

### WEEKLY EPIDEMIOLOGICAL SUMMARY

# COVID-19 in Ontario: Focus on September 19, 2021 to September 25, 2021

This report includes the most current information available from CCM as of **September 28, 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 <u>daily summary</u> is available and provides an epidemiologic summary of recent COVID-19 activity in Ontario. This weekly report provides an epidemiologic summary of COVID-19 activity in Ontario over time.

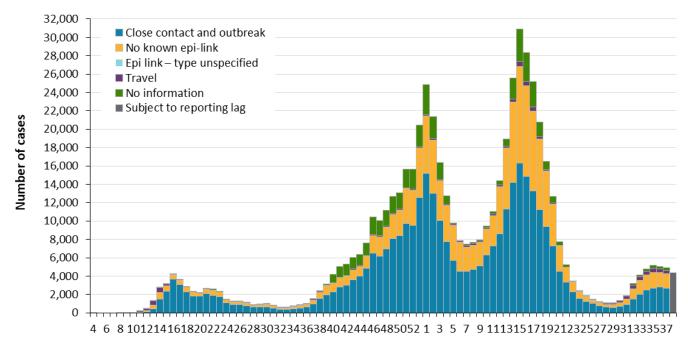
### Highlights

- There are a total of 584,351 confirmed cases of COVID-19 in Ontario with a public health unit reported date up to September 25, 2021.
- For the period with a public health unit (PHU) reported date between September 19 to 25, 2021 (week 38):
  - A total of 4,385 cases were reported to public health compared to 4,917 cases the previous week (September 12 to 18, 2021).
  - Week 38 is the first time since the start of the pandemic where rates of cases per 100,000 population were higher among individuals aged 0 to 4 years (39.4) than individuals aged 20 to 39 years (38.2). Currently, case rates are highest among individuals aged 5 to 11 (59.8).
  - Most outbreaks reported since week 37 (September 12 to 18) have occurred in education and childcare settings. In week 38, outbreaks in education and childcare settings accounted for 60.5% of all reported outbreaks and 46.8% of all reported cases associated with outbreaks.

The term public health unit reported date in this document refers to the date local public health units were first notified of the case. Data corrections or updates can result in case records being removed and or updated from past reports. Thus comparisons of case counts by public health unit reported date may not align with daily change in cases publicly reported by the province for the same time period, which reflects the difference in cumulative counts between one day and the next.

#### **Cases Over Time**

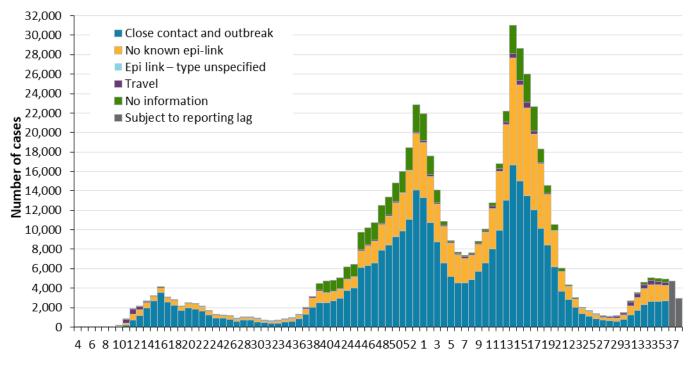
# Figure 1. Confirmed cases of COVID-19 by likely source of acquisition and public health unit reported week: Ontario



#### **Reported week**

**Note**: Include cases with reported dates ranging from week-4 (January 19 and 25, 2020) to week 38 (September 19 and 25, 2021). See <u>Table 1A</u> in Appendix A for a list of the weeks and corresponding start and end dates. **Data Source:** CCM

# Figure 2. Confirmed cases of COVID-19 by likely source of acquisition and approximation of symptom onset week: Ontario



#### Episode week

**Note:** Not all cases have an episode date. Cases without an episode date are not included in the figure. The definition for how episode date is defined is available in the technical notes. Include cases with episode dates ranging from week-4 (January 19 and 25, 2020) to week 38 (September 19 and 25, 2021). See <u>Table 1A</u> in Appendix A for a list of the weeks and corresponding start and end dates. **Data Source:** CCM

### **Case Characteristics**

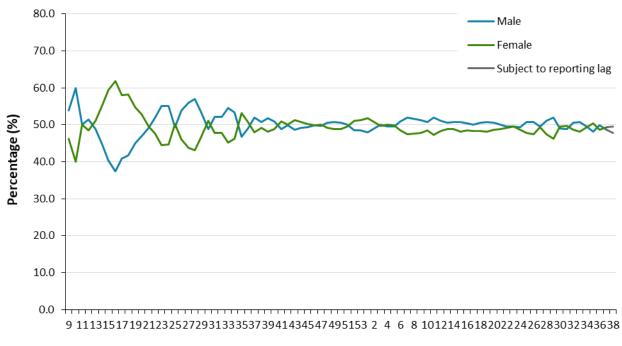
# Table 1. Summary of confirmed cases of COVID-19 by public health unit reported date:Ontario

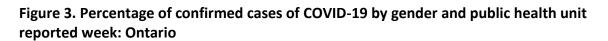
	Reported week 37 (September 12 to 18)	Reported week 38 (September 19 to 25)	Cumulative case count up to September 25	Cumulative rate per 100,000 population
Total number of cases	4,917	4,385	584,351	3,966.0
Gender: Male	2,388	2,094	291,105	3,999.0
Gender: Female	2,426	2,177	289,145	3,878.8
Ages: 0-4	277	285	16,364	2,263.3
Ages: 5-11	624	645	29,437	2,729.4
Ages: 12-19	478	415	52,172	3,924.2
Ages: 20-39	1,998	1,584	220,592	5,313.1
Ages: 40-59	1,038	943	164,129	4,213.3
Ages: 60-79	421	414	75,761	2,612.7
Ages: 80 and over	81	97	25,786	3,931.8
Number resolved	N/A	N/A	570,744	N/A

Note: Not all cases have an age or gender reported.

Interpret information for the most recent week with caution due to reporting lags.

Data Source: CCM

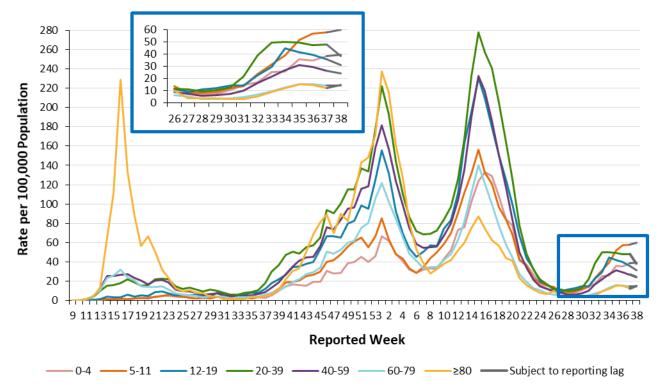




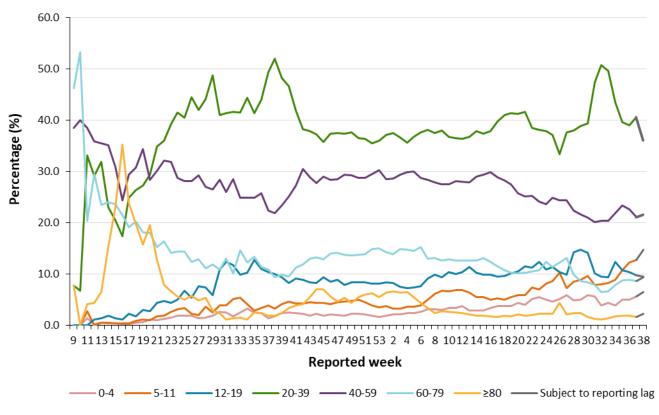
#### **Reported Week**

**Note:** Not all cases have a gender reported. The denominator for calculating weekly percentages includes all cases. Only weeks with more than 10 cases by public health unit reporting date are included (starting in week-9). Include cases with reported dates ranging from week-9 (February 23 and 29, 2020) to week 38 (September 19 and 25, 2021). See <u>Table 1A</u> in Appendix A for a list of the weeks and corresponding start and end dates. **Data Source**: CCM

