

### Daily Epidemiologic Summary

## COVID-19 in Ontario: January 15, 2020 to April 10, 2021

This report includes the most current information available from CCM as of **April 10, 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 386,608 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
  - An increase of 4,456 confirmed cases (percent change of +16.9%)
  - An increase of 21 deaths (percent change of +10.5%)
  - An increase of 2,617 resolved cases (percent change of +8.1%)

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 April 9, 2021	Change in cases April 10, 2021	Percentage change April 10, 2021 compared to April 9, 2021	Cumulative case count as of April 10, 2021
Total number of cases	3,813	4,456	+16.9%	386,608
Number of deaths	19	21	+10.5%	7,552
Number resolved	2,422	2,617	+8.1%	346,239

#### 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 April 9, 2021	Change in cases April 10, 2021	Cumulative case count as of April 10, 2021
Gender: Male	1,887	2,288	191,560
Gender: Female	1,909	2,133	192,801
Ages: 19 and under	726	782	57,238
Ages: 20-39	1,444	1,711	141,931
Ages: 40-59	1,080	1,281	111,069
Ages: 60-79	489	597	54,129
Ages: 80 and over	73	80	22,151

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 age group, August 30, 2020 to April 10, 2021: Ontario

	Change in cases April 9, 2021	Change in cases April 10, 2021	Cumulative case count from August 30, 2020 to April 10, 2021
Ages: 4 to 8	127	168	10,268
Ages: 9 to 13	175	190	13,419
Ages: 14 to 17	189	185	13,295

**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

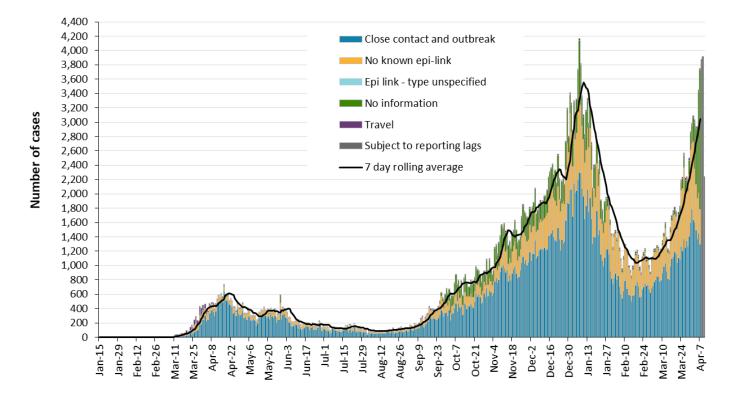
Long-term care home cases	Change in cases April 9, 2021	Change in cases April 10, 2021	Cumulative case count as of April 10, 2021
Residents	1	1	15,075
Health care workers	-3	8	6,866
Deaths among residents	2	0	3,907
Deaths among health care workers	0	0	10

#### 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.

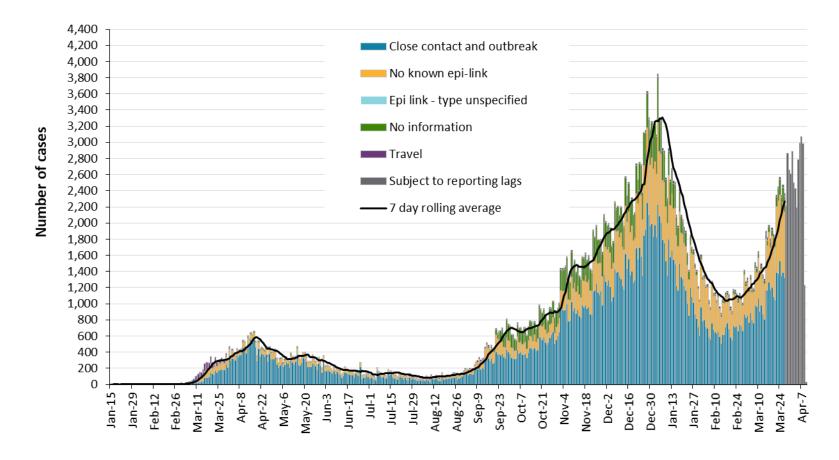
#### Time

Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to April 10, 2021



**Reported date** 

Figure 2. Confirmed cases of COVID-19 by likely acquisition and approximation of symptom onset date: Ontario, January 15, 2020 to April 10, 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

