

Epidemiologic Summary

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

This report includes the most current information available from the integrated Public Health Information System (iPHIS) as of **4 p.m. April 29, 2020,** from the Toronto Public Health Coronavirus Rapid Entry System (CORES) and Ottawa Public Health COVID-19 Ottawa Database (COD) as of **2 p.m. April 29, 2020.**

Purpose

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

Highlights

- There are 16,187 confirmed cases of COVID-19 in Ontario reported to date. This represents an increase of 459 confirmed cases from the previous report.
 - 41.7% of cases are male, 57.3% are female.
 - 44.8% of cases are 60 years of age and older.
 - Greater Toronto Area public health units account for 59.5% of cases.
 - 11.6% of cases were hospitalized.
- 1,082 deaths have been reported (please note there may be a reporting delay for deaths in iPHIS). This is an increase of 86 deaths from the previous report.
- 190 outbreaks have been reported in long-term care homes. This is an increase of 9 outbreaks from the previous report.
- 530 deaths have been reported among residents/patients in long-term care homes. This is an increase of 9 deaths from the previous report.

Case Characteristics

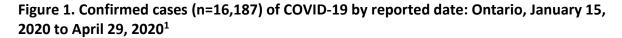
Table 1. Summary of cases of COVID-19: Ontario, January 15, 2020 to April 29, 2020

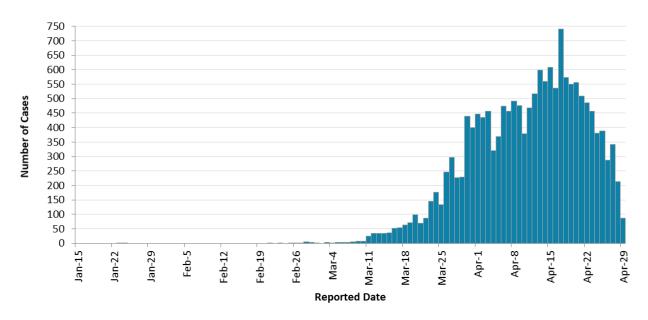
	Number	Percentage
Number of cases ¹	16,187	N/A
Change from previous report	459	2.9% increase
Gender: Male	6,754	41.7
Gender: Female	9,280	57.3
Ages: 19 and under	371	2.3
Ages: 20-39	3,693	22.8
Ages: 40-59	4,871	30.1
Ages: 60-79	3,581	22.1
Ages: 80 and over	3,664	22.6
Number of cases in health care workers	2,292	14.2

¹ Cases and rates by public health units are provided in Appendix A.

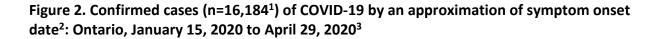
Note: 153 cases did not specify male or female. Seven cases had an unknown age.

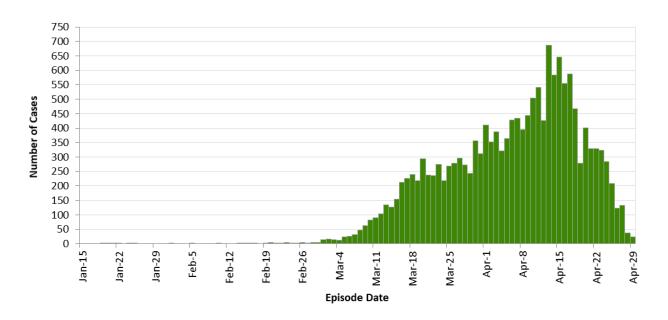
Time





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



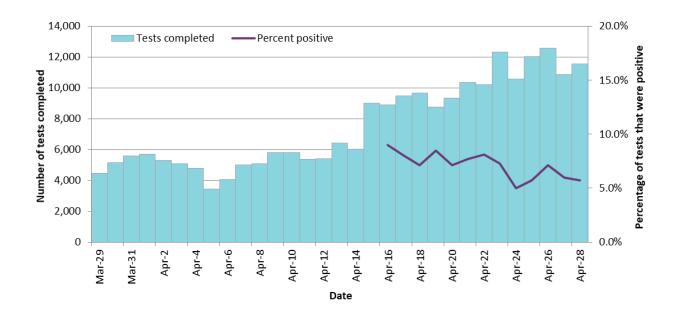


¹ This count excludes 3 cases that did not have an episode date reported.

