

Daily Epidemiologic Summary

COVID-19 in Ontario: January 15, 2020 to March 29, 2021

This report includes the most current information available from CCM as of March 29, 2021.

Please visit the interactive <u>Ontario COVID-19 Data Tool</u> 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 347,570 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
 - An increase of 2,336 confirmed cases (percent change of +11.6%)
 - An increase of 14 deaths (percent change of +40.0%)
 - An increase of 1,477 resolved cases (percent change of -3.1%)

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

	Change in cases March 28, 2021	Change in cases March 29, 2021	Percentage change March 29, 2021 compared to March 28, 2021	Cumulative case count as of March 29, 2021
Total number of cases	2,094	2,336	+11.6%	347,570
Number of deaths	10	14	+40.0%	7,351
Number resolved	1,524	1,477	-3.1%	320,409

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

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.

	Change in cases March 28, 2021	Change in cases March 29, 2021	Cumulative case count as of March 29, 2021
Gender: Male	1,084	1,180	171,851
Gender: Female	999	1,132	173,769
Ages: 19 and under	425	496	49,648
Ages: 20-39	731	789	127,306
Ages: 40-59	600	664	99,920
Ages: 60-79	293	328	49,242
Ages: 80 and over	43	55	21,372

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

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

Table 2. Summary of recent confirmed cases of COVID-19 in school aged children by agegroup, August 30, 2020 to March 29, 2021: Ontario

	Change in cases March 28, 2021	Change in cases March 29, 2021	Cumulative case count from August 30, 2020 to March 29, 2021
Ages: 4 to 8	73	95	8,774
Ages: 9 to 13	117	131	11,536
Ages: 14 to 17	98	115	11,547

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

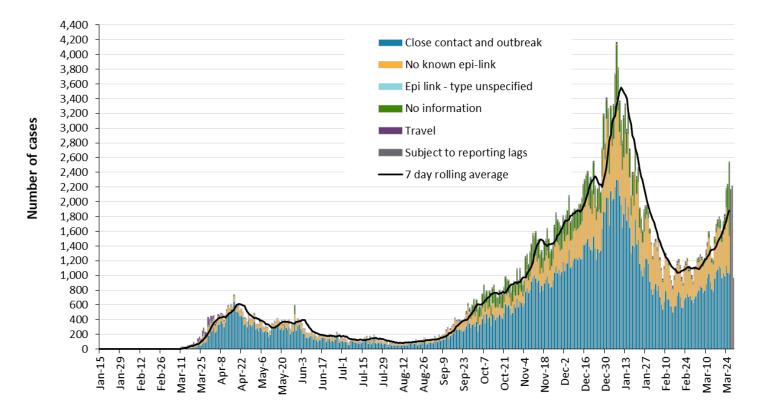
Long-term care home cases	Change in cases March 28, 2021	Change in cases March 29, 2021	Cumulative case count as of March 29, 2021
Residents	1	7	15,037
Health care workers	5	3	6,819
Deaths among residents	0	4	3,897
Deaths among health care workers	0	0	10

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

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.

Time

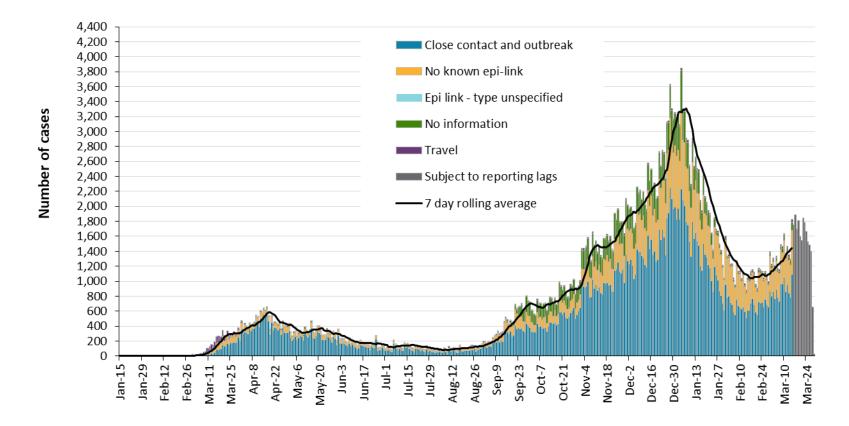
Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to March 29, 2021



