

Epidemiological Summary

COVID-19 in Ontario: January 15, 2020 to April 7, 2020

This report includes the most current information available from the integrated Public Health Information System (iPHIS) as of **4 p.m. April 7, 2020**.

Purpose

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

Highlights

- There are 5,276 confirmed cases of COVID-19 in Ontario reported to date in iPHIS. This represents an increase of 550 confirmed cases from the previous report.
 - 46.1% of cases are male, 53.3% are female.
 - 36.4% of cases are 60 years of age and older.
 - Greater Toronto Area public health units account for 51.8% of cases.
- 12.4% of cases were hospitalized
- 174 deaths have been reported (please note there may be a reporting delay for deaths in iPHIS). This is an increase of 21 deaths from the previous report.
- Fifty-eight outbreaks have been reported in long-term care homes.

Case characteristics

Table 1. Summary of cases of COVID-19: Ontario, January 15, 2020 to April 7, 2020

	Number	Percentage
Number of cases*	5,276	N/A
Change from previous report	550	11.6% increase
Gender: Male	2,433	46.1
Gender: Female	2,810	53.3
Ages: 19 and under	129	2.4
Ages: 20-39	1,369	25.9
Ages: 40-59	1,851	35.1
Ages: 60-79	1,300	24.6
Ages: 80 and over	624	11.8
Number of cases in health care workers	580	11.0

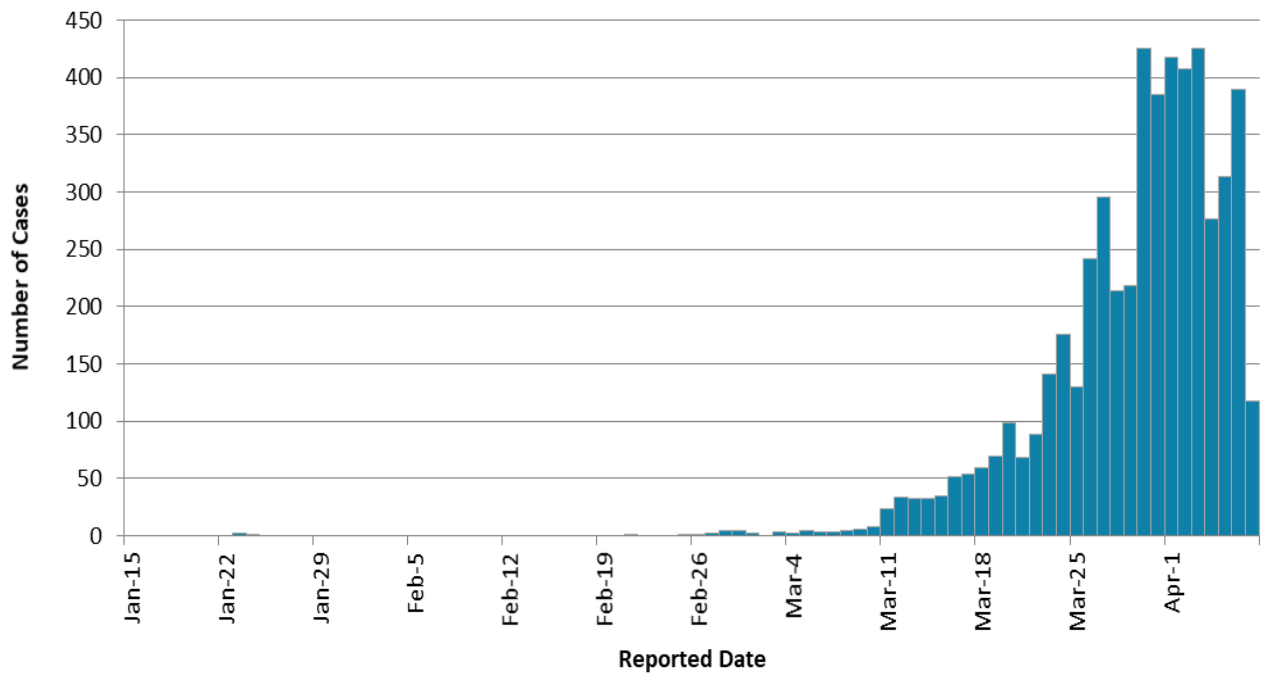
* Cases and rates by public health unit is provided in [Appendix A](#).