² 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.

³ Interpret case counts for the most recent days (approximately 14 days) with caution due to reporting lags.

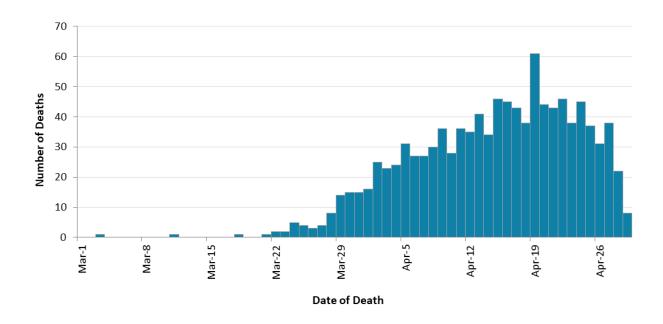
Figure 3. Number of COVID-19 tests completed¹ and percent positivity: Ontario, March 29, 2020 to April 28, 2020



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

¹The 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.

Figure 4. Confirmed deaths (n=1,074¹) among COVID-19 cases by date of death: Ontario, March 1, 2020 to April 29, 2020²



¹This count excludes 8 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=16,187) of COVID-19 by exposure type: Ontario, January 15, 2020 to April 29, 2020

	Number	Percentage
Travel ¹	1,197	7.4
Close contact of a confirmed case	3,291	20.3
Community transmission	5,684	35.1
Information pending	6,015	37.2

¹Travel within the 14 days prior to becoming ill.

Severity

Table 3. Confirmed cases (n=16,187) of COVID-19 by severity: Ontario, January 15, 2020 to April 29, 2020

	Number	Percentage
Cumulative deaths reported (please note there may be a reporting delay for deaths in iPHIS)	1,082	6.3
Change from previous report	86	8.6% increase
Deaths reported in ages: 19 and under	0	0.0
Deaths reported in ages: 20-39	7	0.2
Deaths reported in ages: 40-59	49	1.0
Deaths reported in ages: 60-79	282	7.9
Deaths reported in ages: 80 and over	744	20.3
Cumulative intensive care ¹	457	2.8
Cumulative hospitalized ¹	1,881	11.6
Number of resolved ² cases	10,205	63.0

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 5. Confirmed cases (n=16,187) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 29, 2020

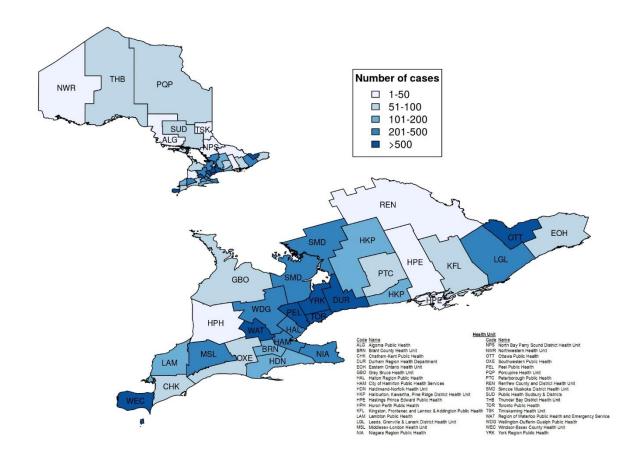
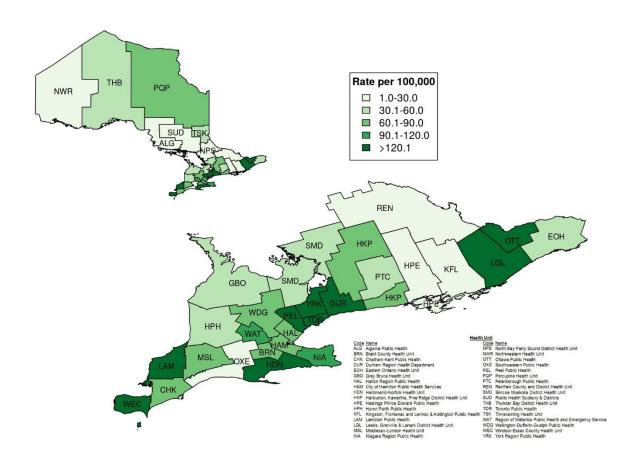