Reported date

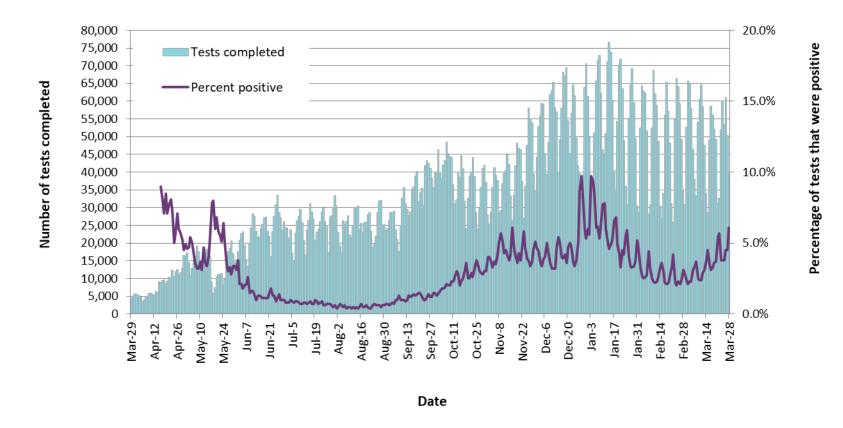
Data Source: CCM

Figure 2. Confirmed cases of COVID-19 by likely acquisition and approximation of symptom onset date: Ontario, January 15, 2020 to March 29, 2021



Episode date

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





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

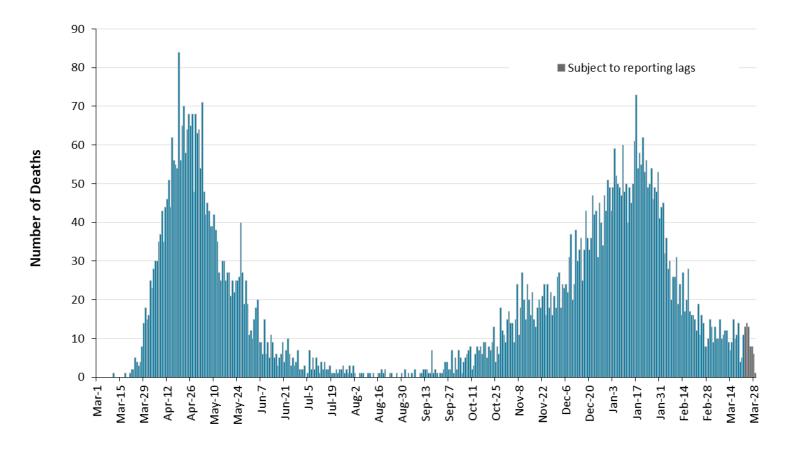


Figure 4. Confirmed deaths among COVID-19 cases by date of death: Ontario, March 1, 2020 to March 29, 2021

Date of Death

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

	Cumulative case count as of March 29, 2021	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	7,351	2.1%
Deaths reported in ages: 19 and under	2	<0.1%
Deaths reported in ages: 20-39	33	<0.1%
Deaths reported in ages: 40-59	313	0.3%
Deaths reported in ages: 60-79	2,071	4.2%
Deaths reported in ages: 80 and over	4,931	23.1%
Ever in ICU	2,973	0.9%
Ever hospitalized	16,911	4.9%

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.

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 March 28, 2021	Change in cases March 29, 2021	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	2	1	674	768.7
Thunder Bay District Health Unit	7	16	2,810	1,873.8
TOTAL NORTH WEST	9	17	3,484	1,466.1
Algoma Public Health	2	2	229	200.1
North Bay Parry Sound District Health Unit	1	0	287	221.2
Porcupine Health Unit	0	0	350	419.5
Public Health Sudbury & Districts	17	19	1,387	696.9
Timiskaming Health Unit	0	0	125	382.4
TOTAL NORTH EAST	20	21	2,378	425.1
Ottawa Public Health	132	144	17,133	1,624.5
Eastern Ontario Health Unit	37	23	3,214	1,539.9
Hastings Prince Edward Public Health	7	8	482	286.1
Kingston, Frontenac and Lennox & Addington Public Health	6	3	895	420.7
Leeds, Grenville & Lanark District Health Unit	18	5	1,238	714.9
Renfrew County and District Health Unit	5	1	432	397.7
TOTAL EASTERN	205	184	23,394	1,214.4

