

DAILY EPIDEMIOLOGICAL SUMMARY

COVID-19 in Ontario: January 15, 2020 to March 19, 2022

Due to changes in the Ministry of Health's [updated guidance on testing and case, contact and outbreak management](#), case counts in this report are an underestimate of the true number of individuals with COVID-19 in Ontario. In addition, data for hospitalizations, intensive care unit (ICU) admission and deaths in the most recent reporting period should be interpreted with caution due to data entry and reporting lags.

In alignment with the Ministry of Health's updates to COVID-19 death reporting, COVID-19 deaths in this report will include deaths for which COVID-19 is the underlying cause of death, COVID-19 contributed to but was not the underlying cause of death, and those with a type of death unknown or missing.

Introduction

This report includes the most current information available from CCM as of **March 19, 2022**.

A [weekly summary report](#) is available with additional information to complement the daily report.

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. For more information about whole genome sequencing, please see the [SARS CoV-2 Whole Genome Sequencing in Ontario 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.

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, sex) 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.

Highlights

- There are a total of 1,138,201 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
 - An increase of 1,680 confirmed cases (percent change of -19.2%)
 - An increase of 3* deaths (percent change of -76.9%)
 - An increase of 1,520 resolved cases (percent change of -10.8%)

*This number only includes deaths that have occurred in the last month.

Case Characteristics

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

	Change in cases March 18, 2022	Change in cases March 19, 2022	Percentage change March 19, 2022 compared to March 18, 2022	Cumulative case count as of March 19, 2022
Total number of cases	2,078	1,680	-19.2%	1,138,201
Number of deaths	13	3	-76.9%	12,332
Number resolved	1,704	1,520	-10.8%	1,109,360

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 corrections or updates can result in case records being removed and or updated from past reports. The number of deaths presented in the change in cases column for each day only includes deaths that occurred in the last 30 days.

Data Source: CCM

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

	Change in cases March 18, 2022	Change in cases March 19, 2022	Cumulative case count as of March 19, 2022
Sex: Male	850	655	539,691
Sex: Female	1,167	1,004	591,619
Ages: 0-4	58	42	33,953
Ages: 5-11	97	76	68,450
Ages: 12-19	167	121	97,960
Ages: 20-39	854	625	435,233
Ages: 40-59	565	524	316,215
Ages: 60-79	235	217	136,844
Ages: 80 and over	92	77	49,158

Note: Not all cases have an age or sex 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, sex) differing from past publicly reported case counts.

Data Source: CCM

Table 2. Summary of recent confirmed cases of COVID-19 in long-term care homes: Ontario