Figure 4a. Rate of confirmed cases of COVID-19 per 100,000 population by age group and public health unit reported week: Ontario



**Note**: Not all cases have an age reported. Only weeks with more than 10 cases by public health unit reporting date are included (starting in week 9). Include cases with reported dates ranging from week 9 (February 23 and 29, 2020) to week 38 (September 19 and 25, 2021). See <u>Table 1A</u> in Appendix A for a list of the weeks and corresponding start and end dates. **Data Source**: CCM



## Figure 4b. Percentage of confirmed cases of COVID-19 by age group and public health unit reported week: Ontario

**Note**: Only weeks with more than 10 cases by public health unit reporting date are included (starting in week 9). Include cases with reported dates ranging from week 9 (February 23 and 29, 2020) to week 38 (September 19 and 25, 2021). See <u>Table 1A</u> in Appendix A for a list of the weeks and corresponding start and end dates. **Data Source**: CCM

#### Deaths

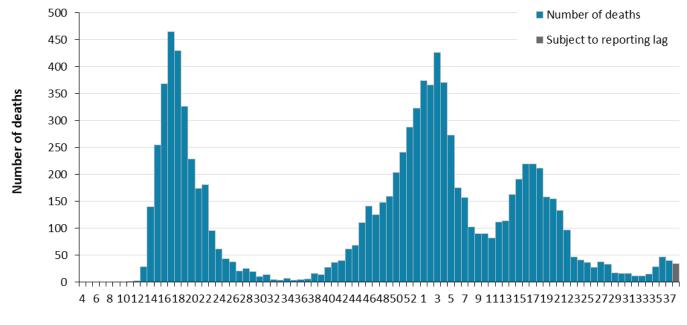


Figure 5. Deaths among confirmed cases of COVID-19 by week of death: Ontario

Death week

**Note**: Cases without a death date are not included in the figure. Include cases with date of death ranging from week-4 (January 19 and 25, 2020) to week 38 (September 19 and 25, 2021). See <u>Table 1A</u> in Appendix A for a list of the weeks and corresponding start and end dates. **Data Source**: CCM

# Table 2. Summary of deaths among confirmed cases of COVID-19 by public health unit reported week: Ontario

Deaths	Reported week 37 (September 12 to 18)	Reported week 38 (September 19 to 25)	Cumulative case count up to September 25	Cumulative rate per 100,000 population
Number of deaths	21	3	9,723	66.0
Gender: Male	10	1	4,964	68.2
Gender: Female	10	2	4,695	63.0
Ages: 19 and under	1	0	6	0.2
Ages: 20-39	1	0	95	2.3
Ages: 40-59	4	1	663	17.0
Ages: 60-79	6	1	3,165	109.1
Ages: 80 and over	9	1	5,793	883.3

**Note:** Age and gender may not be reported for all cases. Reported week is the week the case was reported to the public health unit. This is different than the "week of death" presented in Figure 5 which reflects the week the case was reported to have a 'Fatal' outcome.

Interpret information for the most recent week with caution due to reporting lags. **Data Source**: CCM

#### Exposure

Table 3. Confirmed cases of COVID-19 by likely source of acquisition and public health unit reported week: Ontario

	Reported week 37 (September 12 to 18)	Percentage	Reported week 38 (September 19 to 25)	Percentage	Cumulative case count up to September 25	Cumulative percentage
Travel	302	6.1%	233	5.3%	12,438	2.1%
Outbreak- associated or close contact of a confirmed case	2,671	54.3%	2,453	55.9%	348,744	59.7%
Epidemiological link – type unspecified	0	0.0%	0	0.0%	46	0.0%
No known epidemiological link	1,607	32.7%	1,317	30.0%	170,496	29.2%
Information missing or unknown	337	6.9%	382	8.7%	52,627	9.0%
Total	4,917		4,385		584,351	

**Note**: Information for how cases are grouped within each category is available in the technical notes. Interpret information for the most recent week with caution due to reporting lags. **Data Source**: CCM

### Sub-populations of interest

Health care workers	Reported week 37 (September 12 to 18)	Reported week 38 (September 19 to 25)	Cumulative case count up to September 25
Number of cases	97	77	24,395
Ever hospitalized	3	0	479
Ever in ICU	0	0	99

#### Table 4. Summary of cases of COVID-19 among health care workers: Ontario

**Note:** Interpret information for the most recent week with caution due to reporting lags. **Data Source:** CCM

# Table 5. Summary of cases of COVID-19 associated with long-term care home outbreaks:Ontario

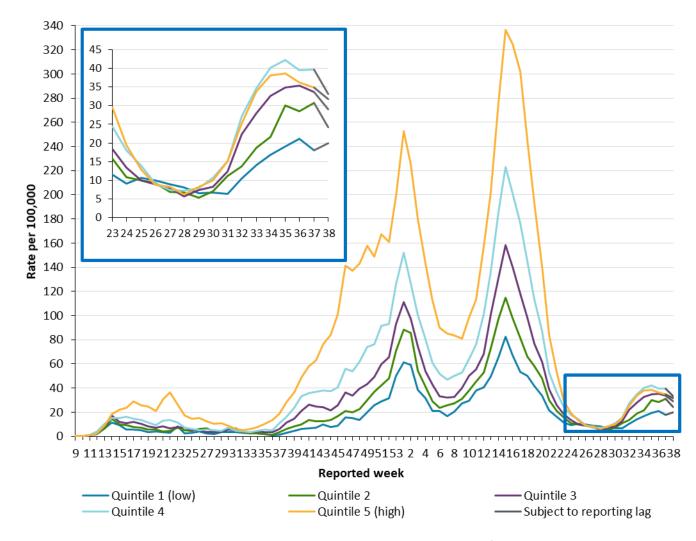
Long-term care home associated cases	Reported week 37 (September 12 to 18)	Reported week 38 (September 19 to 25)	Cumulative case count up to September 25
Residents	17	28	15,587
Deaths among residents	2	0	4,011
Health care workers	9	8	7,347
Deaths among health care workers	0	0	10

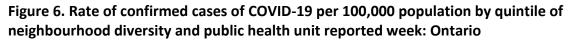
**Note:** Information on how long-term care home residents and health care workers are identified is available in the technical notes. Interpret information for the most recent week with caution due to reporting lags. **Data Source:** CCM

Table 6: Summary of reinfection cases of COVID-19 by age group and public health unit reported week: Ontario

Age Group	Reported Week 37 (September 12 to 18)	Reported Week 38 (September 19 to 25)	Cumulative count from November 1 up to September 25	Percent of reinfection cases
Ages: 0-4	2	2	15	4.5%
Ages: 5-11	0	0	2	0.6%
Ages: 12-19	1	1	36	10.8%
Ages: 20-39	5	4	159	47.6%
Ages: 40-59	1	2	86	25.7%
Ages: 60-79	0	0	25	7.5%
Ages: 80 and over	0	0	11	3.3%
Total reinfection cases	9	9	334	