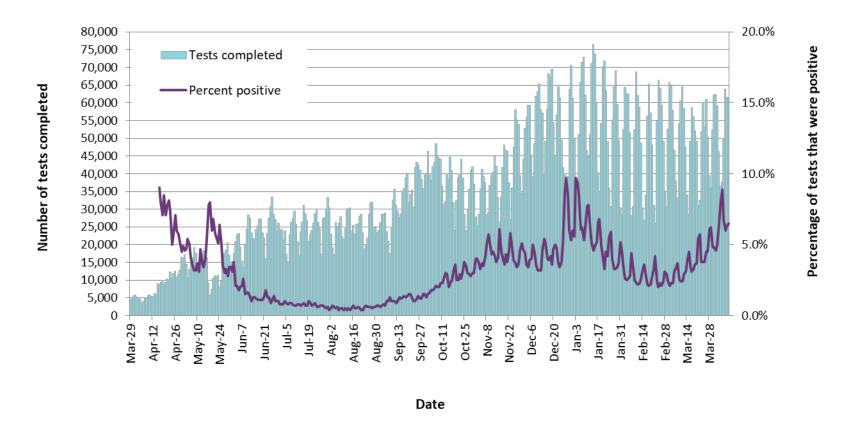


Figure 3. Number of COVID-19 tests completed and percent positivity: Ontario, March 29, 2020 to April 9, 2021

**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

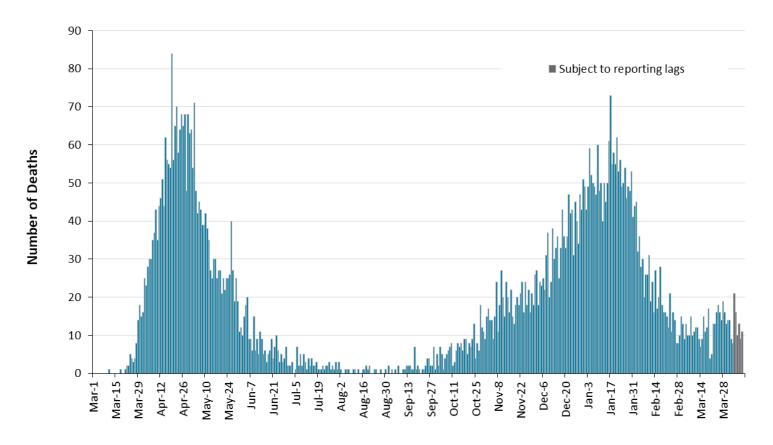


Figure 4. Confirmed deaths among COVID-19 cases by date of death: Ontario, March 1, 2020 to April 10, 2021

Date of Death

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

	Cumulative case count as of April 10, 2021	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	7,552	2.0%
Deaths reported in ages: 19 and under	2	<0.1%
Deaths reported in ages: 20-39	36	<0.1%
Deaths reported in ages: 40-59	327	0.3%
Deaths reported in ages: 60-79	2,160	4.0%
Deaths reported in ages: 80 and over	5,026	22.7%
Ever in ICU	3,252	0.8%
Ever hospitalized	18,426	4.8%

**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. **Data Source**: CCM

# 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 April 9, 2021	Change in cases April 10, 2021	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	12	13	754	860.0
Thunder Bay District Health Unit	20	7	2,963	1,975.9
TOTAL NORTH WEST	32	20	3,717	1,564.2
Algoma Public Health	5	9	268	234.2
North Bay Parry Sound District Health Unit	4	0	310	238.9
Porcupine Health Unit	12	3	407	487.8
Public Health Sudbury & Districts	30	22	1,663	835.6
Timiskaming Health Unit	-1	0	129	394.6
TOTAL NORTH EAST	50	34	2,777	496.5
Ottawa Public Health	289	377	19,674	1,865.4
Eastern Ontario Health Unit	23	53	3,636	1,742.1
Hastings Prince Edward Public Health	18	11	704	417.8
Kingston, Frontenac and Lennox & Addington Public Health	17	23	1,045	491.3
Leeds, Grenville & Lanark District Health Unit	12	22	1,393	804.4
Renfrew County and District Health Unit	9	2	485	446.5
TOTAL EASTERN	368	488	26,937	1,398.3