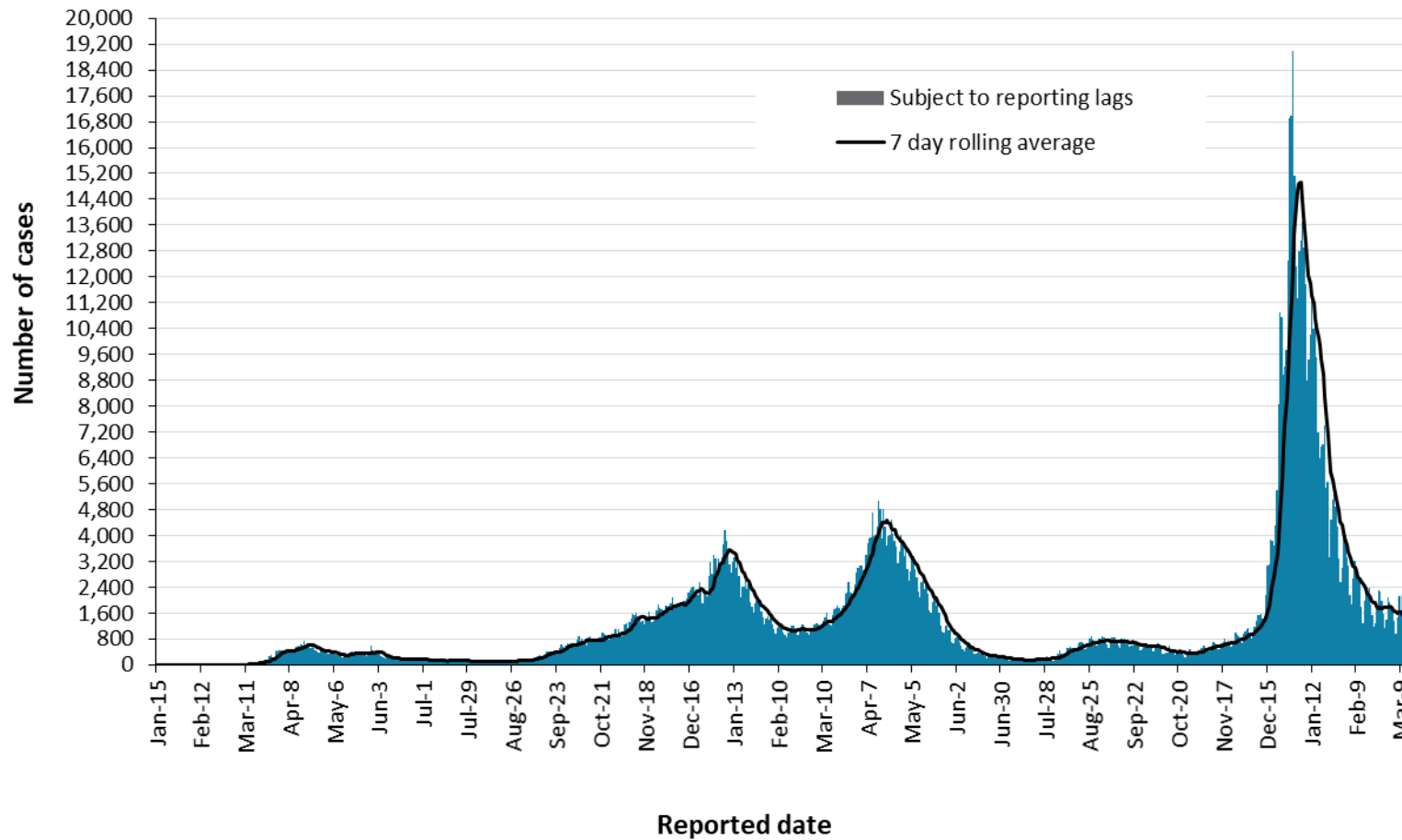
Long-term care home cases	Change in cases March 18, 2022	Change in cases March 19, 2022	Cumulative case count as of March 19, 2022
Residents	58	29	25,409
Health care workers	23	11	11,709
Deaths among residents	6	0	4,398
Deaths among health care workers	0	0	10