Public Health Unit Name	Change in cases March 28, 2021	Change in cases March 29, 2021	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	104	194	14,009	1,966.4
Haliburton, Kawartha, Pine Ridge District Health Unit	3	7	1,139	602.8
Peel Public Health	368	434	69,143	4,305.4
Peterborough Public Health	7	3	854	577.1
Simcoe Muskoka District Health Unit	58	39	7,698	1,283.9
York Region Public Health	277	229	33,269	2,714.1
TOTAL CENTRAL EAST	817	906	126,112	2,814.6
Toronto Public Health	618	727	108,329	3,471.7
TOTAL TORONTO	618	727	108,329	3,471.7
Chatham-Kent Public Health	11	12	1,605	1,509.6
Grey Bruce Health Unit	8	4	785	462.1
Huron Perth Public Health	1	2	1,432	1,024.6
Lambton Public Health	23	20	2,819	2,152.5
Middlesex-London Health Unit	69	38	6,990	1,377.3
Southwestern Public Health	15	11	2,802	1,324.8
Windsor-Essex County Health Unit	38	28	13,800	3,248.4
TOTAL SOUTH WEST	165	115	30,233	1,788.1
Brant County Health Unit	13	25	2,173	1,400.1
City of Hamilton Public Health Services	61	123	12,693	2,143.5

Public Health Unit Name	Change in cases March 28, 2021	Change in cases March 29, 2021	Cumulative case count	Cumulative rate per 100,000 population
Haldimand-Norfolk Health Unit	11	10	1,594	1,397.3
Halton Region Public Health	74	91	10,506	1,697.0
Niagara Region Public Health	33	63	9,586	2,028.8
Region of Waterloo Public Health and Emergency Services	52	31	11,856	2,028.9
Wellington-Dufferin-Guelph Public Health	16	23	5,232	1,677.4
TOTAL CENTRAL WEST	260	366	53,640	1,882.6
TOTAL ONTARIO	2,094	2,336	347,570	2,338.3

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

Outbreaks

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

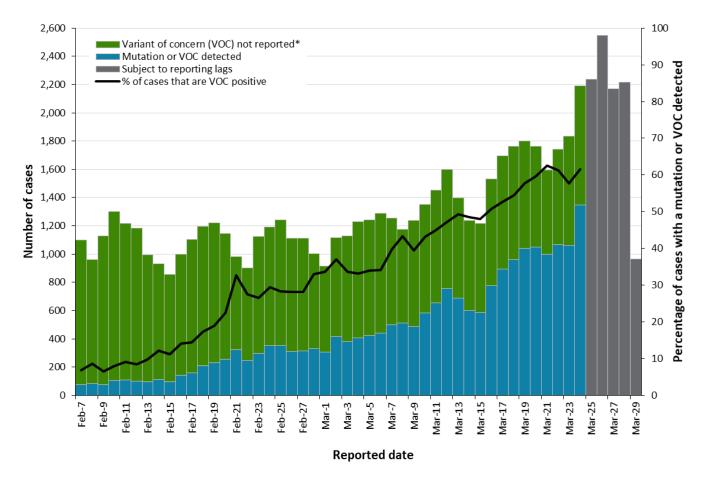
Institution type	Change in outbreaks March 28, 2021	Change in outbreaks March 29, 2021	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	1	4	57	1,369
Retirement homes	4	1	43	821
Hospitals	0	1	33	457

Note: Ongoing outbreaks include all outbreaks that are 'Open' in CCM without a 'Declared Over Date' recorded, or where the outbreak started more than five months ago, even for outbreaks where the Outbreak Status value selected in CCM is 'OPEN'. 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

Variant COVID-19 Cases

The laboratory detection of a variant of concern (VOC) is a multi-step process. Samples that test positive for SARS-CoV-2 and have a cycle threshold (Ct) value ≤ 35 can be tested for mutations common to variants of concern. If positive for the mutation of interest these samples may then undergo genomic analyses to identify the VOC. VOC lineages may still be confirmed using genomic analysis despite specific S gene mutation(s) being documented as 'unable to complete' due to poor sequence quality at the genome position.