Public Health Unit Name	Change in cases April 9, 2021	Change in cases April 10, 2021	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	281	329	16,197	2,273.6
Haliburton, Kawartha, Pine Ridge District Health Unit	27	17	1,320	698.6
Peel Public Health	669	860	76,307	4,751.5
Peterborough Public Health	17	16	985	665.6
Simcoe Muskoka District Health Unit	113	101	8,649	1,442.5
York Region Public Health	442	444	37,590	3,066.6
TOTAL CENTRAL EAST	1,549	1,767	141,048	3,147.9
Toronto Public Health	973	1,353	120,143	3,850.3
TOTAL TORONTO	973	1,353	120,143	3,850.3
Chatham-Kent Public Health	6	6	1,685	1,584.9
Grey Bruce Health Unit	7	12	893	525.7
Huron Perth Public Health	6	9	1,490	1,066.1
Lambton Public Health	19	24	3,030	2,313.6
Middlesex-London Health Unit	141	159	8,374	1,650.0
Southwestern Public Health	18	18	2,995	1,416.1
Windsor-Essex County Health Unit	37	34	14,334	3,374.1
TOTAL SOUTH WEST	234	262	32,801	1,940.0
Brant County Health Unit	27	35	2,461	1,585.7
City of Hamilton Public Health Services	146	116	14,082	2,378.1

Public Health Unit Name	Change in cases April 9, 2021	Change in cases April 10, 2021	Cumulative case count	Cumulative rate per 100,000 population
Haldimand-Norfolk Health Unit	28	19	1,764	1,546.3
Halton Region Public Health	112	118	11,726	1,894.1
Niagara Region Public Health	120	120	10,722	2,269.3
Region of Waterloo Public Health and Emergency Services	76	63	12,558	2,149.0
Wellington-Dufferin-Guelph Public Health	98	61	5,872	1,882.6
TOTAL CENTRAL WEST	607	532	59,185	2,077.2
TOTAL ONTARIO	3,813	4,456	386,608	2,600.9

**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

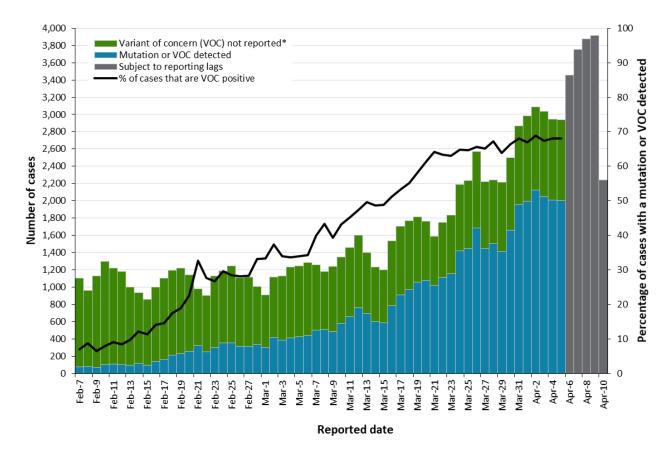
Institution type	Change in outbreaks April 9, 2021	Change in outbreaks April 10, 2021	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	-4	1	49	1,399
Retirement homes	-4	-2	29	832
Hospitals	1	3	41	486

**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 April 10, 2021



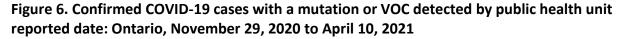
Note: Data used to calculate the number of cases tested for mutations common to VOCs or lineages using genomic analyses are obtained using information from the Laboratory object in CCM in addition to the data from the Investigation Subtype field. Therefore, comparisons to counts using only information 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.

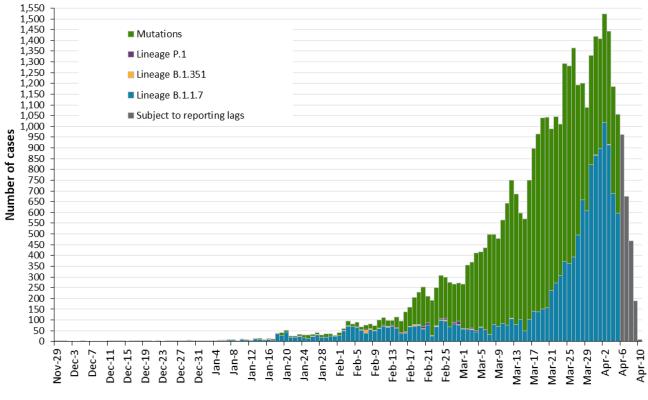
	Change in cases April 9, 2021	Change in cases April 10, 2021	Cumulative case count up to April 10, 2021
Variant of Concern			
Lineage B.1.1.7*	1,721	1,174	14,387
Lineage B.1.351	0	2	78
Lineage P.1	1	0	134
Mutations			
N501Y and E484K	119	174	1,997
N501Y (E484K unknown)**	317	267	22,002
E484K (N501Y negative)	51	74	523
E484K (N501Y unknown)	6	10	247

#### 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 where lineage B.1.1.7 was identified by genomic analysis and those presumed to be B.1.1.7 based on positive N501Y and negative E484K mutation in the Investigation Subtype field \*\*The category 'N501Y (E484K unknown)' mainly consists of results from before the introduction of the E484K test. Counts will shift from this category into a VOC lineage category as E484K tests or genomic analysis are completed.