Note: 33 cases did not specify male or female. The age of three cases were unknown.

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

Time

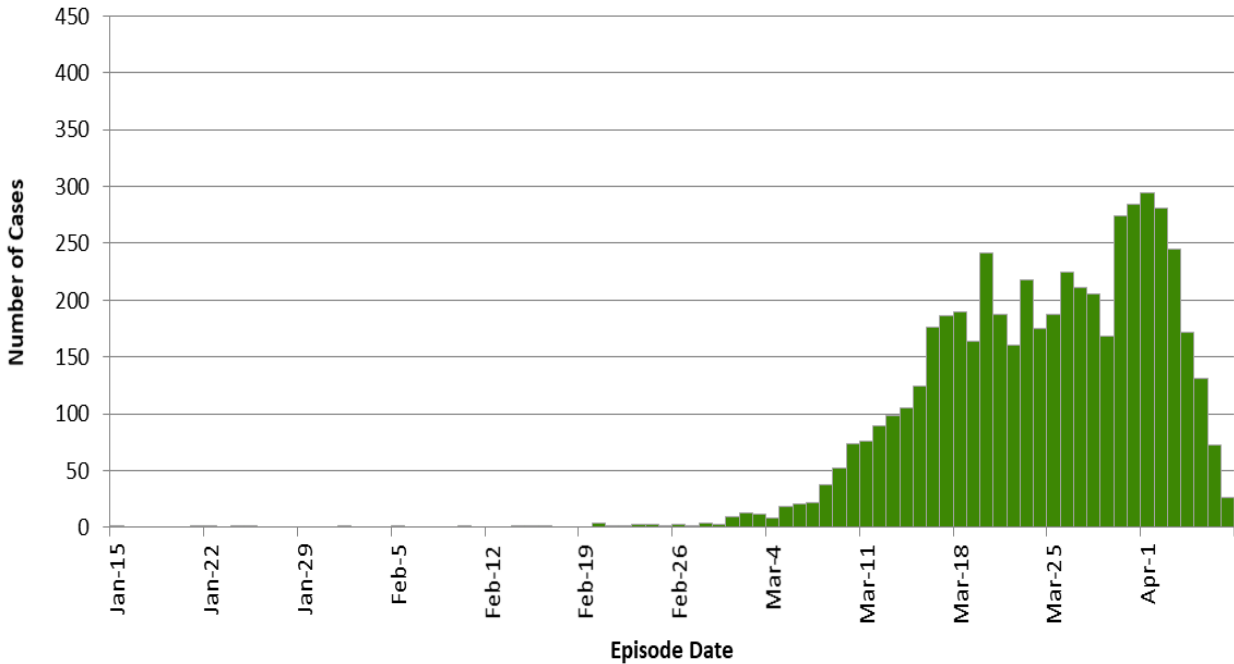
Figure 1. Confirmed cases (n=5,276) of COVID-19 by reported date: Ontario, January 15, 2020 to April 7, 2020*



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

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

Figure 2. Confirmed cases (n=5,276) of COVID-19 by an approximation of symptom onset date*: Ontario, January 15, 2020 to April 7, 2020**



* 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.

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

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

Exposure

Table 2. Confirmed cases (n=5,276) of COVID-19 by exposure type: Ontario, January 15, 2020 to April 7, 2020

	Number	Percentage
Travel*	968	18.3
Close contact of a confirmed case	797	15.1
Community transmission	1,027	19.5
Information pending	2,484	47.1

*Travel within the 14 days prior to becoming ill; travel locations are provided in [Appendix A](#).

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

Severity

Table 3. Confirmed cases (n=5,276) of COVID-19 by severity: Ontario, January 15, 2020 to April 7, 2020

	Number	Percentage
Cumulative hospitalized*	656	12.4
Cumulative intensive care*	190	3.6
Cumulative deaths reported (please note there may be a reporting delay for deaths in iPHIS)	174	3.3
Deaths reported in ages: 19 and under	0	0.0
Deaths reported in ages: 20-39	1	0.1
Deaths reported in ages: 40-59	9	0.5
Deaths reported in ages: 60-79	60	4.6
Deaths reported in ages: 80 and over	104	16.7
Number of resolved** cases	2,074	39.3