Figure 5. Number of confirmed COVID-19 cases and percent positive for mutations or VOCs: Ontario, February 7, 2021 to March 29, 2021



Note: Data used to calculate the number of cases tested for mutations common to VOCs or lineages using genomic analyses are obtained using information from the Laboratory object in CCM in addition to the data from the Investigation Subtype field. Therefore, comparisons to counts using only information from the Investigation Subtype field may not align. The percent of cases due to a VOC may be higher than described in this report. While all confirmed COVID-19 cases are included in the denominator, not all cases were able to be tested for VOCs. *VOC not reported category includes cases where mutations common to VOCs or lineages were not detected or where testing results were not available/not completed. **Data Source**: CCM

Variant	Change in casesChange in casesMarch 28, 2021March 29, 2021		Cumulative case count up to March 29, 2021
Lineage B.1.1.7	124	51	1,800
Lineage B.1.351	0	6	69
Lineage P.1	15	8	90
Mutation or non-VOC lineage detected*	585	1,210	20,117

Table 7. Summary of confirmed COVID-19 cases with a mutation or VOC detected: Ontario

Note: Interpret the VOC and mutation trends with caution due to the varying time required to complete VOC testing and/or genomic analysis following the initial positive test for SARS-CoV-2. Due to the nature of the genomic analysis, test results may be completed in batches. 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 for calculating the change in cases and the cumulative case counts uses data from the Investigation Subtype field only. Changes to the VOC testing algorithm may impact counts and trends. Further details can be found in the <u>data</u> <u>caveats</u> section.

*Includes all confirmed COVID-19 cases with a lineage or mutation reported in the Investigation Subtype field, excluding variants of concern B.1.1.7, B.1.351, and P.1 lineages. If a VOC is identified through genomic analysis, the change in cases and/or cumulative case counts for mutations will fluctuate as the case is moved to one of the listed lineages.

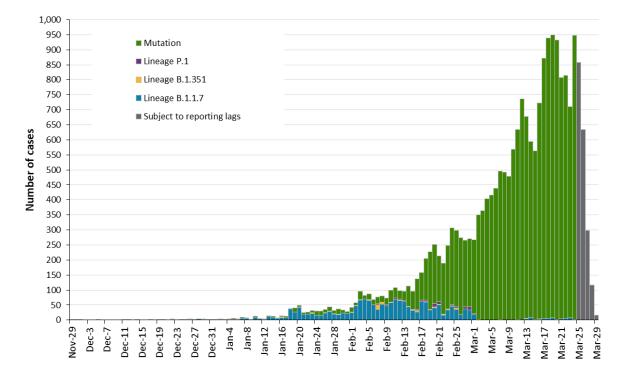


Figure 6. Confirmed COVID-19 cases with a mutation or VOC detected by public health unit reported date: Ontario, November 29, 2020 to March 29, 2021

Reported date

Note: Reported date is based on the date the case was reported, not the date that the VOC or mutation was identified. Further details on testing for variants of concern can be found in the <u>technical notes</u>. Interpret the VOC and mutation trends with caution due to the varying time required to complete testing and/or genomic analysis following the initial positive test for SARS-CoV-2. Data for calculating the change in cases and the cumulative case count uses data from the Investigation Subtype field only. Data for cases with a B.1.1.7, B.1.351, and P.1 lineage detected are determined using the Investigation Subtype field only. Mutation or non-VOC lineage detected includes all confirmed COVID-19 cases with a lineage or mutation detected reported from the Investigation Subtype field excluding B.1.1.7, B.1.351, and P.1 lineages. Changes to the VOC testing algorithm may impact counts and trends. Further details can be found in the <u>data</u> <u>caveats</u> section.

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 29, 2021 at 1 p.m**.
- 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 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. 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 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 <u>MOH Case Definition –</u> <u>Coronavirus Disease (COVID-19) document</u>
- 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.
- 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-PHO (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. If no epidemiologic link is identified in those fields the risk factor fields are examined to determine whether a case travelled, was associated with a confirmed 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. 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.
- 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 include all outbreaks that are 'Open' in CCM without a 'Declared Over Date' recorded, or where the outbreak started more than five months ago, even for outbreaks where the Outbreak Status value selected in CCM is 'OPEN'. 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.
- '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.
- PANGO lineage B.1.1.7: This lineage was first detected in England in September, 2020. Early evidence suggests that the N501Y mutation may increase SARS-CoV-2 transmissibility. The PANGO lineage B.1.1.7 is assigned to genome sequences with at least 5 of the 17 defining B.1.1.7 SNPs.
- PANGO lineage B.1.351 (also known as 501Y.V2): This lineage was first detected October, 2020 in South Africa and has several mutations of concern, including spike (S) gene: N501Y, K417N, and E484K. Early evidence suggests that these mutations may increase SARS-CoV-2 transmissibility and decrease vaccine efficacy. The PANGO lineage B.1.351 will be assigned to genome sequences at least 5 of the 9 defining B.1.351 SNPs.
- PANGO lineage P.1 (also known as 501Y.V3): This lineage was first detected January, 2021 in Brazil and has several mutations of concern, including spike (S) gene N501Y, K417T, and E484K. Early evidence suggests that these mutations may increase SARS-CoV-2 transmissibility and decrease vaccine efficacy. The PANGO lineage P.1 is assigned to genome sequences with more than 10 of the 17 defining P.1 SNPs.