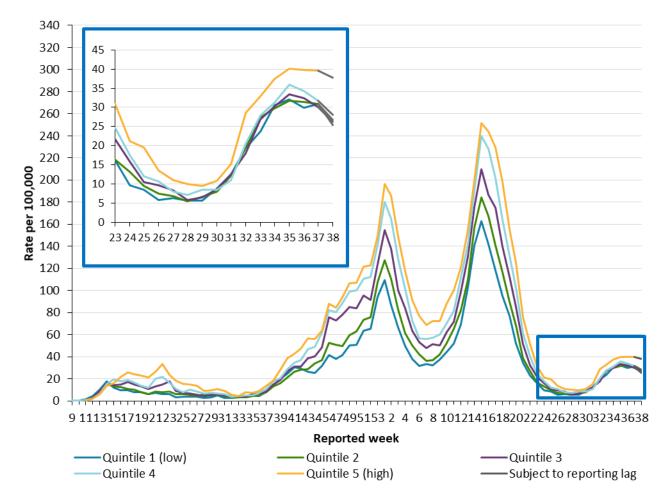
**Note:** Cases identified as reinfections meeting the <u>provincial definition</u> as indicated by public health units selecting the reinfection checkbox. Cumulative counts include cases of COVID-19 reinfection reported starting week-45 (November 1 to 7, 2020). Not all cases have a reported age or gender. 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

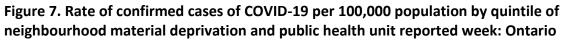




**Note:** Neighbourhood diversity is measured using the ethnic concentration dimension of the Ontario Marginalization Index. The ethnic concentration dimension is based on the proportion of non-white and non-Indigenous residents and/or the proportion of immigrants that arrived in Canada within the past five years. Only weeks with more than 10 cases by public health unit reporting date are included (starting in week 9). Include cases with reported dates ranging from weeks 9 (February 23 to 29, 2020) to week 38 (September 19 to 25, 2021). As of June 8, all rate denominators were changed to the 2021 OHIP RPDB population, and as a result, rates shown here may differ from previous reports. See Table 1A in Appendix A for a list of the weeks and corresponding start and end dates.

Data Source: CCM, Ontario Marginalization Index





**Note:** Neighbourhood material deprivation is measured using the material deprivation dimension of the Ontario Marginalization Index. The material deprivation dimension uses Canadian census data on income, quality of housing, educational attainment and family structure characteristics to assess the ability of individuals and communities to access and attain basic material needs. Only weeks with more than 10 cases by public health unit reporting date are included (starting in week 9). Include cases with reported dates ranging from weeks 9 (February 23 to 29, 2020) to week 38 (September 19 to 25, 2021). As of June 8, all rate denominators were changed to the 2021 OHIP RPDB population, and as a result, rates shown here may differ from previous reports. See Table 1A in Appendix A for a list of the weeks and corresponding start and end dates. **Data Source:** CCM, Ontario Marginalization Index

Table 7: Summary of cases of COVID-19 by quintile of neighbourhood diversity and publichealth unit reported week: Ontario

	Cases Reported Week 37(September 12 to 18)	Cases Reported Week 38 (September 19 to 25)	Cumulative case count up to September 25	Cumulative rate per 100,000 population up to September 25
Quintile 1 (least diverse)	401	444	32,059	1,443.3
Quintile 2	730	573	47,568	2,008.7
Quintile 3	872	754	70,395	2,715.7
Quintile 4	1,242	1,039	119,337	3,815.6
Quintile 5 (most diverse)	1,507	1,376	272,985	6,315.8

**Note:** Neighbourhood diversity is measured using the ethnic concentration dimension of the Ontario Marginalization Index. The ethnic concentration dimension is based on the proportion of non-white and non-Indigenous residents and/or the proportion of immigrants that arrived in Canada within the past five years. Cumulative counts and rates include cases of COVID-19 reported starting week 9 (February 23 to 29, 2020). **Data Source:** CCM, Ontario Marginalization Index

## Table 8: Summary of cases of COVID-19 by quintile of neighbourhood material deprivation and public health unit reported week: Ontario

	Cases Reported Week 37(September 12 to 18)	Cases Reported Week 38 (September 19 to 25)	Cumulative case count up to September 25	Cumulative rate per 100,000 population up to September 25
Quintile 1 (least material deprivation)	1,065	920	92,423	2,681.9
Quintile 2	957	790	96,027	3,093.0
Quintile 3	835	727	104,553	3,770.5
Quintile 4	833	736	114,392	4,353.5
Quintile 5 (most material deprivation)	1,062	1,013	134,949	5,035.4

**Note:** Neighbourhood material deprivation is measured using the material deprivation dimension of the Ontario Marginalization Index. The material deprivation dimension uses Canadian census data on income, quality of housing, educational attainment and family structure characteristics to assess the ability of individuals and communities to access and attain basic material needs. Cumulative counts and rates include cases of COVID-19 reported starting week 9 (February 23 to 29, 2020).

Data Source: CCM, Ontario Marginalization Index

#### Geography

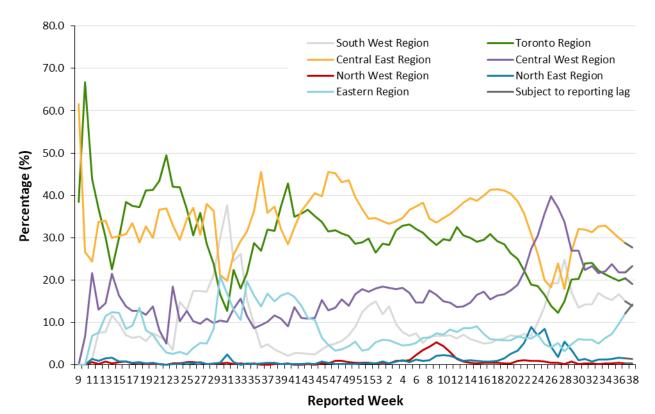
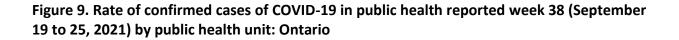
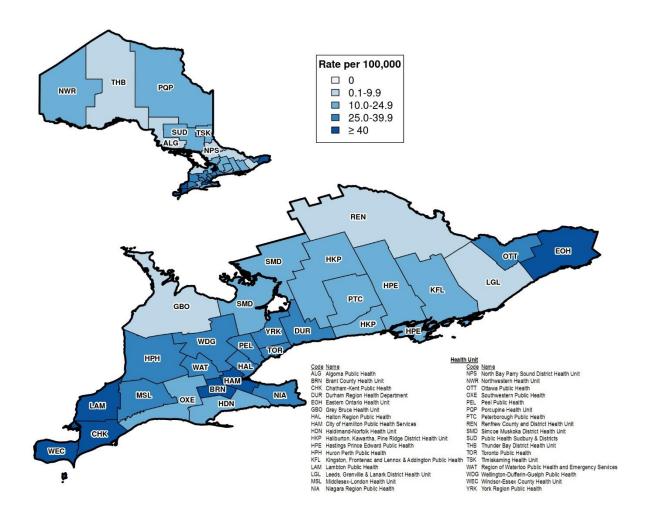


Figure 8. Percentage of COVID-19 cases by geographic region and public health unit reported week: Ontario