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

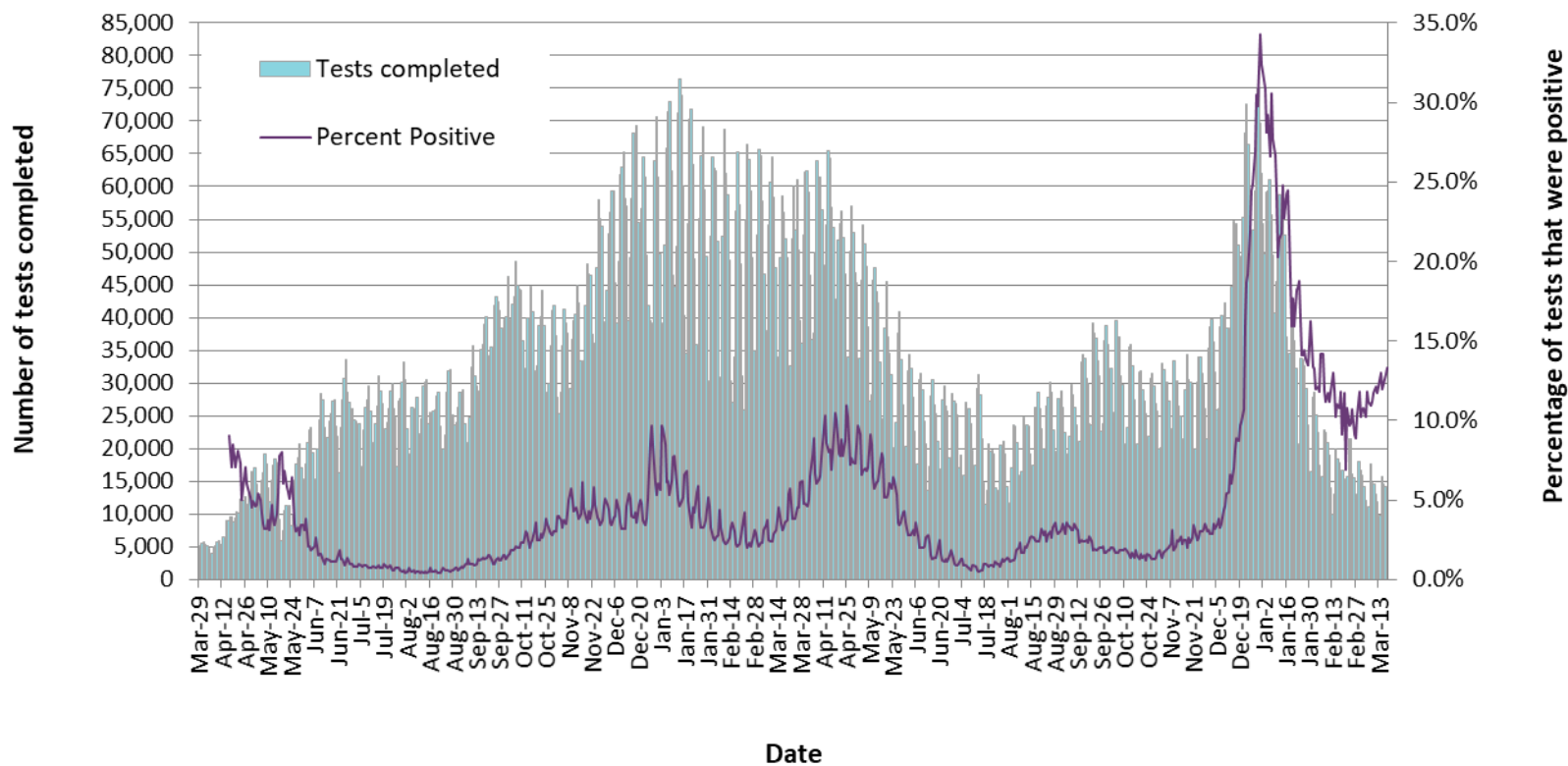
Time

Figure 1. Confirmed cases of COVID-19 by public health unit reported date: Ontario, January 15, 2020 to March 19, 2022



Note: Changes in testing eligibility went into effect on December 31, 2021, limiting access to testing and resulting in a change in the population being tested.
Data Source: CCM

Figure 2. Number of COVID-19 tests completed and percent positivity: Ontario, March 29, 2020 to March 18, 2022