- Public Health Ontario conducts testing and genomic analyses for SARS-CoV-2 positive specimens using the criteria outlined here: <u>https://www.publichealthontario.ca/en/laboratory-</u> <u>services/test-information-index/covid-19-voc</u>
- Changes to the VOC testing algorithm may occur over time and trends should be interpreted with caution. Since February 3, 2021 all PCR positive SARS-Co-V-2 specimens with CT values ≤ 35 are tested for a N501Y mutation. Starting March 22, 2021, these specimens are tested for the E484K mutation as well. Specimens that are positive for the N501Y mutation only are not being forwarded for further genomic analysis. Specimens that are E484K positive (with or without N501Y) are forwarded for genomic analysis.
- The laboratory detection of a variant of concern is a multi-step process. Samples that test
 positive for SARS-CoV-2 and have a cycle threshold (Ct) value ≤ 35 can be tested for mutations
 common to variants of concern. If positive for the mutation of interest these samples may then
 undergo genomic analyses to identify the VOC. VOC lineages may still be confirmed using
 genomic analysis despite specific S gene mutation(s) being documented as 'unable to complete'
 due to poor sequence quality at the genome position.
- VOC testing data are analyzed for cases with a reported date on or after February 07, 2021. VOC testing data are based on CCM information reported within the laboratory object for select Logical Observation Identifiers Names and Codes (LOINC) and supplemented with information from the Investigation Subtype field. A confirmed Case Investigation is assigned a VOC test value (e.g., VOC test detected, VOC test not detected) based on the following hierarchy:
 - If multiple laboratory results are identified, a VOC test value is assigned based on the following hierarchy: Detected > Not Detected > Unable to complete
 - If a laboratory result is 'Not Detected' or 'Unable to complete', but data on the Investigation Subtype field is listed as a lineage or mutation common to a VOC, then the VOC test value is set to 'Detected'
- If a VOC is identified through genomic analysis cases initially classified as a mutation may be updated and moved to the appropriate lineage (B.1.1.7, B.1.351 and P.1)
- LOINCs are a set of internationally used result description codes. In the absence of a standard LOINC, Ontario Health can create local result codes, which are identified with an 'XON' prefix.
 LOINCs incorporate details of the result value (e.g. test method, target detected - such as IgG, DNA, isolate etc.) and are unique to each result.
- VOC testing data in this report are assigned on a per case basis. Multiple laboratory results may be associated to a single case investigation, but for analysis purposes are only counted once.
 - The percent of cases that test VOC positive is calculated by taking the number of VOC test positive, divided by the total number of confirmed COVID-19 cases for a given reported date.
- The VOC percent positive may be higher than described in this report. While all confirmed COVID-19 cases are included in the denominator, not all cases were able to be tested for VOCs. As testing algorithms change, the VOC percent positivity may not be reflective of the exact number of COVID-19 cases due to VOCs

• Only CCM case investigations with a CONFIRMED classification have their laboratory records with VOC testing information included in the percent positivity calculations

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 14 to March 26, 2021

Public Health Unit Name	Mar 14 to Mar 20	Mar 15 to Mar 21	Mar 16 to Mar 22	Mar 17 to Mar 23	Mar 18 to Mar 24	Mar 19 to Mar 25	Mar 20 to Mar 26	% change from Mar 14- Mar 20 to Mar 20- Mar 26
NORTH WEST								
Northwestern Health Unit	65.0	60.5	55.9	52.5	49.0	46.8	45.6	-29.8%
Thunder Bay District Health Unit	178.0	150.0	142.7	134.7	123.4	114.0	108.7	-38.9%
NORTH EAST								
Algoma Public Health	14.9	12.2	9.6	6.1	4.4	5.2	3.5	-76.5%
North Bay Parry Sound District Health Unit	11.6	11.6	10.8	10.8	10.8	8.5	2.3	-80.2%
Porcupine Health Unit	2.4	2.4	2.4	2.4	3.6	4.8	4.8	+100.0%
Public Health Sudbury & Districts	94.0	95.0	100.0	96.5	110.5	100.5	97.0	+3.2%
Timiskaming Health Unit	18.4	24.5	30.6	39.8	42.8	42.8	39.8	+116.3%
EASTERN								
Ottawa Public Health	52.5	54.7	54.3	57.1	59.2	65.7	65.7	+25.1%
Eastern Ontario Health Unit	61.3	65.2	76.7	81.5	87.2	87.7	89.6	+46.2%
Hastings Prince Edward Public Health	2.4	2.4	4.2	4.7	5.9	8.3	11.9	+395.8%
Kingston, Frontenac and Lennox & Addington Public Health	39.0	40.4	39.5	38.1	31.0	28.7	24.4	-37.4%