**Note:** Only weeks with more than 10 cases by public health unit reporting date are included (starting in week-9). Include cases with reported dates ranging from week-9 (February 23 and 29, 2020) to week 38 (September 19 and 25, 2021). <u>Table 2A</u> in Appendix A has a listing of public health units by region. **Data Source:** CCM





Note: The provincial rate of confirmed cases of COVID-19 reported in week 38 was 29.8 cases per 100,000 population. Data Source: CCM

### Outbreaks

Table 9. Number of	public health unit declared COVID-	19 outbreaks by setting type: Ontario
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Setting Type	Reported week 38 (September 19 to 25)	Number of ongoing outbreaks	Cumulative number of outbreaks reported to September 25
Congregate Care	8	25	3,003
Long-term care homes	4	17	1,519
Retirement homes	2	5	892
Hospitals	2	3	592
Congregate Living	7	18	1,376
Correctional facility	0	2	64
Shelter	1	2	284
Group Home/supportive housing	6	12	804
Short-term accommodations	0	0	46
Congregate other	0	2	178
Education and Childcare	78	161	2,713
Child care	13	27	1,108
Camp – Day*	0	1	21
Camp – Overnight*	0	0	1
Camp – Unspecified*	0	0	1
School – Elementary**	55	107	1,182
School – Elementary/secondary**	1	3	67
School – Secondary**	7	18	279
School – Post-secondary**	2	5	54
Other settings	36	70	4,566
Bar/restaurant/nightclub	6	4	397

COVID-19 in Ontario: Focus on September 19, 2021 to September 25, 2021

Setting Type	Reported week 38 (September 19 to 25)	Number of ongoing outbreaks	Cumulative number of outbreaks reported to September 25
Medical/health services	2	3	164
Personal service settings	0	2	37
Recreational fitness	0	2	113
Retail	0	4	496
Other recreation/community	4	10	279
Workplace – Farm	5	9	246
Workplace - Food processing	1	2	284
Other types of workplaces	12	27	2,521
Other	1	1	5
Unknown	5	6	24
Total number of outbreaks	129	274	11,658

**Note:** Reported week is based on the outbreak reported date, and if unavailable, the date the public health unit created the outbreak. Ongoing outbreaks includes all outbreaks that are 'Open' in CCM without a 'Declared Over Date' recorded 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'. Interpret information for the most recent week with caution due to reporting lags. Outbreak categories are mutually exclusive. Retail includes settings such as grocery stores, pharmacies, malls, etc. Other types of workplaces include settings such as offices as well as warehousing, shipping and distribution, manufacturing facilities, mines and construction sites, etc. Other recreation/community includes settings such as entertainment and event venues, gatherings (e.g., weddings), religious facilities, etc. Medical/health services refer to settings such as doctor's office or clinic, wellness clinics, etc., and excludes categories listed in the congregate care setting group.

\*Cumulative counts include COVID-19 camp outbreaks reported starting week-27 of 2021 (July 4 to 10, 2021). \*\*Cumulative counts include COVID-19 school outbreaks reported starting week-36 (August 30 to September 5, 2020).

Ongoing re-classification of settings for reported outbreaks can result in outbreak counts that may differ from previously reported counts. Outbreaks in settings outside of Ontario are excluded from all outbreak counts. **Data Source:** CCM

# Table 10. Confirmed cases of COVID-19 associated with COVID-19 outbreaks by setting typeand public health unit reported week: Ontario

Cases associated with the outbreak setting type	Reported week 37 (September 12 to 18)	Reported week 38 (September 19 to 25)	Cumulative number of cases
Congregate Care	53	75	40,500
Long-term care homes	42	51	26,768
Retirement homes	9	16	7,295
Hospitals	2	8	6,437
Congregate Living	24	30	10,218
Correctional facility	8	17	1,803
Shelter	6	2	2,825
Group Home/supportive housing	9	11	3,692
Short-term accommodations	0	0	249
Congregate other	1	0	1,649
Education and Childcare	260	272	11,500
Child care	48	40	4,571
Camp – Day*	1	0	109
Camp – Overnight*	0	0	14
Camp – Unspecified*	0	0	2
School – Elementary**	164	210	4,848
School – Elementary/secondary**	7	1	351
School – Secondary**	31	19	1,168
School – Post-secondary**	9	2	437
Other settings	219	115	36,426
Bar/restaurant/nightclub	38	17	1,921
Medical/health services	4	1	741

Cases associated with the outbreak setting type	Reported week 37 (September 12 to 18)	Reported week 38 (September 19 to 25)	Cumulative number of cases
Personal service settings	4	1	131
Recreational fitness	4	0	811
Retail	14	5	2,649
Other recreation/community	77	28	3,546
Workplace - Farm	17	19	3,217
Workplace - Food processing	4	2	3,783
Other types of workplaces	44	28	19,470
Other	1	0	25
Unknown	12	14	132
Total number of cases	556	492	98,644

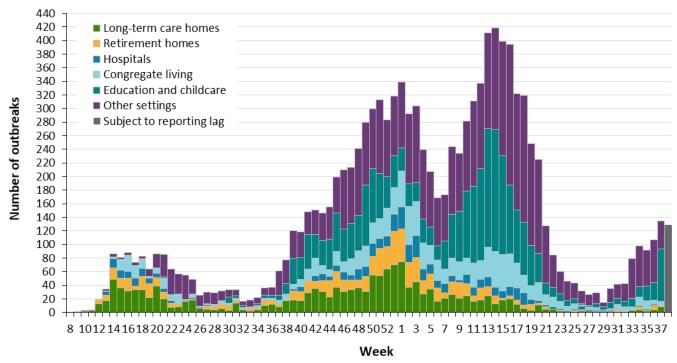
**Note:** Interpret case counts for the most recent week with caution due to reporting lags. Outbreak categories are mutually exclusive. Retail includes settings such as grocery stores, pharmacies, malls, etc. Other types of workplaces include settings such as offices as well as warehousing, shipping and distribution, manufacturing facilities, mines, and construction sites, etc. Other recreation/community includes settings such as entertainment and event venues, gatherings (e.g., weddings), religious facilities, etc. Medical/health services refer to setting such as doctor's office or clinic, wellness clinics, etc., and excludes categories listed in the congregate care setting group. \*Cumulative counts include cases of COVID-19 camp outbreaks reported starting week-27 of 2021 (July 4 to 10, 2021).

\*\*Cumulative counts include cases of COVID-19 associated with school outbreaks reported starting week-36 (August 30 to September 5, 2020).

Ongoing re-classification of settings for reported outbreaks can result in case counts that may differ from previously reported counts. Cases associated with outbreaks outside of Ontario are excluded from case counts in this table.

Data Source: CCM

# Figure 10. Public health unit declared COVID-19 outbreaks by outbreak setting type and public health unit reported week: Ontario



**Note:** If public health unit outbreak reported date is unavailable, the date the public health unit created the outbreak is used. Week 8 refers to February 16 and 22, 2020 and week 38 refers to September 19 and 25, 2021. Congregate living include group homes, shelters, correctional facilities, etc. Other settings include outbreaks within workplaces, childcare, schools, restaurants, recreation etc. **Data Source:** CCM

#### Variant COVID-19 Cases

# Table 11. Summary of confirmed COVID-19 cases with a mutation or VOC detected by age group and gender: Ontario

	Lineage B.1.1.7 (Alpha)*	Lineage B.1.351 (Beta)**	Lineage P.1 (Gamma)* **	Lineage B.1.617.2 (Delta)†	Mutations‡	Mutation not detected§	Cumulative case count as of September 25, 2021
Gender: Male	73,969	736	2,709	9,345	11,892	13,891	112,542
Gender: Female	71,573	762	2,486	9,031	10,951	13,706	108,509
Ages: 19 and under	27,809	250	905	4,280	4,670	6,126	44,040
Ages: 20-39	55,588	485	1,945	8,093	8,998	11,077	86,186
Ages: 40-59	42,833	491	1,572	4,212	6,300	7,061	62,469
Ages: 60-79	17,431	236	669	1,619	2,708	3,021	25,684
Ages: 80 and over	2,794	41	137	361	451	628	4,412

**Note:** Not all cases have an 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 for cases with a B.1.1.7 (Alpha), B.1.351 (Beta), P.1 (Gamma) and B.1.617.2 (Delta) lineage detected or a mutation 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 data caveats section.