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

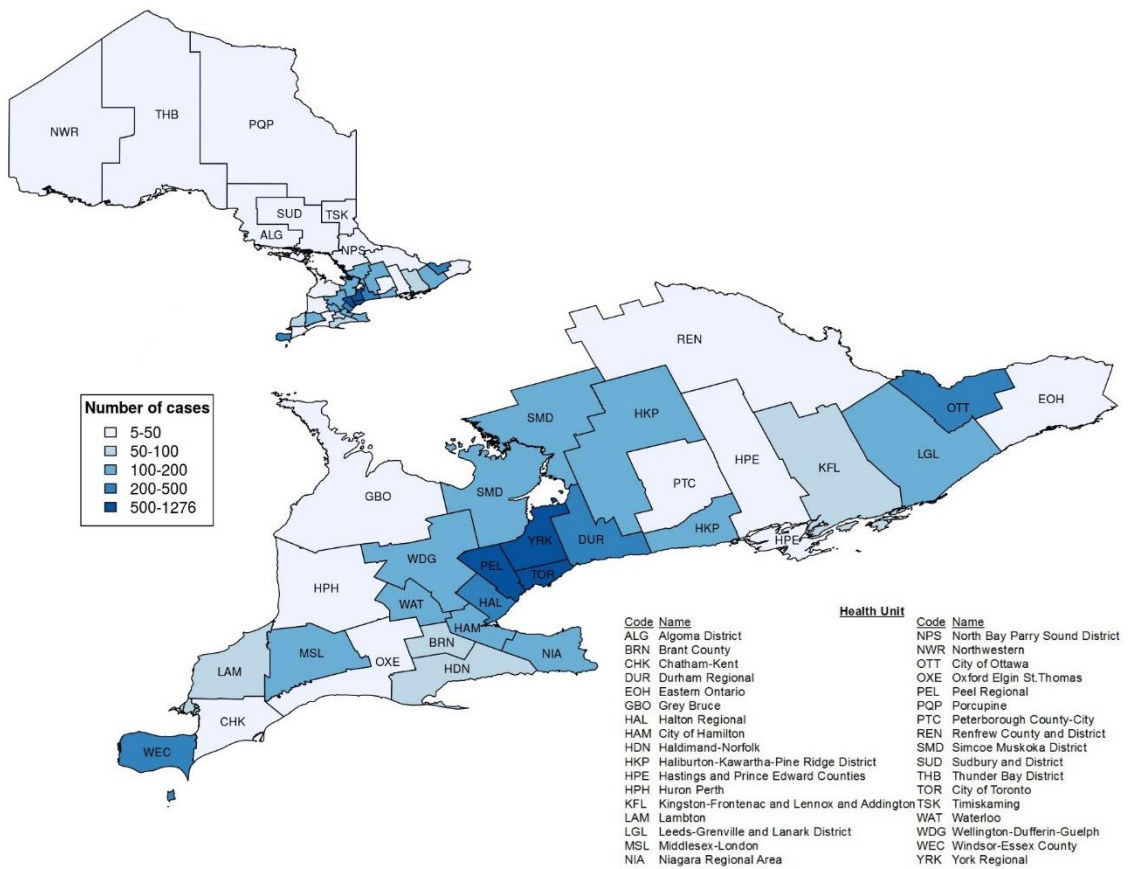
* These refer to all hospitalized or ICU admitted cases, not cases that are currently hospitalized or in ICU.

** Cases that are 14 days past symptom onset (if available) or 14 days past the episode date (for cases for whom the public health unit investigation is complete) 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 3. Confirmed cases (n=5,276) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 7, 2020



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

Outbreaks in institutions and public hospitals

Table 4. Confirmed COVID-19 outbreaks reported in long-term care homes and hospitals and total number of associated cases: Ontario, January 15, 2020 to April 7, 2020

Indicator	Long-Term Care Homes	Hospitals
Number of confirmed COVID-19 outbreaks	58	14
Total number of cases*,** reported as part of the confirmed COVID-19 outbreaks	827	71
Cases reported among residents/patients	464	38
Cases reported among staff	351	33
Total number of deaths*,** reported as part of the confirmed COVID-19 outbreaks	78	5
Deaths reported among residents/patients	76	5
Deaths reported among staff	0	0

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

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

**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.

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 7, 2020 at 4 p.m.**
- iPHIS is a dynamic disease reporting system, which allows ongoing updates to data previously entered. As a result, data extracted from iPHIS 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.

iPHIS data caveats:

- The data only represent cases reported to public health and recorded in iPHIS. 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.
- Only cases meeting the confirmed case classification as listed in the MOH [COVID-19 case definition](#) are included in the report counts.
- 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.
- Deaths are determined by using the outcome field in iPHIS. Any case marked 'Fatal' is included in the deaths data.
- 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.