Public Health Unit Name	Mar 14 to Mar 20	Mar 15 to Mar 21	Mar 16 to Mar 22	Mar 17 to Mar 23	Mar 18 to Mar 24	Mar 19 to Mar 25	Mar 20 to Mar 26	% change from Mar 14- Mar 20 to Mar 20- Mar 26
Leeds, Grenville & Lanark District Health Unit	81.4	78.5	83.2	78.5	78.0	76.2	62.4	-23.3%
Renfrew County and District Health Unit	9.2	12.0	12.0	14.7	20.3	23.9	24.9	+170.7%
CENTRAL EAST								
Durham Region Health Department	68.2	74.3	82.5	88.0	92.1	96.2	106.8	+56.6%
Haliburton, Kawartha, Pine Ridge District Health Unit	13.2	13.8	12.7	11.6	10.6	9.5	11.6	-12.1%
Peel Public Health	127.9	134.9	141.4	146.3	148.8	152.9	160.5	+25.5%
Peterborough Public Health	34.5	32.4	32.4	28.4	27.0	29.7	23.7	-31.3%
Simcoe Muskoka District Health Unit	43.4	47.2	49.0	49.0	48.4	49.7	51.0	+17.5%
York Region Public Health	86.1	88.8	96.3	96.3	101.0	106.1	115.4	+34.0%
TORONTO								
Toronto Public Health	102.9	107.4	113.8	119.8	127.8	134.8	145.5	+41.4%
SOUTH WEST								
Chatham-Kent Public Health	88.4	92.2	86.5	90.3	69.6	60.2	65.8	-25.6%
Grey Bruce Health Unit	16.5	18.2	17.7	18.2	23.0	24.1	26.5	+60.6%
Huron Perth Public Health	8.6	8.6	8.6	7.2	5.7	9.3	7.9	-8.1%
Lambton Public Health	161.1	164.9	164.2	148.1	161.9	147.4	151.2	-6.1%
Middlesex-London Health Unit	31.9	34.9	34.5	36.8	42.0	46.5	51.6	+61.8%

Public Health Unit Name	Mar 14 to Mar 20	Mar 15 to Mar 21	Mar 16 to Mar 22	Mar 17 to Mar 23	Mar 18 to Mar 24	Mar 19 to Mar 25	Mar 20 to Mar 26	% change from Mar 14- Mar 20 to Mar 20- Mar 26
Southwestern Public Health	35.9	34.0	33.6	32.6	34.5	36.4	38.3	+6.7%
Windsor-Essex County Health Unit	45.4	44.3	43.3	41.9	39.3	37.2	42.6	-6.2%
CENTRAL WEST								
Brant County Health Unit	55.4	47.7	39.9	38.7	45.7	50.3	45.1	-18.6%
City of Hamilton Public Health Services	103.5	104.9	109.4	110.8	116.4	117.5	120.7	+16.6%
Haldimand-Norfolk Health Unit	30.7	33.3	43.0	46.5	52.6	54.3	60.5	+97.1%
Halton Region Public Health	46.8	47.5	51.5	52.7	54.0	57.2	55.4	+18.4%
Niagara Region Public Health	54.2	54.2	51.2	53.1	53.1	58.0	64.6	+19.2%
Region of Waterloo Public Health and Emergency Services	39.5	38.8	39.5	37.8	39.7	39.7	46.4	+17.5%
Wellington-Dufferin- Guelph Public Health	34.9	36.9	39.8	39.1	38.8	39.1	39.8	+14.0%
TOTAL ONTARIO	74.1	76.5	80.0	82.0	85.4	88.6	93.6	+26.3%

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. Summary of confirmed COVID-19 cases with a mutation or VOC by public health unit: Ontario as of March 29, 2021