\*Includes all confirmed COVID-19 cases where lineage B.1.1.7 (Alpha) was identified by genomic analysis and those presumed to be B.1.1.7 based on a positive N501Y and negative E484K mutation in the Investigation Subtype field. \*\*Includes B.1.351 (Beta) cases identified by genomic analysis and those presumed to be B.1.351 based on 'Mutation K417N+ and N501Y+ and E484K+' in the Investigation Subtype field.

\*\*\*Includes P.1 (Gamma) cases identified by genomic analysis and those presumed to be P.1 based on 'Mutation K417T+ and N501Y+ and E484K+' in the Investigation Subtype field.

<sup>+</sup>Includes B.1.617.2 (Delta) and AY.3 cases identified by genomic analysis. Mutations common to B.1.617.2 are not included in the current VOC mutation test.

<sup>‡</sup>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).

§Includes cases identified as 'Mutation not detected' or 'Mutation N501Y- and E484K-'in the Investigation Subtype field only.

Data Source: CCM

	Lineage B.1.1.7 (Alpha)*	%	Lineage B.1.351 (Beta)**	%	Lineage P.1 (Gamma)***	%	Lineage B.1.617.2 (Delta)†	%	Mutations ‡	%	Cumulative case count up to September 25, 2021	Cumulative percentage
Travel	842	0.6%	38	2.5%	70	1.3%	1,436	7.7%	323	1.4%	2,709	1.4%
Outbreak- associated or close contact of a confirmed case	81,684	55.8%	961	63.9%	3,318	63.5%	10,317	55.6%	15,001	64.9%	111,281	57.1%
Epidemiological link – type unspecified	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
No known epidemiological link	52,245	35.7%	405	26.9%	1,610	30.8%	5,982	32.2%	6,707	29.0%	66,949	34.4%
Information missing or unknown	11,693	8.0%	99	6.6%	230	4.4%	830	4.5%	1,097	4.7%	13,949	7.2%
Total	146,464		1,503		5,228		18,565		23,128		194,888	

Table 12. Summary of confirmed COVID-19 cases with a mutation or VOC detected by likely source of acquisition: Ontario

Note: Information for how cases are grouped within each category is available in the technical notes. Data for cases with a B.1.1.7 (Alpha), B.1.351 (Beta), and P.1 (Gamma) lineage detected are determined using the Investigation Subtype field only.

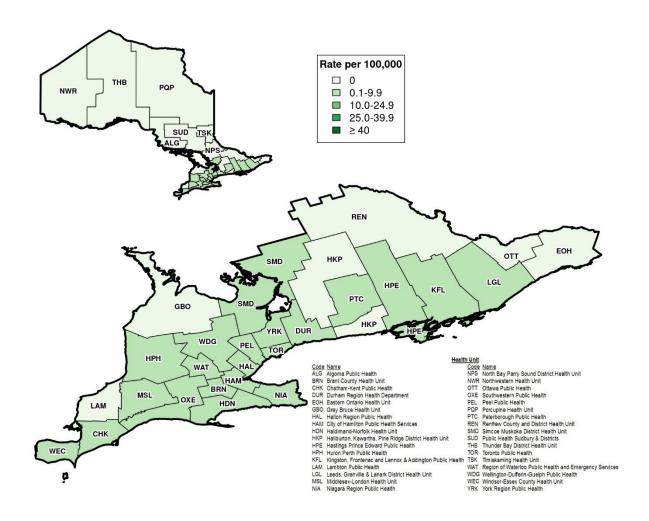
\*Includes all confirmed COVID-19 cases where lineage B.1.1.7 (Alpha) was identified by genomic analysis and those presumed to be B.1.1.7 based on a positive N501Y and negative E484K mutation in the Investigation Subtype field.

\*\*Includes B.1.351 (Beta) cases identified by genomic analysis and those presumed to be B.1.351 based on 'Mutation K417N+ and N501Y+ and E484K+' in the Investigation Subtype field.

\*\*\*Includes P.1 (Gamma) cases identified by genomic analysis and those presumed to be P.1 based on 'Mutation K417T+ and N501Y+ and E484K+' in the Investigation Subtype field.

†Includes B.1.617.2 (Delta) and AY.3 cases identified by genomic analysis. Mutations common to B.1.617.2 are not included in the current VOC mutation test.
 ‡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)
 Data Source: CCM

Figure 11. Rates of confirmed cases of COVID-19 with lineage B.1.617.2 (Delta)\* detected in public health reported week 38 (September 19 to 25, 2021) by public health unit: Ontario



**Note**: The provincial rate of confirmed cases of COVID-19 with lineage B.1.617.2 (Delta)\* reported in week 38 was 1.1 cases per 100,000 population. Data for cases with a B.1.617.2\* lineage 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 data caveats section.

\*Includes B.1.617.2 (Delta) and AY.3 cases identified by genomic analysis. Mutations common to B.1.617.2 are not included in the current VOC mutation test.

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 September 28, 2021 at 1 p.m. for cases reported from February 1, 2021 onwards and as of September 27, 2021 at 9 a.m. for cases reported up January 31, 2021.
- VOC data for this report were based on information successfully extracted from CCM for all PHUs by PHO as of **September 28, 2021 at 1 p.m.** for cases reported from April 1, 2021 onwards and as of **September 27, 2021 at 9 a.m**. for cases reported up to March 31, 2021.
- 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].
- Statistics Canada Postal Code Conversion File Plus (PCCF+), version 7B.
- The health equity (neighbourhood-level diversity and material deprivation) analyses use data from the 2016 Ontario Marginalization Index (ON-Marg), and population counts from the Ontario Health Insurance Plan (OHIP) Registered Person Database (RPDB) as of May 1, 2021 (provided by the Institute for Clinical Evaluative Sciences [ICES]):
  - Matheson FI; van Ingen T. 2016 Ontario marginalization index. Toronto, ON: Providence St. Joseph's and St. Michael's Healthcare; 2018. Joint publication with Public Health Ontario.
  - Chung H, Fung K, Ishiguro L, Paterson M, et al. Characteristics of COVID-19 diagnostic test recipients, Applied Health Research Questions (AHRQ) # 2021 0950 080 000. Toronto: Institute for Clinical Evaluative Sciences; 2020.

