

Epidemiologic Summary

COVID-19 in Ontario: January 15, 2020 to April 24, 2020

This report includes the most current information available from the integrated Public Health Information System (iPHIS) as of **4 p.m. April 24, 2020** and from the Toronto Public Health Coronavirus Rapid Entry System (CORES) as of **2 p.m. April 24, 2020**.

Purpose

• This daily report provides an epidemiologic summary of COVID-19 activity in Ontario to date.

Highlights

- There are 13,995 confirmed cases of COVID-19 in Ontario reported to date in iPHIS. This represents an increase of 476 confirmed cases from the previous report.
 - 41.6% of cases are male, 57.4% are female.
 - 44.5% of cases are 60 years of age and older.
 - Greater Toronto Area public health units account for 59.4% of cases.
 - 11.6% of cases were hospitalized.
- 811 deaths have been reported (please note there may be a reporting delay for deaths in iPHIS). This is an increase of 48 deaths from the previous report.
- 162 outbreaks have been reported in long-term care homes. This is an increase of 19 outbreaks from the previous report.
- 470 deaths have been reported among residents/patients in long-term care homes. This is an increase of 7 deaths from the previous report.

Case Characteristics

Table 1. Summary of cases of COVID-19: Ontario, January 1	5, 2020 to April 24, 2020
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	Number	Percentage
Number of cases ¹	13,995	N/A
Change from previous report	476	3.5% increase
Gender: Male	5,827	41.6
Gender: Female	8,030	57.4
Ages: 19 and under	309	2.2
Ages: 20-39	3,179	22.7
Ages: 40-59	4,276	30.6
Ages: 60-79	3,108	22.2
Ages: 80 and over	3,114	22.3
Number of cases in health care workers	1,817	13.0

¹ Cases and rates by public health unit are provided in <u>Appendix A</u>.

Note: 138 cases did not specify male or female. Nine cases had an unknown age.

Time

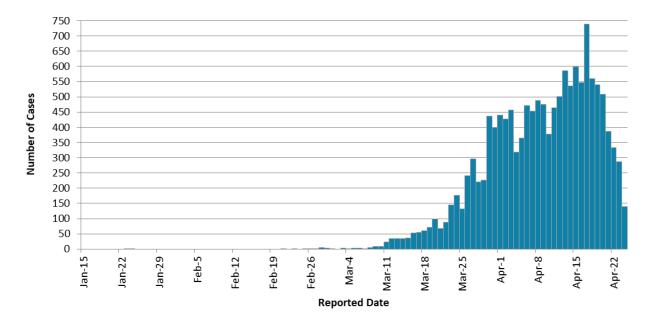


Figure 1. Confirmed cases (n=13,995) of COVID-19 by reported date: Ontario, January 15, 2020 to April 24, 2020¹

¹Interpret case counts for the most recent days (approximately 3 days) with caution due to reporting lags.

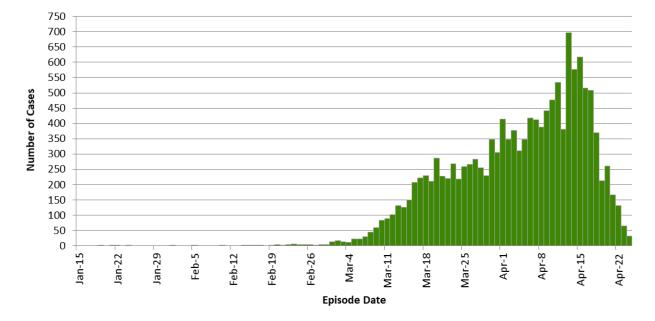
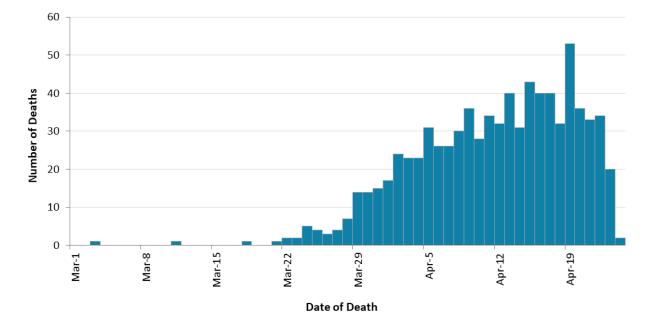


Figure 2. Confirmed cases (n=13,995) of COVID-19 by an approximation of symptom onset date¹: Ontario, January 15, 2020 to April 24, 2020²

¹ This date, referred to as episode date, is intended to approximate symptom onset date. It is calculated based on either the date of symptom onset, specimen collection/test date, or the date reported to public health.

² Interpret case counts for the most recent days (approximately 14 days) with caution due to reporting lags.





¹This count excludes the 3 cases that did not have a date of death reported.

² Interpret case counts for the most recent days with caution due to reporting lags.