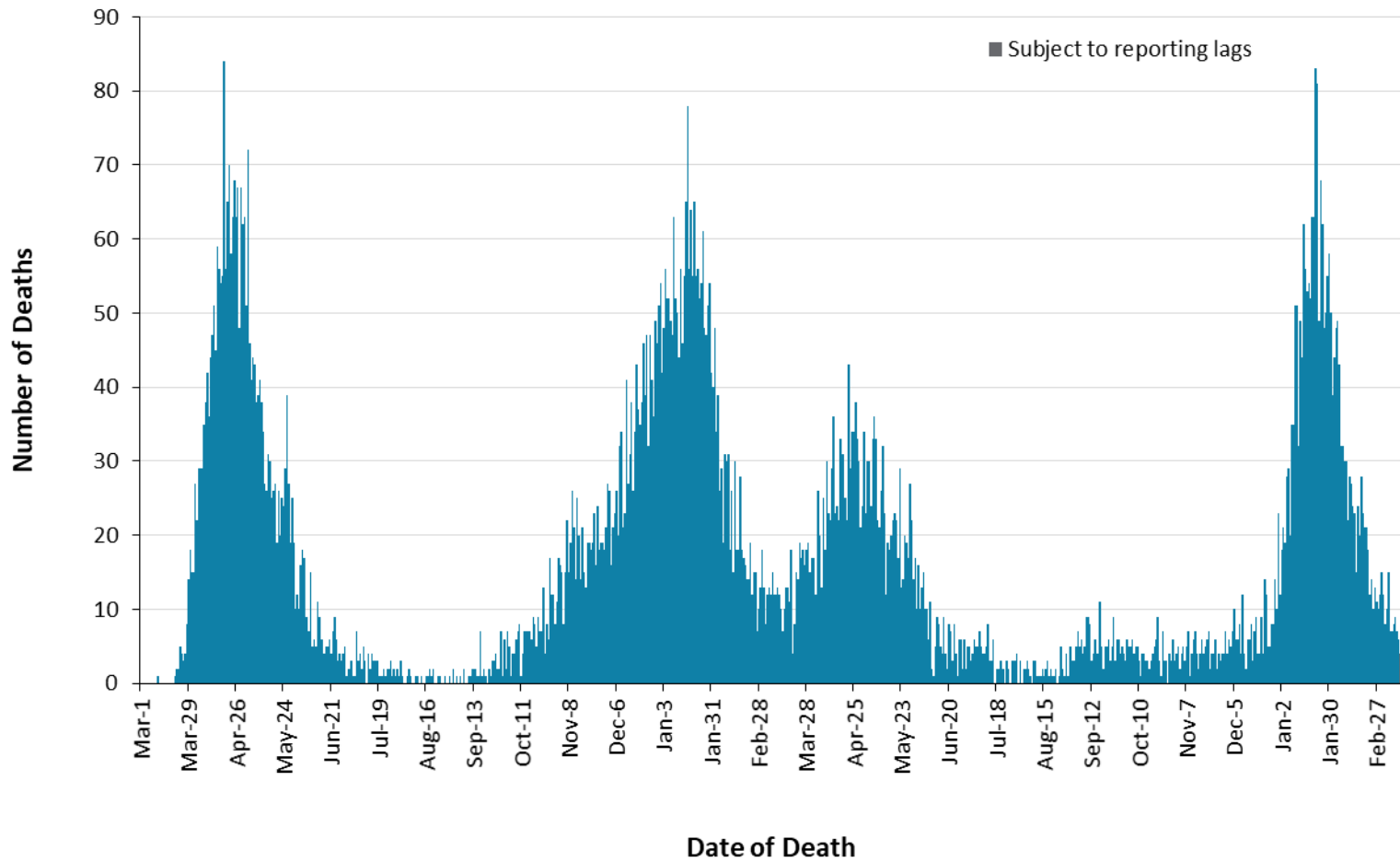


Note: The number of tests performed does not reflect the number of specimens or persons tested. More than one test may be performed per specimen or per person. As such, the percentage of tests that were positive does not necessarily translate to the number of specimens or persons testing positive. Changes in testing eligibility went into effect on December 31, 2021, limiting access to testing and resulting in a change in the population being tested.

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

Severity

Figure 3. Confirmed deaths among COVID-19 cases by date of death: Ontario, March 1, 2020 to March 19, 2022



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

Data Source: CCM

Table 3. Confirmed cases of COVID-19 by severity: Ontario

	Cumulative case count as of March 19, 2022	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	12,332	1.1%
Deaths reported in ages: 19 and under	13	<0.1%
Deaths reported in ages: 20-39	129	<0.1%
Deaths reported in ages: 40-59	879	0.3%
Deaths reported in ages: 60-79	4,136	3.0%
Deaths reported in ages: 80 and over	7,174	14.6%
Ever in ICU	7,912	0.7%
Ever hospitalized	43,092	3.8%

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. Percentage of deaths reported for each age group is calculated using all cases in the age group as the denominator.

Data Source: CCM

Geography

Table 4. Summary of recent confirmed cases of COVID-19 by public health unit and region: Ontario

Public Health Unit Name	Change in cases March 18, 2022	Change in cases March 19, 2022	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	210	52	6,060	7,464.4
Thunder Bay District Health Unit	26	47	9,500	6,023.9
TOTAL NORTH WEST	236	99	15,560	6,513.4
Algoma Public Health	47	39	6,065	5,146.8
North Bay Parry Sound District Health Unit	21	13	4,279	3,309.2
Porcupine Health Unit	17	25	6,043	7,109.4
Public Health Sudbury & Districts	44	34	12,137	5,913.1
Timiskaming Health Unit	6	7	1,267	3,739.1
TOTAL NORTH EAST	135	118	29,791	5,214.7
Ottawa Public Health	101	74	64,839	6,215.8
Eastern Ontario Health Unit	13	14	13,974	6,473.7
Hastings Prince Edward Public Health	30	23	7,489	4,333.2
Kingston, Frontenac and Lennox & Addington Public Health	94	51	11,666	5,575.7
Leeds, Grenville & Lanark District Health Unit	18	13	7,114	3,953.4
Renfrew County and District Health Unit	15	7	3,610	3,328.0
TOTAL EASTERN	271	182	108,692	5,633.3