Public Health Unit Name	Cumulative count for Lineage B.1.1.7	Cumulative count for Lineage B.1.351	Cumulative count for Lineage P.1	Cumulative count for mutation or non-VOC lineage detected
Algoma Public Health	0	0	0	1
Brant County Health Unit	1	0	0	68
Chatham-Kent Public Health	4	0	0	41
City of Hamilton Public Health Services	12	0	0	780
Durham Region Health Department	71	0	3	1,126
Eastern Ontario Health Unit	0	1	0	219
Grey Bruce Health Unit	0	0	0	21
Haldimand-Norfolk Health Unit	4	3	0	42
Haliburton, Kawartha, Pine Ridge District Health Unit	5	0	0	48
Halton Region Public Health	41	0	1	567
Hastings Prince Edward Public Health	0	0	0	17
Huron Perth Public Health	0	0	0	10
Kingston, Frontenac and Lennox & Addington Public Health	1	0	0	78
Lambton Public Health	0	0	0	92
Leeds, Grenville & Lanark District Health Unit	0	0	0	42

Public Health Unit Name	Cumulative count for Lineage B.1.1.7	Cumulative count for Lineage B.1.351	Cumulative count for Lineage P.1	Cumulative count for mutation or non-VOC lineage detected
Middlesex-London Health Unit	6	0	0	152
Niagara Region Public Health	9	0	0	275
North Bay Parry Sound District Health Unit	5	27	0	22
Northwestern Health Unit	1	0	0	6
Ottawa Public Health	23	5	0	561
Peel Public Health	383	10	18	3,088
Peterborough Public Health	1	0	0	185
Porcupine Health Unit	0	2	0	3
Public Health Sudbury & Districts	5	0	0	395
Region of Waterloo Public Health and Emergency Services	27	0	0	394
Renfrew County and District Health Unit	0	0	0	4
Simcoe Muskoka District Health Unit	342	1	16	767
Southwestern Public Health	5	0	0	62
Thunder Bay District Health Unit	0	0	0	4
Timiskaming Health Unit	12	1	0	2
Toronto Public Health	421	17	38	8,242

Public Health Unit Name	Cumulative count for Lineage B.1.1.7	Cumulative count for Lineage B.1.351	Cumulative count for Lineage P.1	Cumulative count for mutation or non-VOC lineage detected
Wellington-Dufferin-Guelph Public Health	7	0	0	204
Windsor-Essex County Health Unit	4	0	0	72
York Region Public Health	410	2	14	2,527
TOTAL ONTARIO	1,800	69	90	20,117

Note: Interpret the VOC and mutation trends with caution due to the varying time required to complete VOC testing and/or genomic analysis following the initial positive test for SARS-CoV-2. Due to the nature of the genomic analysis, test results may be completed in batches. 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 for calculating the change in cases and the cumulative case count uses data from the Investigation Subtype field only. Changes to the VOC testing algorithm may impact counts and trends. Further details can be found in the <u>data</u> <u>caveats</u> section.

Mutation or non-VOC lineage detected includes all confirmed COVID-19 cases with a lineage or mutation detected reported in the Investigation subtype field excluding B.1.1.7, B.1.351, and P.1 lineages. If a VOC is identified through genomic analysis, the change in cases and/or cumulative case counts for mutations will fluctuate as the case is moved to one of the listed lineages.

Table A3. Weekly percent positivity for cases tested for mutations or VOCs over recent rolling7-day periods, by reported date and public health unit: Ontario, March 12 to March 24, 2021

Public Health Unit Name	March 12 to March 18	March 13 to March 19	March 14 to March 20	March 15 to March 21	March 16 to March 22	March 17 to March 23	March 18 to March 24
Algoma Public Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brant County Health Unit	19.4	18.4	23.3	25.7	32.3	30.0	32.4
Chatham-Kent Public Health	18.8	19.5	23.4	28.6	31.5	38.5	39.2
City of Hamilton Public Health Services	38.1	39.2	42.3	43.8	44.4	44.8	48.3
Durham Region Health Department	67.9	67.8	69.1	69.6	70.6	71.5	71.5
Eastern Ontario Health Unit	50.9	52.9	55.5	56.6	62.5	68.8	69.2
Grey Bruce Health Unit	33.3	25.0	35.7	35.5	36.7	38.7	35.9
Haldimand-Norfolk Health Unit	53.2	55.0	51.4	42.1	40.8	43.4	48.3
Haliburton, Kawartha, Pine Ridge District Health Unit	51.9	50.0	48.0	50.0	45.8	45.5	65.0
Halton Region Public Health	39.6	41.7	43.4	46.6	49.8	52.8	55.4
Hastings Prince Edward Public Health	60.0	50.0	50.0	50.0	28.6	25.0	10.0
Huron Perth Public Health	17.6	22.2	16.7	16.7	16.7	10.0	12.5
Kingston, Frontenac and Lennox & Addington Public Health	41.4	38.4	38.6	38.4	38.1	38.3	43.9
Lambton Public Health	17.2	19.0	18.5	19.9	20.5	22.7	24.5