#### Data Caveats and Methods: Case Data

- The data represent case information reported to public health units and recorded in CCM. As a result, all counts are 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.
- Observed trends over time should be interpreted with caution for the most recent period due to reporting and/or data entry lags.
- Only cases meeting the confirmed case classification as listed in the <u>MOH Case Definition</u> <u>Coronavirus Disease (COVID-19) document</u> are included in the report counts from CCM. This includes persons with:
  - laboratory confirmation by a validated NAAT assay
  - a validated point-of-care (POC) assay deemed acceptable to provide a final result
  - a validated laboratory-based serological assay SARS-CoV-2

- Cases of confirmed reinfection, as defined in the provincial case definitions, are counted as unique investigations. Reinfection cases include cases for persons (CCM clients) with two or more confirmed case investigations where the case investigations after the first one have the reinfection checkbox marked as 'Yes'.
- Case classification information may be updated for individuals with a positive result issued from a point-of-care assays.
- 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.
- Reported date is the date the case was reported to the public health unit. This is different than the daily change in cases released by the Province for the same time period, which reflects the difference in cumulative counts reported to the Province between one day and the next.
- Reported weeks were created to align with the Public Health Agency of Canada (PHAC) influenza surveillance weeks.
- Case episode date represents an estimate of disease onset. This date is calculated based on the earliest date of symptom onset, specimen collection/test date, or the date reported to the public health unit.
- Cases with unknown or missing ages were excluded from age-specific analyses.
- Health care worker includes cases that reported 'Yes' to any of the following occupations: health care worker, doctor, nurse, dentist, dental hygienist, midwife, other medical technicians, personal support worker, respiratory therapist, first responder.
- 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 considered 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 hospitalization end date entered) and have a case status of 'closed' indicating that public health follow up is complete and are 14 days past their symptom onset date or specimen collection date
- Data on hospital admissions, ICU admissions and deaths are likely under-reported as these events may occur after the completion of public health follow up of cases. Cases that were admitted to hospital or died after follow-up was completed may not be captured in CCM.
- 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.

- Hospitalization includes all cases for which a hospital admission date was reported or hospitalization/ICU was reported as 'Yes' 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.
- Likely source of acquisition is determined by examining the epidemiologic link and epidemiologic link status fields in CCM and local systems. If no epidemiologic link is identified in those fields the risk factor fields are examined to determine whether a case travelled, was associated with a confirmed outbreak, was a contact of a case, had an Epidemiological link with type unspecified, 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
- '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.
- '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.
- 'Cases associated with school outbreaks' includes cases that are linked to an outbreak, by school classification type (Elementary, Elementary/Secondary, Secondary, Post-Secondary), that met the definition of a <u>school outbreak</u>.
- School classification types are defined by the Ministry of Education.
  - Elementary/Secondary schools include public or private schools educating children in a combination of elementary and secondary grades (e.g., Kindergarten to Grade 8, Grades 9 to 12, and Kindergarten to Grade 12).

- 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 (to signify a case that is not a resident of Ontario) have been excluded from the analyses.
  - GTA health units include: Durham Region Health Department, Peel Public Health, Toronto Public Health and York Region Public Health
- 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'.
- Outbreaks are declared by the local medical officer of health or their designate in accordance to the Health Protection and Promotion Act and criteria outlined in <u>Ministry guidance documents</u>.
- School outbreaks include outbreaks declared on or after week-36 (August 30 to September 5, 2020).
- 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> services/test-information-index/covid-19-voc
- Lineage nomenclature is dynamic. PANGO lineage naming and assignment may change as more samples are sequenced and analyzed.
- Variant status may be updated based on scientific evidence. Variants designated as a VOC in Canada is available on the <u>Public Health Agency of Canada's SARS-CoV-2 Variants webpage</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  $\leq$  35 are tested for a N501Y mutation. As of March 22, 2021, positive specimens with a Ct  $\leq$  35 are tested for both the N501Y and E484K mutation, with all E484K positive specimens with a Ct  $\leq$  30 forwarded for further genomic analysis. If found to be positive for the N501Y mutation only, no further genomic analysis are performed as these are presumed to be B.1.1.7 (alpha). As of May 26, 2021, cases where an E484K mutation is detected will no longer be reflexed for sequencing as VOC testing labs switched to a representative sampling method where only a proportion of all positives with a Ct  $\leq$  30 are forwarded for further 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  $\leq$  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.
- 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 (Alpha), B.1.351 (Beta), P.1 (Gamma) and B.1.617.2 (Delta)].

#### Data Caveats and Methods: ON-Marg

- ON-Marg is a data tool that combines a wide range of demographic indicators into multiple distinct dimensions of marginalization. It is an area-based index which assigns a measure of marginalization based on neighbourhood versus individual characteristics. As such, the broader demographic trends of an area may not reflect all residents of a neighbourhood owing to the inherent heterogeneity of demographic characteristics which can vary substantially especially across large rural geographies. For more information, please visit <u>PHO's ON-Marg website</u>.
- Neighbourhood diversity is defined using the ethnic concentration dimension of ON-Marg, which measures populations who may experience marginalization related to racism and discrimination. It is based on the proportion of non-white and non-Indigenous residents (visible minority) and/or the proportion of immigrants that arrived in Canada within the past five years. 'Visible minority' is a term used by Statistics Canada that, although is considered to be outdated, is used here to be consistent with the Canadian census.
- Neighbourhood material deprivation is defined using the material deprivation dimension of ON-Marg, which is closely connected to poverty. It refers to the inability of individuals and communities to access and attain basic material needs. The indicators included in this dimension measure income, quality of housing, educational attainment and family structure characteristics.
- "Neighbourhoods" are considered to be Statistic Canada dissemination areas (DA). Cases were
  probabilistically matched to a DA based on their postal code using Statistics Canada's PCCF+
  version 7B file, and subsequently assigned to a quintile of marginalization that contained 20% of
  Ontario neighbourhoods. The quintiles for the ethnic concentration and the material deprivation
  dimensions are ordered from quintiles 1 to 5, with quintile 1 having the lowest level of
  marginalization (i.e., least diverse or least deprived) and quintile 5 having the highest level of
  marginalization (i.e., most diverse or most deprived).
- The following were not included in analyses that summarize the impact of COVID-19 among Ontarians who may experience marginalization:
  - People who have tested positive for COVID-19 that reside in institutional and congregate settings are not included in the census data from which the marginalization indicators (ethnic concentration and material deprivation) are derived. Although these cases represent a large number of cases overall and deaths, their exclusion ensures appropriate comparisons since institutional and congregate setting residents are excluded from ON-Marg.
  - People who have tested positive for COVID-19 that reside in census dissemination areas where data has been suppressed, and cases that have missing or invalid postal codes could not be assigned to a quintile of marginalization.
  - Due to data suppression for some census indicators on Indian Reserves in Ontario, residents of Indian Reserves could not be included in ON-Marg and therefore people who have tested positive for COVID-19 and are living on Indian Reserves could not be assigned to a quintile of marginalization. While Indigenous individuals living off reserves are included in this analysis, Indigeneity data is not currently collected or captured in dimensions of ON-Marg.

- Population counts used in rate denominators were provided by ICES. Individuals alive and eligible for the Ontario Health Insurance Plan (OHIP) as of January 1st, 2021 using the OHIP RPDB were included.
  - Individuals residing in long-term care (LTC) homes were excluded. Recent health care transaction records (e.g., OHIP physician billings, Ontario Drug Benefit [ODB] Plan claims) and Resident Assessment Instrument (RAI) assessments from the Continuing Care Reporting System (CCRS) were used to identify individuals residing in a LTC home near the period prior to the index date.
  - Postal codes were assigned to individuals according to the most recent residential address available in the OHIP RPDB.
- This work is supported by the Applied Health Research Questions (AHRQ) Portfolio at ICES, which is funded by the Ontario Ministry of Health, and Ontario Health Data Platform (OHDP), a Province of Ontario initiative to support Ontario's ongoing response to COVID-19 and its related impacts. Parts of this material are based on data and information compiled and provided by the Ontario Ministry of Health. The analyses, conclusions, opinions and statements expressed herein are solely those of the authors and do not reflect those of ICES, the OHDP or the funding or data sources; no endorsement is intended or should be inferred. For more information on AHRQ and how to submit a request, please visit www.ices.on.ca/DAS/AHRQ.