Public Health Unit Name	Change in cases March 18, 2022	Change in cases March 19, 2022	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	92	76	54,764	7,697.8
Haliburton, Kawartha, Pine Ridge District Health Unit	17	19	7,426	3,893.5
Peel Public Health	120	82	174,194	11,140.2
Peterborough Public Health	14	15	5,916	3,994.1
Simcoe Muskoka District Health Unit	123	81	37,342	6,177.2
York Region Public Health	105	82	100,327	8,358.8
TOTAL CENTRAL EAST	471	355	379,969	8,599.1
Toronto Public Health	378	380	284,416	9,517.3
TOTAL TORONTO	378	380	284,416	9,517.3
Chatham-Kent Public Health	10	10	7,135	6,692.0
Grey Bruce Health Unit	34	32	6,770	3,843.3
Huron Perth Public Health	20	25	6,015	4,113.0
Lambton Public Health	5	22	10,072	7,574.5
Middlesex-London Health Unit	65	60	33,066	6,475.8
Southwestern Public Health	28	27	11,615	5,305.9
Windsor-Essex County Health Unit	75	72	38,516	8,937.6
TOTAL SOUTH WEST	237	248	113,189	6,571.4
Brant County Health Unit	18	26	10,164	6,619.0
City of Hamilton Public Health Services	79	77	49,736	8,549.8
Haldimand-Norfolk Health Unit	20	8	7,318	6,097.9

Public Health Unit Name	Change in cases March 18, 2022	Change in cases March 19, 2022	Cumulative case count	Cumulative rate per 100,000 population
Halton Region Public Health	69	58	43,467	7,119.0
Niagara Region Public Health	66	60	35,375	7,343.4
Region of Waterloo Public Health and Emergency Services	55	34	41,434	6,846.0
Wellington-Dufferin-Guelph Public Health	43	35	19,090	6,118.7
TOTAL CENTRAL WEST	350	298	206,584	7,211.1
TOTAL ONTARIO	2,078	1,680	1,138,201	7,725.0

Notes: Health units with data corrections or updates could result in records being removed from totals, leading to negative or zero counts.

Data Source: CCM

Outbreaks

Table 5. 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 March 18, 2022	Change in outbreaks March 19, 2022	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	4	3	57	2,207
Retirement homes	4	1	43	1,503
Hospitals	0	4	21	1,175

Note: Ongoing outbreaks are those that are reported in CCM as 'Open' and without a 'Declared Over Date' recorded. The start of the outbreak is determined by the onset date of first case, or if missing the outbreak reported date, or else if that is also missing, then the outbreak created date.

Data Source: CCM

Technical Notes

Data Sources

- The data for this report were based on information successfully extracted from the Public Health Case and Contact Management Solution (CCM) for all PHUs by PHO as of **March 19, 2022 at 1 p.m.** for cases reported from May 1, 2021 onwards and as of **March 17, 2022 at 9 a.m.** for cases reported up to April 30, 2021.
- CCM is a dynamic disease reporting system, which allows ongoing updates to data previously entered. As a result, data extracted from CCM represent a snapshot at the time of extraction and may differ from previous or subsequent reports.
- Ontario population estimate data were sourced from Statistics Canada. Population estimates 2001-2020: Table 1 annual population estimates by age and sex for July 1, 2001 to 2020, health regions, Ontario [unpublished data table]. Ottawa, ON: Government of Canada; 2021 [received April 22, 2021].
- COVID-19 test data were based on information from The Provincial COVID-19 Diagnostics Network, reported by member microbiology laboratories.

Data Caveats

- Due to changes in the availability of testing, driven by increasing COVID-19 cases related to the Omicron variant, case counts in this report are an underestimate of the true number of individuals with COVID-19 in Ontario. As such, data should be interpreted with caution.
- The data only represent cases reported to public health units and recorded in CCM. 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.
- Data cleaning for older cases is incorporated on Mondays and Thursdays and may impact the case count published on Tuesdays and Fridays.
- Lags in CCM 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 Case Definition – Coronavirus Disease \(COVID-19\) document](#) are included in the report counts from CCM.
- Cases of confirmed reinfection, as defined in the provincial case definitions, are counted as unique investigations.
- Case classification information may be updated for individuals with a positive result issued from a point-of-care assays.
- 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.

