	8.7	9.6	8.7	8.7	8.7	+148.6%
North Bay Parry Sound District Health Unit	1.5	3.1	3.1	5.4	6.2	5.4	5.4	+260.0%
Porcupine Health Unit	1.2	2.4	2.4	3.6	3.6	3.6	2.4	+100.0%
Public Health Sudbury & Districts	19.1	22.6	24.6	27.6	29.6	25.6	20.6	+7.9%
Timiskaming Health Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>EASTERN</b>								
Ottawa Public Health	37.4	37.0	34.7	36.2	39.0	40.5	40.7	+8.8%
Eastern Ontario Health Unit	30.7	30.2	31.6	28.3	26.4	21.6	21.1	-31.3%
Hastings Prince Edward Public Health	1.8	1.8	1.8	1.8	1.2	3.0	4.7	+161.1%
Kingston, Frontenac and Lennox & Addington Public Health	2.4	4.2	4.7	6.1	9.4	8.9	13.6	+466.7%

Public Health Unit Name	Nov 1 to Nov 7	Nov 2 to Nov 8	Nov 3 to Nov 9	Nov 4 to Nov 10	Nov 5 to Nov 11	Nov 6 to Nov 12	Nov 7 to Nov 13	% change from Nov 1-7 to Nov 7-13
Leeds, Grenville & Lanark District Health Unit	5.2	5.2	7.5	9.2	8.7	9.8	8.7	+67.3%
Renfrew County and District Health Unit	8.3	6.4	6.4	5.5	6.4	5.5	6.4	-22.9%
<b>CENTRAL EAST</b>								
Durham Region Health Department	40.3	34.7	33.1	37.8	42.7	44.8	46.3	+14.9%
Haliburton, Kawartha, Pine Ridge District Health Unit	2.6	3.2	3.7	3.2	2.6	3.2	4.8	+84.6%
Peel Public Health	120.6	124.7	137.2	151.7	161.7	174.5	176.8	+46.6%
Peterborough Public Health	4.7	4.7	4.7	7.4	8.8	8.1	10.8	+129.8%
Simcoe Muskoka District Health Unit	19.0	19.2	18.5	20.2	21.8	24.7	26.2	+37.9%
York Region Public Health	55.5	55.2	59.8	67.9	75.4	75.4	76.2	+37.3%
<b>TORONTO</b>								
Toronto Public Health	82.3	85.7	89.3	95.1	99.9	102.5	100.9	+22.6%
<b>SOUTH WEST</b>								
Chatham-Kent Public Health	10.3	8.5	8.5	21.6	23.5	24.5	27.3	+165.0%
Grey Bruce Health Unit	6.5	7.1	8.2	8.2	10.6	11.2	14.1	+116.9%
Huron Perth Public Health	16.5	22.2	34.3	40.1	43.6	43.6	45.8	+177.6%
Lambton Public Health	6.1	6.1	5.3	4.6	4.6	6.1	6.1	0.0%
Middlesex-London Health Unit	20.1	23.6	24.0	24.2	28.2	24.4	26.6	+32.3%

Public Health Unit Name	Nov 1 to Nov 7	Nov 2 to Nov 8	Nov 3 to Nov 9	Nov 4 to Nov 10	Nov 5 to Nov 11	Nov 6 to Nov 12	Nov 7 to Nov 13	% change from Nov 1-7 to Nov 7-13
Southwestern Public Health	23.6	17.0	12.8	18.9	22.2	22.2	26.0	+10.2%
Windsor-Essex County Health Unit	17.9	20.2	20.5	25.4	31.5	35.8	40.3	+125.1%
<b>CENTRAL WEST</b>								
Brant County Health Unit	37.4	36.7	30.9	29.0	31.6	28.3	26.4	-29.4%
City of Hamilton Public Health Services	48.1	52.5	54.2	56.7	55.6	54.4	50.7	+5.4%
Haldimand-Norfolk Health Unit	22.8	24.5	24.5	22.8	19.3	18.4	19.3	-15.4%
Halton Region Public Health	57.3	58.0	55.6	55.6	55.7	57.2	57.3	0.0%
Niagara Region Public Health	36.8	36.8	41.9	43.2	45.1	40.2	40.0	+8.7%
Region of Waterloo Public Health and Emergency Services	30.6	34.1	38.3	42.4	45.5	50.0	54.4	+77.8%
Wellington-Dufferin-Guelph Public Health	25.0	27.3	28.2	30.5	31.7	29.5	32.1	+28.4%
<b>TOTAL ONTARIO</b>	<b>51.0</b>	<b>52.5</b>	<b>55.2</b>	<b>59.8</b>	<b>63.7</b>	<b>65.8</b>	<b>66.4</b>	<b>+30.2%</b>

**Note:** Rates are based on the sum of the daily case counts during the date ranges specified in each column.

**Data Source:** CCM plus

## Disclaimer

This document was developed by Public Health Ontario (PHO). PHO provides scientific and technical advice to Ontario's government, public health organizations and health care providers. PHO's work is guided by the current best available evidence at the time of publication.

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## For Further Information

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