Appendix A

Table 1. Confirmed cases (n=5,276) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 7, 2020

Public Health Unit Name	Cases	Rate per 100,000 population
Algoma Public Health	9	7.9
Brant County Health Unit	52	33.5
Chatham-Kent Public Health	17	16.0
City of Hamilton Public Health Services	180	30.4
Durham Region Health Department	269	37.8
Eastern Ontario Health Unit	46	22.0
Grey Bruce Health Unit	27	15.9
Haldimand-Norfolk Health Unit	92	80.6
Haliburton, Kawartha, Pine Ridge District Health Unit	101	53.5
Halton Region Public Health	222	35.9
Hastings Prince Edward Public Health	24	14.2
Huron Perth Public Health	22	15.7
Kingston, Frontenac and Lennox & Addington Public Health	53	24.9
Lambton Public Health	83	63.4
Leeds, Grenville & Lanark District Health Unit	117	67.6
Middlesex-London Health Unit	148	29.2
Niagara Region Public Health	177	37.5
North Bay Parry Sound District Health Unit	5	3.9
Northwestern Health Unit	6	6.8
Ottawa Public Health	408	38.7

Public Health Unit Name	Cases	Rate per 100,000 population
Peel Public Health	677	42.2
Peterborough Public Health	42	28.4
Porcupine Health Unit	31	37.2
Public Health Sudbury & Districts	26	13.1
Region of Waterloo Public Health and Emergency Services	178	30.5
Renfrew County and District Health Unit	10	9.2
Simcoe Muskoka District Health Unit	106	17.7
Southwestern Public Health	23	10.9
Thunder Bay District Health Unit	17	11.3
Timiskaming Health Unit	5	15.3
Toronto Public Health	1,276	40.9
Wellington-Dufferin-Guelph Public Health	113	36.2
Windsor-Essex County Health Unit	201	47.3
York Region Public Health	513	41.9
Ontario	5,276	35.5

Table 2. Confirmed cases (n=968) of COVID-19 with travel history* by location: Ontario, January 15, 2020 to April 7, 2020

Location travelled to**	Cases
United States	318
United Kingdom	101
Cruise	55
Mexico	49
Spain	46
Germany	34
France	31
Quebec	27
Portugal	23
Austria	20
Switzerland	19
Philippines	18
Iran	17
Egypt	14
India	14
Cuba	13
Ireland	12
British Columbia	11
Netherlands	11
Colombia	10
Peru	10
Dominican Republic	8

Location travelled to**	Cases
Italy	7
United Arab Emirates	7
Brazil	6
Morocco	6
Pakistan	6
China	5
Australia	4
Bahamas	4
Costa Rica	4
Nova Scotia	4
Alberta	3
Aruba	3
Barbados	3
Denmark	3
Ecuador	3
Israel	3
Jamaica	3
Jordan	3
New Zealand	3
Saint Martin	3
Singapore	3
Turkey	3
Bolivia	2
Manitoba	2

Location travelled to**	Cases
Panama	2
Russian Federation	2
Trinidad And Tobago	2
Viet Nam	2
Argentina	1
Bangladesh	1
Belgium	1
Bulgaria	1
Cayman Islands	1
Côte D'Ivoire	1
Haiti	1
Hong Kong	1
Iceland	1
Japan	1
Lebanon	1
Malta	1
Qatar	1
Saskatchewan	1
South Africa	1
South Korea	1
State of Palestine	1
Sweden	1
Tahiti	1
Uganda	1

* Travel within the 14 days prior to symptom onset.

** Cases may report travel exposures for more than one country, or may report travel as a risk factor without specifying the location. Because of this, the sum of the counts in this table may not add to the number of cases with travel exposure.

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For Further Information

For more information, email cd@oahpp.ca.

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