- For surveillance purposes, a COVID-19 death is defined as a death resulting from a clinically compatible illness unless there is a clear alternative cause of death that cannot be related to COVID-19 (e.g., trauma, medically assisted death). There should be no period of complete recovery from COVID-19 between illness and reported death.
- Deaths are determined by using the Outcome and Type of Death fields in CCM. COVID-19 deaths are counted where the Outcome value is 'Fatal' and the Type of Death value is not 'DOPHS was unrelated to cause of death'.
 - COVID-19 deaths are placed in time using the 'Date of Death' field in CCM. If the date of death is missing, the outcome date field is used as a proxy.
- Resolved cases are determined only for COVID-19 cases that are not considered COVID-19 deaths. The following cases are classified as resolved:
 - Cases that are reported as 'recovered' in CCM based on local public health unit assessment
 - Cases that are not hospitalized and are 14 days past their symptom onset date or specimen collection date (where symptom onset date is not known)
 - 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
 - Cases that died with a Type of Death = "DOPHS was unrelated to cause of death". These are considered resolved for the purpose of COVID-19 surveillance and reporting
- Hospitalization includes all cases hospitalized (or that had their hospital stay extended) because of COVID-19. It includes cases that have been discharged from hospital as well as cases that are currently hospitalized. Includes Intensive Care Unit (ICU) cases but not emergency room visits. Hospitalizations were identified by a reported hospital admission date or reported 'Yes' for hospitalization/ICU
- 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 permanent health unit. This is equivalent to the diagnosing health unit (DHU) in iPHIS. 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-PHO (to signify a case that is not a resident of Ontario) have been excluded from the analyses.
- Male/Female information presented in this report are sourced from the Sex field in CCM and are intended to represent sex assigned at birth. On October 14, 2021 changes were made in CCM to enable reporting on the Sex field where these data are supplemented by archived Male/Female information previously entered in the Gender field.
- COVID-19 cases from CCM for which the Classification and/or Disposition was reported as ENTERED IN ERROR, DOES NOT MEET DEFINITION, IGNORE, DUPLICATE or any variation on these values have been excluded. The provincial case count for COVID-19 may include some duplicate records, if these records were not identified and resolved.

- Ongoing outbreaks are those that are reported in CCM as 'Open' and without a 'Declared Over Date' recorded. Closed outbreaks are 'Closed' or have a 'Declared Over Date' recorded in CCM or where the outbreak start date (determined by the onset date of first case, or if missing the reported date, or if missing the created date) is more than 5 months from the current date, even for outbreaks where the outbreak status value selected in CCM is 'OPEN'.
- '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, March 4, 2022 to March 16, 2022

Public Health Unit Name	Mar 4 to Mar 10	Mar 5 to Mar 11	Mar 6 to Mar 12	Mar 7 to Mar 13	Mar 8 to Mar 14	Mar 9 to Mar 15	Mar 10 to Mar 16	% change from Mar 4 – Mar 10 to Mar 10 – Mar 16
NORTH WEST								
Northwestern Health Unit	434.8	445.9	436.0	471.8	480.4	491.5	571.5	+31.4%
Thunder Bay District Health Unit	189.0	183.3	182.0	178.2	182.0	166.8	171.2	-9.4%
NORTH EAST								
Algoma Public Health	269.0	270.7	278.3	283.4	286.0	276.6	292.8	+8.8%
North Bay Parry Sound District Health Unit	126.8	122.2	129.1	123.0	117.5	114.5	106.7	-15.9%
Porcupine Health Unit	244.7	248.2	251.8	251.8	240.0	236.5	223.5	-8.7%
Public Health Sudbury & Districts	176.9	173.4	165.2	173.4	170.0	162.2	160.3	-9.4%
Timiskaming Health Unit	147.6	129.9	129.9	123.9	112.1	88.5	126.9	-14.0%
EASTERN								
Ottawa Public Health	74.1	71.1	71.6	69.2	62.7	58.0	63.4	-14.4%
Eastern Ontario Health Unit	51.9	54.7	55.6	56.1	53.7	59.8	62.1	+19.7%
Hastings Prince Edward Public Health	101.8	108.8	108.8	115.1	120.9	136.0	140.0	+37.5%