**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. Changes to the VOC testing algorithm may impact counts and trends. Further details can be found in the <u>data caveats</u> section.

\*Includes all confirmed COVID-19 cases where lineage B.1.1.7 was identified by genomic analysis and those presumed to be B.1.1.7 based on positive N501Y and negative E484K mutation. Starting March 22, 2021, specimens tested for the both the N501Y and E484K mutation, and if found to be positive for the N501Y mutation only, are not forwarded for further genomic analysis and presumed to be B.1.1.7.

\*\*Mutations includes all confirmed COVID-19 cases with the following mutations detected, reported from the Investigation Subtype field: N501Y and E484K, N501Y (E484K unknown), E484K (N501Y negative), E484K (N501Y unknown).

## **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 **April 10, 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 26 to April 7, 2021

Public Health Unit Name	Mar 26 to Apr 1	Mar 27 to Apr 2	Mar 28 to Apr 3	Mar 29 to Apr 4	Mar 30 to Apr 5	Mar 31 to Apr 6	Apr 1 to Apr 7	% change from Mar 26 - Apr 1 to Apr 1 - Apr 7
NORTH WEST								
Northwestern Health Unit	42.2	44.5	42.2	42.2	43.3	45.6	42.2	0.0%
Thunder Bay District Health Unit	96.7	88.0	77.4	68.0	52.0	46.7	32.0	-66.9%
NORTH EAST								
Algoma Public Health	8.7	11.4	11.4	12.2	16.6	17.5	21.0	+141.4%
North Bay Parry Sound District Health Unit	6.2	6.9	7.7	8.5	7.7	8.5	11.6	+87.1%
Porcupine Health Unit	21.6	21.6	24.0	25.2	28.8	34.8	27.6	+27.8%
Public Health Sudbury & Districts	74.9	76.9	66.3	73.4	73.9	82.9	85.4	+14.0%
Timiskaming Health Unit	9.2	9.2	9.2	12.2	12.2	6.1	6.1	-33.7%
EASTERN								
Ottawa Public Health	94.9	108.5	116.6	120.2	128.7	134.6	143.0	+50.7%
Eastern Ontario Health Unit	104.9	105.9	105.9	103.0	104.5	115.5	114.0	+8.7%
Hastings Prince Edward Public Health	52.2	54.6	58.8	70.0	81.9	89.6	84.9	+62.6%
Kingston, Frontenac and Lennox & Addington Public Health	28.2	25.4	22.6	27.7	33.4	38.1	43.2	+53.2%

Public Health Unit Name	Mar 26 to Apr 1	Mar 27 to Apr 2	Mar 28 to Apr 3	Mar 29 to Apr 4	Mar 30 to Apr 5	Mar 31 to Apr 6	Apr 1 to Apr 7	% change from Mar 26 - Apr 1 to Apr 1 - Apr 7
Leeds, Grenville & Lanark District Health Unit	37.0	34.6	31.2	36.4	39.3	47.4	53.1	+43.5%
Renfrew County and District Health Unit	12.0	12.0	19.3	23.9	23.0	28.5	31.3	+160.8%
CENTRAL EAST								
Durham Region Health Department	155.4	156.0	145.3	145.6	144.7	154.3	160.2	+3.1%
Haliburton, Kawartha, Pine Ridge District Health Unit	27.0	34.4	39.7	39.7	50.3	49.8	58.2	+115.6%
Peel Public Health	195.0	201.3	218.6	230.7	239.9	247.6	256.7	+31.6%
Peterborough Public Health	31.1	34.5	45.3	44.6	44.6	46.6	50.7	+63.0%
Simcoe Muskoka District Health Unit	64.0	69.4	76.4	74.4	81.7	88.2	94.7	+48.0%
York Region Public Health	155.2	158.7	170.4	174.5	181.4	187.7	204.3	+31.6%
TORONTO								
Toronto Public Health	176.1	178.8	184.5	193.1	196.9	205.4	208.8	+18.6%
SOUTH WEST								
Chatham-Kent Public Health	62.1	58.3	57.4	51.7	49.9	42.3	35.7	-42.5%
Grey Bruce Health Unit	32.4	33.6	37.1	34.1	35.9	33.0	39.4	+21.6%
Huron Perth Public Health	14.3	14.3	13.6	16.5	17.2	17.2	22.9	+60.1%
Lambton Public Health	129.0	107.7	103.1	90.1	88.6	69.5	84.8	-34.3%
Middlesex-London Health Unit	104.6	118.6	131.8	133.6	139.9	145.0	155.5	+48.7%