Figure 6. Rate of confirmed cases of COVID-19 by public health unit: Ontario, January 15, 2020 to April 29, 2020



Outbreaks in Institutions and Public Hospitals

Table 4. Confirmed COVID-19 outbreaks reported in long-term care homes, retirement homes and hospitals and total number of associated cases: Ontario, January 15, 2020 to April 29, 2020

Indicator	Long-Term Care Homes	Retirement Homes	Hospitals
Cumulative number of confirmed COVID-19 outbreaks	190	70	57
Total number of cases ^{1,2,3} reported as part of the confirmed COVID-19 outbreaks	3,538	701	523
Cases reported among residents/patients	2,385	456	241
Cases reported among staff	1,148	245	279
Total number of deaths ^{1,2,3} reported as part of the confirmed COVID-19 outbreaks	531	83	41
Deaths reported among residents/patients	530	83	41
Deaths reported among staff	1	0	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).

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

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.

³ Counts may fluctuate from previous reports due to updates made by health units as additional information about the outbreak is reported.

Technical Notes

Data Sources

- 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 29, 2020 at 4 p.m.**
 - Information successfully uploaded to the Ministry from Local Systems: the Toronto Public Health (Coronavirus Rapid Entry System) CORES and Ottawa Public Health COVID-19 Ottawa Database (COD), as of April 29, 2020 at 2 p.m.
- iPHIS, CORES and COD are dynamic disease reporting systems, which allows ongoing updates to data previously entered. As a result, data extracted from iPHIS and the Local Systems 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.
- 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 and recorded in iPHIS and the Local Systems (e.g., CORES, COD). 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 Local Systems 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 the Local Systems.
- 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 Local Systems by examining the risk factor fields from Local Systems 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 or Local Systems. 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=16,187) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 29, 2020

Public Health Unit Name	Cases	Rate per 100,000 population
Northwestern Health Unit	15	17.1
Thunder Bay District Health Unit	71	47.3
TOTAL NORTH WEST	86	36.2
Algoma Public Health	13	11.4
North Bay Parry Sound District Health Unit	14	10.8
Porcupine Health Unit	59	70.7
Public Health Sudbury & Districts	57	28.6
Timiskaming Health Unit	12	36.7
TOTAL NORTH EAST	155	27.7
Ottawa Public Health	1,310	124.2
Eastern Ontario Health Unit	91	43.6
Hastings Prince Edward Public Health	42	24.9
Kingston, Frontenac and Lennox & Addington Public Health	60	28.2
Leeds, Grenville & Lanark District Health Unit	314	181.3
Renfrew County and District Health Unit	15	13.8
TOTAL EASTERN	1,832	95.1
Durham Region Health Department	936	131.4
Haliburton, Kawartha, Pine Ridge District Health Unit	157	83.1
Peel Public Health	2,297	143.0

Public Health Unit Name	Cases	Rate per 100,000 population
Peterborough Public Health	86	58.1
Simcoe Muskoka District Health Unit	271	45.2
York Region Public Health	1,490	121.6
TOTAL CENTRAL EAST	5,237	116.9
Toronto Public Health	4,901	157.1
TOTAL TORONTO	4,901	157.1
Chatham-Kent Public Health	82	77.1
Grey Bruce Health Unit	77	45.3
Huron Perth Public Health	45	32.2
Lambton Public Health	180	137.4
Middlesex-London Health Unit	401	79.0
Southwestern Public Health	57	27.0
Windsor-Essex County Health Unit	579	136.3
TOTAL SOUTH WEST	1,421	84.0
Brant County Health Unit	101	65.1
City of Hamilton Public Health Services	415	70.1
Haldimand-Norfolk Health Unit	177	155.2
Halton Region Public Health	452	73.0
Niagara Region Public Health	481	101.8
Region of Waterloo Public Health and Emergency Services	659	112.8
Wellington-Dufferin-Guelph Public Health	270	86.6
TOTAL CENTRAL WEST	2,555	89.7
TOTAL ONTARIO	16,187	108.9

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For Further Information

For more information, email cd@oahpp.ca.

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