Public Health Unit Name	March 12 to March 18	March 13 to March 19	March 14 to March 20	March 15 to March 21	March 16 to March 22	March 17 to March 23	March 18 to March 24
Leeds, Grenville & Lanark District Health Unit	12.8	10.0	10.6	11.0	11.1	10.3	11.1
Middlesex-London Health Unit	13.3	12.3	14.8	18.6	20.0	23.5	32.9
Niagara Region Public Health	34.2	33.7	36.7	35.9	34.7	31.1	27.5
North Bay Parry Sound District Health Unit	71.4	73.3	73.3	73.3	78.6	78.6	78.6
Northwestern Health Unit	0.0	0.0	1.8	1.9	2.0	2.2	2.3
Ottawa Public Health	32.1	36.8	39.0	42.8	44.3	44.0	44.4
Peel Public Health	55.0	56.7	57.2	58.8	58.6	58.6	59.5
Peterborough Public Health	83.3	85.4	86.3	85.4	85.4	88.1	90.0
Porcupine Health Unit	0.0	0.0	0.0	0.0	0.0	0.0	33.3
Public Health Sudbury & Districts	56.2	56.6	61.5	61.4	59.3	59.4	59.5
Region of Waterloo Public Health and Emergency Services	32.9	35.2	36.4	36.1	38.5	39.4	35.8
Renfrew County and District Health Unit	12.5	10.0	10.0	15.4	15.4	31.3	36.4
Simcoe Muskoka District Health Unit	62.2	63.7	65.4	66.1	68.0	68.4	70.0
Southwestern Public Health	41.0	39.4	36.8	36.1	33.8	34.8	26.0
Thunder Bay District Health Unit	0.3	0.4	0.4	0.4	0.5	1.0	1.1

Public Health Unit Name	March 12 to March 18	March 13 to March 19	March 14 to March 20	March 15 to March 21	March 16 to March 22	March 17 to March 23	March 18 to March 24
Timiskaming Health Unit	80.0	71.4	83.3	87.5	90.0	92.3	92.9
Toronto Public Health	66.3	68.4	70.0	71.1	72.7	73.4	74.3
Wellington-Dufferin- Guelph Public Health	38.2	40.0	41.3	43.5	46.0	48.4	45.5
Windsor-Essex County Health Unit	5.9	6.2	7.3	8.5	8.7	8.4	8.4
York Region Public Health	59.2	62.0	63.2	64.4	66.1	65.3	66.4
TOTAL ONTARIO	50.4	52.1	53.7	55.5	57.0	57.9	59.3

Note: Data for calculating the number of cases tested for mutations common to VOCs or lineages using genomic analyses are obtained using information from the Laboratory object in CCM in addition to the data from the Investigation subtype field. Therefore, comparisons to counts using only information from the Investigation Subtype field may not align. The percent of cases due to a VOC may be higher than described in this report. While all confirmed COVID-19 cases are included in the denominator, not all cases were able to be tested for VOCs. Percent positivity is based on the sum of the daily cases that test positive divided by the number of cases reported during the date ranges specified in each column. **Data Source:** CCM.

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.

The application and use of this document is the responsibility of the user. PHO assumes no liability resulting from any such application or use.

This document may be reproduced without permission for non-commercial purposes only and provided that appropriate credit is given to PHO. No changes and/or modifications may be made to this document without express written permission from PHO.

Citation

Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic summary: COVID-19 in Ontario – January 15, 2020 to March 29, 2021. Toronto, ON: Queen's Printer for Ontario; 2021.

For Further Information

For more information, email <u>cd@oahpp.ca</u>.

Public Health Ontario

Public Health Ontario is an agency of the Government of Ontario dedicated to protecting and promoting the health of all Ontarians and reducing inequities in health. Public Health Ontario links public health practitioners, front-line health workers and researchers to the best scientific intelligence and knowledge from around the world.

For more information about PHO, visit publichealthontario.ca.