### Appendix A

Reported Week	Start date	End date	Number of cases	Cumulative count
2	January 5, 2020	January 11, 2020	0	0
3	January 12, 2020	January 18, 2020	0	0
4	January 19, 2020	January 25, 2020	3	3
5	January 26, 2020	February 1, 2020	0	3
6	February 2, 2020	February 8, 2020	0	3
7	February 9, 2020	February 15, 2020	0	3
8	February 16, 2020	February 22, 2020	1	4
9	February 23, 2020	February 29, 2020	13	17
10	March 1, 2020	March 7, 2020	15	32
11	March 8, 2020	March 14, 2020	148	180
12	March 15, 2020	March 21, 2020	447	627
13	March 22, 2020	March 28, 2020	1,325	1,952
14	March 29, 2020	April 4, 2020	2,797	4,749
15	April 5, 2020	April 11, 2020	3,167	7,916
16	April 12, 2020	April 18, 2020	4,263	12,179
17	April 19, 2020	April 25, 2020	3,652	15,831
18	April 26, 2020	May 2, 2020	2,902	18,733
19	May 3, 2020	May 9, 2020	2,353	21,086
20	May 10, 2020	May 16, 2020	2,223	23,309
21	May 17, 2020	May 23, 2020	2,617	25,926
22	May 24, 2020	May 30, 2020	2,611	28,537
23	May 31, 2020	June 6, 2020	2,302	30,839

#### Table 1A. Confirmed cases of COVID-19 by public health unit reported week: Ontario

Reported Week	Start date	End date	Number of cases	Cumulative count
24	June 7, 2020	June 13, 2020	1,472	32,311
25	June 14, 2020	June 20, 2020	1,226	33,537
26	June 21, 2020	June 27, 2020	1,250	34,787
27	June 28, 2020	July 4, 2020	1,085	35,872
28	July 5, 2020	July 11, 2020	866	36,738
29	July 12, 2020	July 18, 2020	931	37,669
30	July 19, 2020	July 25, 2020	993	38,662
31	July 26, 2020	August 1, 2020	808	39,470
32	August 2, 2020	August 8, 2020	592	40,062
33	August 9, 2020	August 15, 2020	610	40,672
34	August 16, 2020	August 22, 2020	728	41,400
35	August 23, 2020	August 29, 2020	852	42,252
36	August 30, 2020	September 5, 2020	976	43,228
37	September 6, 2020	September 12, 2020	1,505	44,733
38	September 13, 2020	September 19, 2020	2,373	47,106
39	September 20, 2020	September 26, 2020	3,124	50,230
40	September 27, 2020	October 3, 2020	4,222	54,452
41	October 4, 2020	October 10, 2020	5,035	59,487
42	October 11, 2020	October 17, 2020	5,277	64,764
43	October 18, 2020	October 24, 2020	6,039	70,803
44	October 25, 2020	October 31, 2020	6,388	77,191
45	November 1, 2020	November 7, 2020	7,603	84,794
46	November 8, 2020	November 14, 2020	10,440	95,234
47	November 15, 2020	November 21, 2020	10,038	105,272
48	November 22, 2020	November 28, 2020	11,135	116,407

Reported Week	Start date	End date	Number of cases	Cumulative count
49	November 29, 2020	December 5, 2020	12,682	129,089
50	December 6, 2020	December 12, 2020	13,059	142,148
51	December 13, 2020	December 19, 2020	15,656	157,804
52	December 20, 2020	December 26, 2020	15,629	173,433
53	December 27, 2020	January 2, 2021	20,444	193,877
1	January 3, 2021	January 9, 2021	24,876	218,753
2	January 10, 2021	January 16, 2021	21,381	240,134
3	January 17, 2021	January 23, 2021	16,397	256,531
4	January 24, 2021	January 30, 2021	12,767	269,298
5	January 31, 2021	February 6, 2021	9,782	279,080
6	February 7, 2021	February 13, 2021	7,899	286,979
7	February 14, 2021	February 20, 2021	7,457	294,436
8	February 21, 2021	February 27, 2021	7,685	302,121
9	February 28, 2021	March 6, 2021	7,934	310,055
10	March 7, 2021	March 13, 2021	9,479	319,534
11	March 14, 2021	March 20, 2021	11,022	330,556
12	March 21, 2021	March 27, 2021	14,387	344,943
13	March 28, 2021	April 3, 2021	18,945	363,888
14	April 4, 2021	April 10, 2021	25,575	389,463
15	April 11, 2021	April 17, 2021	30,892	420,355
16	April 18, 2021	April 24, 2021	28,341	448,696
17	April 25, 2021	May 1, 2021	25,219	473,915
18	May 2, 2021	May 8, 2021	20,758	494,673
19	May 9, 2021	May 15, 2021	16,525	511,198
20	May 16, 2021	May 22, 2021	12,656	523,854

Reported Week	Start date	End date	Number of cases	Cumulative count
21	May 23, 2021	May 29, 2021	7,759	531,613
22	May 30, 2021	June 5, 2021	5,215	536,828
23	June 6, 2021	June 12, 2021	3,482	540,310
24	June 13, 2021	June 19, 2021	2,419	542,729
25	June 20, 2021	June 26, 2021	1,881	544,610
26	June 27, 2021	July 3, 2021	1,473	546,083
27	July 4, 2021	July 10, 2021	1,225	547,308
28	July 11, 2021	July 17, 2021	1,045	548,353
29	July 18, 2021	July 24, 2021	1,110	549,463
30	July 25, 2021	July 31, 2021	1,350	550,813
31	August 1, 2021	August 7, 2021	1,908	552,721
32	August 8, 2021	August 14, 2021	3,172	555,893
33	August 15, 2021	August 21, 2021	4,143	560,036
34	August 22, 2021	August 28, 2021	4,777	564,813
35	August 29, 2021	September 4, 2021	5,182	569,995
36	September 5, 2021	September 11, 2021	5,054	575,049
37	September 12, 2021	September 18, 2021	4,917	579,966
38	September 19, 2021	September 25, 2021	4,385	584,351

#### Table 2A. Confirmed cases of COVID-19 by public health unit and region: Ontario

Public Health Unit Name	Cases reported week 37	Rate per 100,000 population Reported week 37	Cases reported week 38	Rate per 100,000 population Reported week 38
Northwestern Health Unit	12	14.8	12	14.8
Thunder Bay District Health Unit	1	0.6	3	1.9
TOTAL NORTH WEST	13	5.4	15	6.3
Algoma Public Health	14	11.9	6	5.1
North Bay Parry Sound District Health Unit	8	6.2	7	5.4
Porcupine Health Unit	7	8.2	13	15.3
Public Health Sudbury & Districts	48	23.4	28	13.6
Timiskaming Health Unit	1	3.0	8	23.6
TOTAL NORTH EAST	78	13.7	62	10.9
Ottawa Public Health	406	38.9	381	36.5
Eastern Ontario Health Unit	104	48.2	171	79.2
Hastings Prince Edward Public Health	32	18.5	23	13.3
Kingston, Frontenac and Lennox & Addington Public Health	27	12.9	27	12.9
Leeds, Grenville & Lanark District Health Unit	23	12.8	16	8.9
Renfrew County and District Health Unit	3	2.8	4	3.7
TOTAL EASTERN	595	30.8	622	32.2
Durham Region Health Department	206	29.0	188	26.4