Public Health Unit Name	Mar 26 to Apr 1	Mar 27 to Apr 2	Mar 28 to Apr 3	Mar 29 to Apr 4	Mar 30 to Apr 5	Mar 31 to Apr 6	Apr 1 to Apr 7	% change from Mar 26 - Apr 1 to Apr 1 - Apr 7
Southwestern Public Health	52.5	44.9	44.0	44.9	46.3	49.2	46.3	-11.8%
Windsor-Essex County Health Unit	71.6	68.5	71.8	73.4	76.5	74.9	74.1	+3.5%
CENTRAL WEST								
Brant County Health Unit	72.2	74.7	73.5	86.3	105.7	112.8	121.1	+67.7%
City of Hamilton Public Health Services	124.0	121.8	122.4	120.2	117.2	127.5	131.2	+5.8%
Haldimand-Norfolk Health Unit	64.9	69.2	64.9	71.0	76.3	79.8	79.8	+23.0%
Halton Region Public Health	80.4	84.3	89.3	92.6	96.8	104.3	117.6	+46.3%
Niagara Region Public Health	101.2	103.9	116.0	126.6	130.0	143.1	147.9	+46.1%
Region of Waterloo Public Health and Emergency Services	57.8	57.8	54.8	57.0	65.0	70.5	71.9	+24.4%
Wellington-Dufferin- Guelph Public Health	56.7	74.4	81.8	92.3	108.0	116.4	121.8	+114.8%
TOTAL ONTARIO	118.4	121.9	127.4	132.1	137.0	143.4	149.3	+26.1%

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 April 10, 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 mutations**
Algoma Public Health	3	0	0	3
Brant County Health Unit	73	0	2	123
Chatham-Kent Public Health	14	0	0	77
City of Hamilton Public Health Services	461	0	0	820
Durham Region Health Department	1,242	1	7	1,546
Eastern Ontario Health Unit	204	1	0	247
Grey Bruce Health Unit	37	0	0	29
Haldimand-Norfolk Health Unit	13	0	0	73
Haliburton, Kawartha, Pine Ridge District Health Unit	6	0	0	127
Halton Region Public Health	886	0	1	559
Hastings Prince Edward Public Health	2	0	0	124
Huron Perth Public Health	6	0	0	21
Kingston, Frontenac and Lennox & Addington Public Health	60	0	0	93
Lambton Public Health	62	0	0	113
Leeds, Grenville & Lanark District Health Unit	14	0	0	93
Middlesex-London Health Unit	403	0	0	162

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 mutations**
Niagara Region Public Health	237	0	0	457
North Bay Parry Sound District Health Unit	29	27	0	12
Northwestern Health Unit	6	0	0	14
Ottawa Public Health	656	6	0	744
Peel Public Health	1,958	12	20	3,573
Peterborough Public Health	96	0	0	167
Porcupine Health Unit	4	2	0	3
Public Health Sudbury & Districts	11	0	0	489
Region of Waterloo Public Health and Emergency Services	235	1	0	504
Renfrew County and District Health Unit	35	0	0	7
Simcoe Muskoka District Health Unit	885	2	16	657
Southwestern Public Health	100	0	0	27
Thunder Bay District Health Unit	0	0	0	4
Timiskaming Health Unit	21	1	0	0
Toronto Public Health	3,287	22	69	11,443
Wellington-Dufferin-Guelph Public Health	358	0	0	181
Windsor-Essex County Health Unit	183	0	0	72

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 mutations**
York Region Public Health	2,800	3	19	2,205
TOTAL ONTARIO	14,387	78	134	24,769

**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.

\*Includes all confirmed COVID-19 cases where lineage B.1.1.7 was identified by genomic analysis and those presumed to be B.1.1.7 based on positive N501Y and negative E484K mutation.