Exposure

Table 2. Confirmed cases (n=13,995) of COVID-19 by exposure type: Ontario, January 15, 2020 to April 24, 2020

	Number	Percentage
Travel ¹	1,308	9.3
Close contact of a confirmed case	2,621	18.7
Community transmission	4,891	34.9
Information pending	5,175	37.0

¹Travel within the 14 days prior to becoming ill.

Severity

Table 3. Confirmed cases (n=13,995) of COVID-19 by severity: Ontario, January 15, 2020 to April 24, 2020

	Number	Percentage
Cumulative deaths reported (please note there may be a reporting delay for deaths in iPHIS)	811	5.8
Change from previous report	48	6.3% increase
Deaths reported in ages: 19 and under	0	0
Deaths reported in ages: 20-39	3	0.1
Deaths reported in ages: 40-59	39	0.9
Deaths reported in ages: 60-79	221	7.1
Deaths reported in ages: 80 and over	548	17.6
Cumulative intensive care ¹	414	3.0
Cumulative hospitalized ¹	1,617	11.6
Number of resolved ² cases	7,509	53.7

¹ These refer to all hospitalized or ICU admitted cases, not cases that are currently hospitalized or in ICU.

² Cases that are 14 days past symptom onset (if available) or 14 days past the episode date are classified as resolved for non-fatal cases that are not currently listed as hospitalized. Cases are also classified as resolved if the case is reported as "recovered" in iPHIS.

Geography

Figure 4. Confirmed cases (n=13,995) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 24, 2020

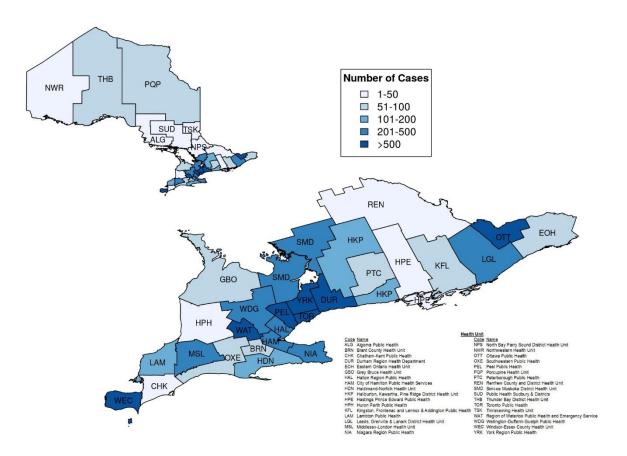
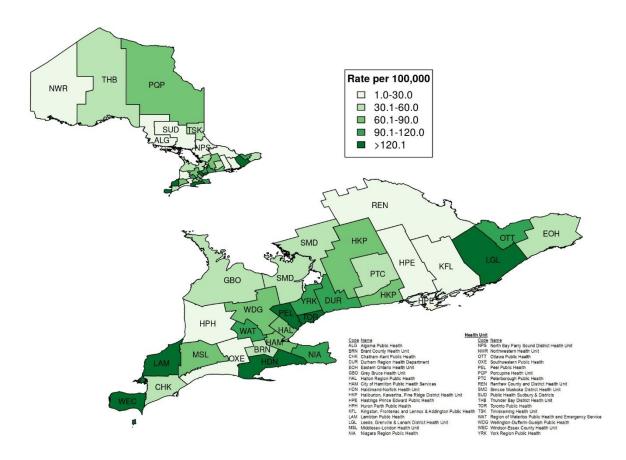


Figure 5. Rate of confirmed cases of COVID-19 by public health unit: Ontario, January 15, 2020 to April 24, 2020



Outbreaks in Institutions and Public Hospitals

Table 4. Confirmed COVID-19 outbreaks reported in long-term care homes and hospitals andtotal number of associated cases: Ontario, January 15, 2020 to April 24, 2020

Indicator	Long-Term Care Homes	Hospitals
Number of confirmed COVID-19 outbreaks	162	50
Total number of cases ^{1,2} reported as part of the confirmed COVID-19 outbreaks	3,205	282
Cases reported among residents/patients	2,236	157
Cases reported among staff	965	122
Total number of deaths ^{1,2} reported as part of the confirmed COVID-19 outbreaks	471	17
Deaths reported among residents/patients	470	17
Deaths reported among staff	1	0

¹ Includes all outbreak-related cases and deaths reported in aggregate outbreak summary counts, regardless of whether the case was laboratory confirmed (deaths among non-laboratory confirmed cases reported here are not included in Table 3).

² May include cases and deaths other than residents/patients or staff, such as volunteers. As a result, the total number of cases and deaths may be greater than the number of cases and deaths reported in residents or staff.

Data Source: integrated Public Health Information System (iPHIS) database.

Technical Notes

Data Sources (Case Data)

- The data for this report were based on information extracted from the Ontario Ministry of Health (MOH) integrated Public Health Information System (iPHIS) database, as of April 24, 2020 at 4 p.m. and data extracted from the Toronto Public Health (Coronavirus Rapid Entry System) CORES, as of April 24, 2020 at 2 p.m.
- iPHIS and CORES are dynamic disease reporting systems, which allows ongoing updates to data previously entered. As a result, data extracted from iPHIS and CORES 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 Ontario Ministry of Health, IntelliHEALTH Ontario. Data were extracted on November 26, 2019.