Public Health Unit Name	Mar 4 to Mar 10	Mar 5 to Mar 11	Mar 6 to Mar 12	Mar 7 to Mar 13	Mar 8 to Mar 14	Mar 9 to Mar 15	Mar 10 to Mar 16	% change from Mar 4 – Mar 10 to Mar 10 – Mar 16
Kingston, Frontenac and Lennox & Addington Public Health	238.0	236.1	240.4	260.0	240.4	255.7	277.7	+16.7%
Leeds, Grenville & Lanark District Health Unit	77.8	82.2	82.8	80.6	78.9	78.4	76.1	-2.2%
Renfrew County and District Health Unit	91.3	87.6	88.5	95.0	92.2	78.4	74.7	-18.2%
CENTRAL EAST								
Durham Region Health Department	63.7	66.6	64.7	65.6	67.5	63.8	63.8	+0.2%
Haliburton, Kawartha, Pine Ridge District Health Unit	69.7	69.7	66.6	62.9	61.3	58.2	52.4	-24.8%
Peel Public Health	33.3	33.6	32.4	32.3	31.6	31.1	31.2	-6.3%
Peterborough Public Health	77.0	73.6	72.2	79.7	79.7	85.1	79.7	+3.5%
Simcoe Muskoka District Health Unit	76.9	76.6	74.3	73.3	71.3	79.7	91.0	+18.3%
York Region Public Health	44.7	44.1	45.4	45.0	47.4	48.2	48.9	+9.4%
TORONTO								
Toronto Public Health	58.3	59.2	59.5	59.0	60.9	61.4	63.2	+8.4%
SOUTH WEST								
Chatham-Kent Public Health	77.8	77.8	81.6	76.0	65.7	71.3	77.8	0.0%
Grey Bruce Health Unit	109.0	110.7	110.7	114.1	112.4	102.8	101.1	-7.2%

Public Health Unit Name	Mar 4 to Mar 10	Mar 5 to Mar 11	Mar 6 to Mar 12	Mar 7 to Mar 13	Mar 8 to Mar 14	Mar 9 to Mar 15	Mar 10 to Mar 16	% change from Mar 4 – Mar 10 to Mar 10 – Mar 16
Huron Perth Public Health	58.8	58.8	73.8	78.0	82.7	73.2	78.6	+33.7%
Lambton Public Health	97.8	92.5	88.7	83.5	82.0	76.7	85.0	-13.1%
Middlesex-London Health Unit	96.4	100.9	106.9	102.2	105.2	94.4	95.2	-1.2%
Southwestern Public Health	74.9	73.5	75.8	72.6	69.0	62.6	69.0	-7.9%
Windsor-Essex County Health Unit	106.5	107.4	102.3	93.3	99.1	104.4	103.5	-2.8%
CENTRAL WEST								
Brant County Health Unit	64.5	75.5	78.8	80.8	75.5	67.7	67.7	+5.0%
City of Hamilton Public Health Services	89.7	88.0	87.8	88.0	87.8	89.6	87.7	-2.2%
Haldimand-Norfolk Health Unit	90.8	80.8	83.3	80.8	80.0	75.0	72.5	-20.2%
Halton Region Public Health	68.5	72.1	72.4	73.0	71.4	69.1	70.1	+2.3%
Niagara Region Public Health	99.6	90.1	88.4	88.4	83.7	78.9	80.3	-19.4%
Region of Waterloo Public Health and Emergency Services	58.8	60.5	61.3	58.3	59.6	55.0	60.8	+3.4%
Wellington-Dufferin-Guelph Public Health	70.2	69.9	66.3	68.0	66.3	70.8	73.4	+4.6%
TOTAL ONTARIO	76.9	76.9	77.0	76.8	76.4	75.4	78.0	+1.4%

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

Data Source: CCM

Table A2. Number of confirmed COVID-19 cases with a fatal outcome by date of death in the last 30 days: Ontario

Date of Death	Number of deaths
February 18, 2022	28
February 19, 2022	23
February 20, 2022	21
February 21, 2022	21
February 22, 2022	18
February 23, 2022	12
February 24, 2022	14
February 25, 2022	10
February 26, 2022	13
February 27, 2022	11
February 28, 2022	10
March 1, 2022	12
March 2, 2022	15
March 3, 2022	12
March 4, 2022	8
March 5, 2022	10
March 6, 2022	15
March 7, 2022	7
March 8, 2022	7
March 9, 2022	8
March 10, 2022	9
March 11, 2022	7

Date of Death	Number of deaths
March 12, 2022	6
March 13, 2022	4*
March 14, 2022	5*
March 15, 2022	10*
March 16, 2022	8*
March 17, 2022	3*
March 18, 2022	5*
March 19, 2022	1*

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

*Subject to reporting lags

Data Source: CCM

Citation

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