\*\*Mutations includes all confirmed COVID-19 cases with the following mutations detected, reported from the Investigation Subtype field: N501Y and E484K, N501Y (E484K unknown), E484K (N501Y negative), E484K (N501Y unknown).

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. **Data Source**: CCM

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 24 to April 5, 2021

Public Health Unit Name	March 24 to March 30	March 25 to March 31	March 26 to April 1	March 27 to April 2	March 28 to April 3	March 29 to April 4	March 30 to April 5
Algoma Public Health	66.7	66.7	60.0	53.8	46.2	28.6	31.6
Brant County Health Unit	41.4	48.0	48.2	45.7	45.6	44.8	45.1
Chatham-Kent Public Health	41.7	39.1	34.8	35.5	36.1	41.8	45.3
City of Hamilton Public Health Services	56.5	57.5	59.9	61.0	61.5	59.8	60.7
Durham Region Health Department	80.4	81.0	79.6	78.8	78.3	77.7	77.5
Eastern Ontario Health Unit	64.8	67.2	70.3	71.9	71.5	70.7	68.8
Grey Bruce Health Unit	37.9	45.3	50.9	56.1	50.8	50.0	50.8
Haldimand-Norfolk Health Unit	55.6	55.8	58.1	60.8	58.1	58.0	60.9
Haliburton, Kawartha, Pine Ridge District Health Unit	62.2	59.1	58.8	63.1	64.0	70.7	64.2
Halton Region Public Health	70.1	69.9	69.9	70.5	70.9	70.0	71.3
Hastings Prince Edward Public Health	59.3	60.0	61.4	60.9	65.7	67.8	65.2
Huron Perth Public Health	47.1	52.4	50.0	50.0	42.1	52.2	54.2
Kingston, Frontenac and Lennox & Addington Public Health	58.8	57.4	58.3	63.0	68.8	74.6	73.2
Lambton Public Health	34.4	34.2	30.2	34.8	32.6	34.7	35.3

Public Health Unit Name	March 24 to March 30	March 25 to March 31	March 26 to April 1	March 27 to April 2	March 28 to April 3	March 29 to April 4	March 30 to April 5
Leeds, Grenville & Lanark District Health Unit	26.6	31.5	32.8	38.3	40.7	42.9	48.5
Middlesex-London Health Unit	43.4	43.0	46.5	48.5	48.6	49.1	48.6
Niagara Region Public Health	58.0	58.5	56.5	54.6	47.4	41.5	36.6
North Bay Parry Sound District Health Unit	80.0	83.3	87.5	88.9	90.0	81.8	80.0
Northwestern Health Unit	23.1	23.1	29.7	35.9	35.1	21.6	18.4
Ottawa Public Health	45.0	46.9	47.9	49.3	53.3	54.0	55.7
Peel Public Health	67.6	67.4	66.8	68.0	68.0	68.4	68.7
Peterborough Public Health	68.9	65.9	69.6	64.7	77.6	78.8	78.8
Porcupine Health Unit	50.0	29.4	33.3	33.3	40.0	38.1	41.7
Public Health Sudbury & Districts	46.7	41.0	43.0	50.3	54.5	62.3	67.3
Region of Waterloo Public Health and Emergency Services	42.7	44.0	42.9	45.0	44.4	50.5	53.9
Renfrew County and District Health Unit	60.0	63.2	61.5	69.2	81.0	69.2	72.0
Simcoe Muskoka District Health Unit	67.1	67.3	66.4	64.2	63.3	63.5	63.9
Southwestern Public Health	20.4	23.6	23.4	27.4	34.4	37.9	46.9
Thunder Bay District Health Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Public Health Unit Name	March 24 to March 30	March 25 to March 31	March 26 to April 1	March 27 to April 2	March 28 to April 3	March 29 to April 4	March 30 to April 5
Timiskaming Health Unit	85.7	83.3	100.0	100.0	100.0	100.0	100.0
Toronto Public Health	74.8	74.8	74.9	74.9	75.0	75.0	76.0
Wellington-Dufferin- Guelph Public Health	60.2	63.9	68.9	67.7	67.8	69.4	68.2
Windsor-Essex County Health Unit	25.3	28.1	32.6	37.1	40.7	42.0	43.1
York Region Public Health	76.0	77.2	79.4	78.7	78.7	78.3	78.4
TOTAL ONTARIO	65.4	66.0	66.3	66.8	67.1	67.3	67.7

**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

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### For Further Information

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

## Public Health Ontario

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