Data Caveats:

- The data only represent cases reported to public health and recorded in iPHIS and CORES. 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 iPHIS and CORES data entry due to reduced holiday and weekend staffing may result in lower case counts than would otherwise be recorded.
- Only cases meeting the confirmed case classification as listed in the MOH <u>COVID-19 case</u> <u>definition</u> are included in the report counts from iPHIS or CORES.
- 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 public health.
- Orientation of case counts by geography is based on the diagnosing health unit (DHU). DHU
 refers to the case's public health unit of residence at the time of illness onset and not
 necessarily the location of exposure. Cases for which the DHU was reported as MOH (to signify a
 case that is not a resident of Ontario) have been excluded from the analyses.
 - GTA health units include: Durham Region Health Department, Peel Public Health, Toronto Public Health and York Region Public Health
- Exposure type is determined by examining the exposure and risk factor fields from iPHIS to determine whether a case travelled, was a contact of a case or neither. A hierarchy has been applied as follows: Travel-related > Close contact of a confirmed case > Community transmission > Information pending.
- Exposure type is determined from CORES by examining the risk factor fields from CORES to determine whether a case travelled, was a contact of a case or neither. A hierarchy has been

applied as follows: Travel-related > Close contact of a confirmed case > Community transmission > Information pending

- Deaths are determined by using the outcome field in iPHIS. Any case marked 'Fatal' is included in the deaths data. Deaths are included whether or not COVID-19 was determined to be a contributing or underlying cause of death as indicated in the iPHIS field Type of Death.
 - The date of death is determined using the outcome date field for cases marked as 'Fatal' in the outcome field.
- iPHIS cases for which the Disposition Status was reported as ENTERED IN ERROR, DOES NOT MEET DEFINITION, DUPLICATE-DO NOT USE, or any variation on these values have been excluded.
- To provide a measure of the impact of COVID-19 on long-term care homes and hospitals, the number of outbreaks and the associated cases are reported. To obtain the case and deaths data for these outbreaks, the aggregate counts recorded by public health units in the outbreak's summary counts section of iPHIS is used. This information is presented in table 4.
 - Previously only a select number of persons in institutional outbreaks would be tested for COVID-19, and there could still be circumstances where not all individuals end up being tested (e.g., the person dies before they can be tested).
 - These counts may not be updated as frequently as the information for laboratory-confirmed cases.
 - The information in the aggregate counts can not necessarily be reconciled with the laboratory-confirmed case data.

Appendix A

Table 1. Confirmed cases (n=13,995) of COVID-19 by public health unit: Ontario, January 15,2020 to April 24, 2020

Public Health Unit Name	Cases	Rate per 100,000 population
Northwestern Health Unit	15	17.1
Thunder Bay District Health Unit	63	42
TOTAL NORTH WEST	78	32.8
Algoma Public Health	12	10.5
North Bay Parry Sound District Health Unit	14	10.8
Porcupine Health Unit	55	65.9
Public Health Sudbury & Districts	50	25.1
Timiskaming Health Unit	12	36.7
TOTAL NORTH EAST	143	25.6
Ottawa Public Health	1033	97.9
Eastern Ontario Health Unit	79	37.9
Hastings Prince Edward Public Health	39	23.1
Kingston, Frontenac and Lennox & Addington Public Health	58	27.3
Leeds, Grenville & Lanark District Health Unit	291	168
Renfrew County and District Health Unit	14	12.9
TOTAL EASTERN	1514	78.6
Durham Region Health Department	806	113.1
Haliburton, Kawartha, Pine Ridge District Health Unit	141	74.6
Peel Public Health	2039	127

Public Health Unit Name	Cases	Rate per 100,000 population
Peterborough Public Health	62	41.9
Simcoe Muskoka District Health Unit	240	40
York Region Public Health	1289	105.2
TOTAL CENTRAL EAST	4577	102.2
Toronto Public Health	4175	133.8
TOTAL TORONTO	4175	133.8
Chatham-Kent Public Health	41	38.6
Grey Bruce Health Unit	68	40
Huron Perth Public Health	38	27.2
Lambton Public Health	162	123.7
Middlesex-London Health Unit	370	72.9
Southwestern Public Health	51	24.1
Windsor-Essex County Health Unit	528	124.3
TOTAL SOUTH WEST	1258	74.4
Brant County Health Unit	92	59.3
City of Hamilton Public Health Services	377	63.7
Haldimand-Norfolk Health Unit	170	149
Halton Region Public Health	413	66.7
Niagara Region Public Health	431	91.2
Region of Waterloo Public Health and Emergency Services	530	90.7
Wellington-Dufferin-Guelph Public Health	237	76
TOTAL CENTRAL WEST	2250	79
TOTAL ONTARIO	13995	94.2

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For Further Information

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

Public Health Ontario

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