Public Health Unit Name	Cases reported week 37	Rate per 100,000 population Reported week 37	Cases reported week 38	Rate per 100,000 population Reported week 38
Haliburton, Kawartha, Pine Ridge District Health Unit	36	18.9	27	14.2
Peel Public Health	558	35.7	505	32.3
Peterborough Public Health	32	21.6	27	18.2
Simcoe Muskoka District Health Unit	140	23.2	106	17.5
York Region Public Health	445	37.1	361	30.1
TOTAL CENTRAL EAST	1,417	32.1	1,214	27.5
Toronto Public Health	1,007	33.7	836	28.0
TOTAL TORONTO	1,007	33.7	836	28.0
Chatham-Kent Public Health	102	95.7	81	76.0
Grey Bruce Health Unit	26	14.8	8	4.5
Huron Perth Public Health	29	19.8	40	27.4
Lambton Public Health	43	32.3	64	48.1
Middlesex-London Health Unit	160	31.3	129	25.3
Southwestern Public Health	70	32.0	28	12.8
Windsor-Essex County Health Unit	309	71.7	264	61.3
TOTAL SOUTH WEST	739	42.9	614	35.6
Brant County Health Unit	89	58.0	79	51.4
City of Hamilton Public Health Services	265	45.6	300	51.6
Haldimand-Norfolk Health Unit	28	23.3	19	15.8
Halton Region Public Health	165	27.0	178	29.2
Niagara Region Public Health	188	39.0	173	35.9

Public Health Unit Name	Cases reported week 37	Rate per 100,000 population Reported week 37	Cases reported week 38	Rate per 100,000 population Reported week 38
Region of Waterloo Public Health and Emergency Services	178	29.4	155	25.6
Wellington-Dufferin-Guelph Public Health	155	49.7	118	37.8
TOTAL CENTRAL WEST	1,068	37.3	1,022	35.7
TOTAL ONTARIO	4,917	33.4	4,385	29.8

**Note:** Interpret information for the most recent week with caution due to reporting lags.

Table 3A. Confirmed COVID-19 variants of concern by public health unit and region: Ontario

Public Health Unit Name	Cumulative case count up to September 25 for Lineage B.1.1.7 (Alpha)*	Cumulative case count up to September 25 for Lineage B.1.351 (Beta)**	Cumulative case count up to September 25 for Lineage P.1 (Gamma)***	Cumulative case count up to September 25 for Lineage B.1.617.2 (Delta)†	Cumulative count up to September 25 for Mutations‡
Northwestern Health Unit	59	0	1	19	16
Thunder Bay District Health Unit	104	1	2	21	74
TOTAL NORTH WEST	163	1	3	40	90
Algoma Public Health	68	0	14	24	26
North Bay Parry Sound District Health Unit	235	28	3	73	13
Porcupine Health Unit	1,108	2	0	68	8
Public Health Sudbury & Districts	689	13	10	53	268
Timiskaming Health Unit	83	1	0	2	0
TOTAL NORTH EAST	2,183	44	27	220	315
Ottawa Public Health	6,849	515	55	542	471
Eastern Ontario Health Unit	664	46	21	100	269
Hastings Prince Edward Public Health	111	0	18	97	393
Kingston, Frontenac and	458	2	35	59	132

Public Health Unit Name	Cumulative case count up to September 25 for Lineage B.1.1.7 (Alpha)*	Cumulative case count up to September 25 for Lineage B.1.351 (Beta)**	Cumulative case count up to September 25 for Lineage P.1 (Gamma)***	Cumulative case count up to September 25 for Lineage B.1.617.2 (Delta)†	Cumulative count up to September 25 for Mutations‡
Lennox & Addington Public Health					
Leeds, Grenville & Lanark District Health Unit	294	19	0	44	44
Renfrew County and District Health Unit	232	8	7	11	12
TOTAL EASTERN	8,608	590	136	853	1,321
Durham Region Health Department	9,523	66	270	718	1,213
Haliburton, Kawartha, Pine Ridge District Health Unit	443	0	23	145	309
Peel Public Health	31,189	163	1,774	2,506	2,854
Peterborough Public Health	630	4	8	100	161
Simcoe Muskoka District Health Unit	4,002	36	173	588	686
York Region Public Health	15,873	79	482	1,529	2,741
TOTAL CENTRAL EAST	61,660	348	2,730	5,586	7,964
Toronto Public Health	46,068	375	1,523	3,827	7,477
TOTAL TORONTO	46,068	375	1,523	3,827	7,477

Public Health Unit Name	Cumulative case count up to September 25 for Lineage B.1.1.7 (Alpha)*	Cumulative case count up to September 25 for Lineage B.1.351 (Beta)**	Cumulative case count up to September 25 for Lineage P.1 (Gamma)***	Cumulative case count up to September 25 for Lineage B.1.617.2 (Delta)†	Cumulative count up to September 25 for Mutations‡
Chatham-Kent Public Health	131	5	16	187	106
Grey Bruce Health Unit	310	0	6	602	55
Huron Perth Public Health	279	0	12	138	28
Lambton Public Health	438	0	18	104	126
Middlesex-London Health Unit	3,384	2	124	736	186
Southwestern Public Health	689	3	21	179	159
Windsor-Essex County Health Unit	1,853	8	19	1,086	138
TOTAL SOUTH WEST	7,084	18	216	3,032	798
Brant County Health Unit	670	2	97	273	507
City of Hamilton Public Health Services	5,065	66	105	1,574	2,093
Haldimand-Norfolk Health Unit	369	3	23	96	408
Halton Region Public Health	5,090	30	169	641	619
Niagara Region Public Health	4,286	4	20	186	1,103
Region of Waterloo Public Health and	3,133	21	98	1,827	256

Public Health Unit Name	Cumulative case count up to September 25 for Lineage B.1.1.7 (Alpha)*	Cumulative case count up to September 25 for Lineage B.1.351 (Beta)**	Cumulative case count up to September 25 for Lineage P.1 (Gamma)***	Cumulative case count up to September 25 for Lineage B.1.617.2 (Delta)†	Cumulative count up to September 25 for Mutations‡
Emergency Services					
Wellington- Dufferin-Guelph Public Health	2,085	1	81	410	177
TOTAL CENTRAL WEST	20,698	127	593	5,007	5,163
TOTAL ONTARIO	146,464	1,503	5,228	18,565	23,128

**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. Data for calculating the cumulative case count uses data from the Investigation Subtype field only. Data for cases with a B.1.1.7 (Alpha), B.1.351 (Beta), P.1 (Gamma) and B.1.617.2 (Delta) lineage detected or a mutation are determined using the Investigation Subtype field only.

\*Includes all confirmed COVID-19 cases where lineage B.1.1.7 (Alpha) was identified by genomic analysis and those presumed to be B.1.1.7 based on a positive N501Y and negative E484K mutation in the Investigation Subtype field. \*\*Includes B.1.351 (Beta) cases identified by genomic analysis and those presumed to be B.1.351 based on 'Mutation K417N+ and N501Y+ and E484K+' in the Investigation Subtype field

\*\*\*Includes P.1 (Gamma) cases identified by genomic analysis and those presumed to be P.1 based on 'Mutation K417T+ and N501Y+ and E484K+' in the Investigation Subtype field

<sup>+</sup>Includes B.1.617.2 (Delta) and AY.3 cases identified by genomic analysis. Mutations common to B.1.617.2 are not included in the current VOC mutation test.

<sup>‡</sup> 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)

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### 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.

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