

Epidemiological Summary

COVID-19 in Ontario: January 15, 2020 to April 5, 2020

This report includes the most current information available from the integrated Public Health Information System (iPHIS) as of **4 p.m. April 5, 2020**

Purpose

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

Highlights

- There are 4,347 confirmed cases of COVID-19 in Ontario reported to date in iPHIS. This represents an increase of 309 confirmed cases from the previous report.
 - 47.3% of cases are male, 52.2% are female.
 - 35.2% of cases are 60 years of age and older.
 - Greater Toronto Area public health units account for 51.9% of cases.
- Of all cases, 19.8% had travelled in the 14 days prior to becoming ill, 13.0% had close contact with a confirmed case, 19.3% had community exposure and 47.9% have exposure information pending.
- 12.4% of cases were hospitalized and 132 deaths have been reported (please note there may be a reporting delay for deaths in iPHIS).
- Forty-six 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 5, 2020

	Number	Percentage
Number of cases*	4,347	N/A
Change from previous report	309	7.7% increase
Gender: Male	2,054	47.3
Gender: Female	2,269	52.2
Ages: 19 and under	107	2.5
Ages: 20-39	1,167	26.8
Ages: 40-59	1,537	35.4
Ages: 60-79	1,077	24.8
Ages: 80 and over	455	10.5
Number of cases in health care workers	451	10.4

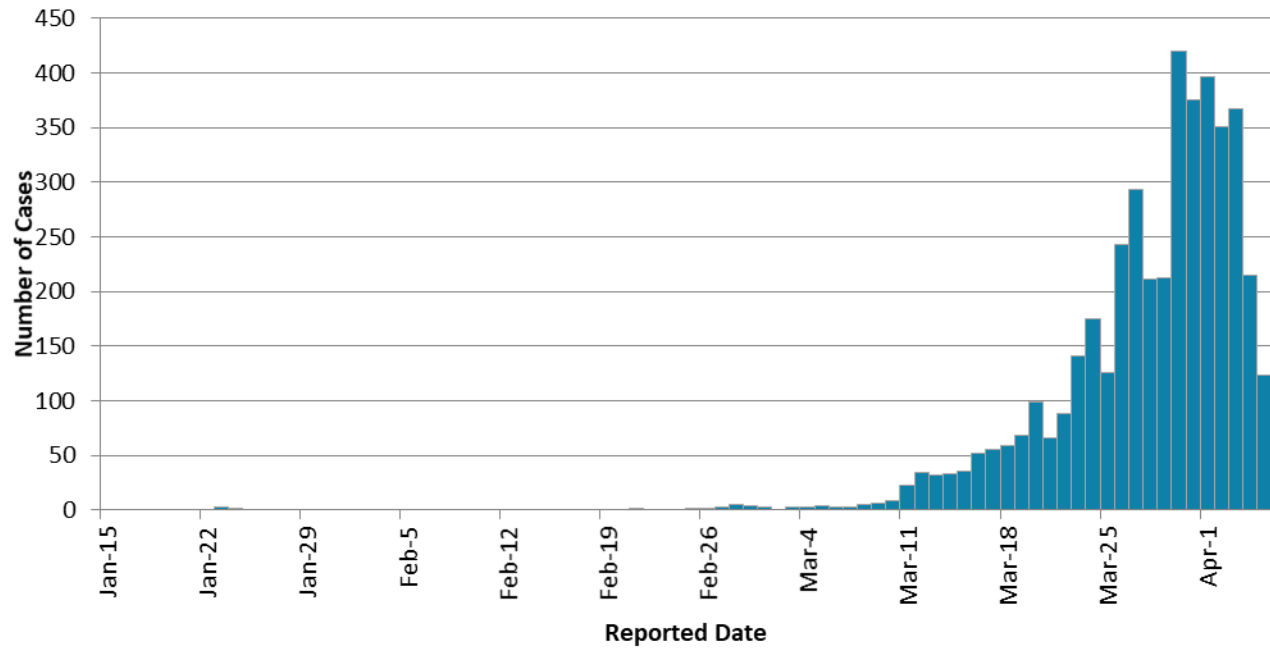
* Cases and rates by public health unit is provided in Appendix A.

Note: 24 cases did not specify male or female. The age of four cases were unknown.

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

Time

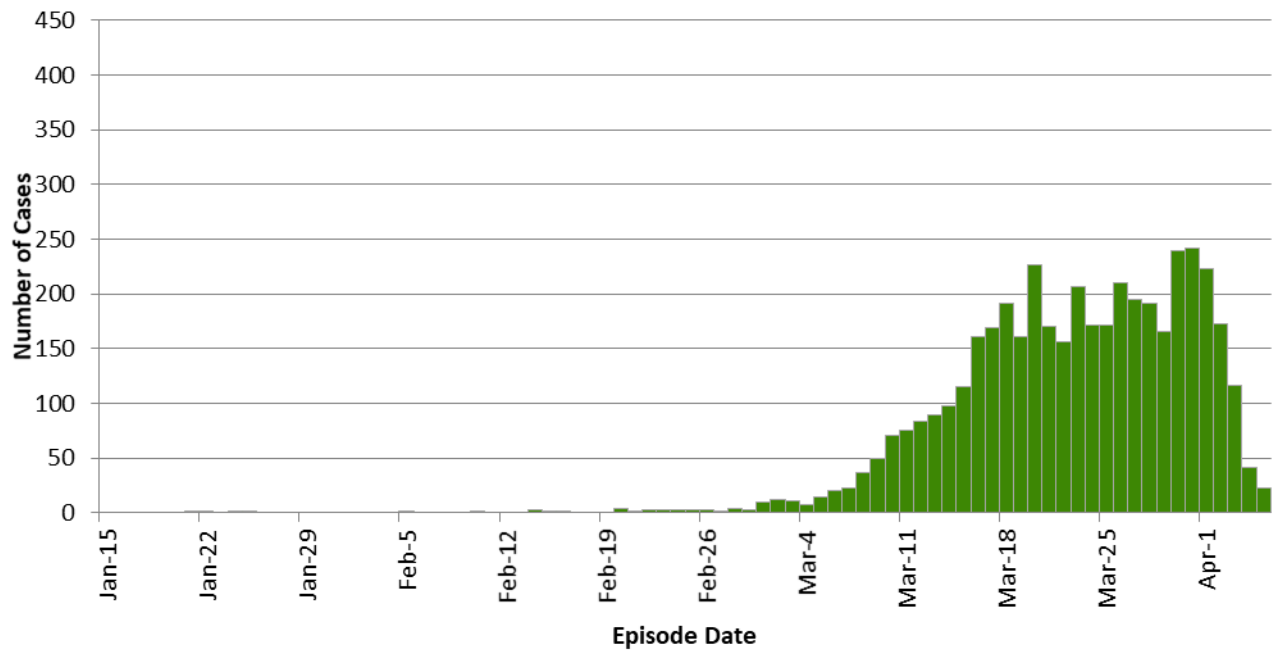
Figure 1. Confirmed cases (n=4,347) of COVID-19 by reported date: Ontario, January 15, 2020 to April 5, 2020*



*Interpret case counts for the most recent days with caution due to lags in data entry.

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

Figure 2. Confirmed cases (n=4,347) of COVID-19 by episode date: Ontario, January 15, 2020 to April 5, 2020*



*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=4,347) of COVID-19 by exposure type: Ontario, January 15, 2020 to April 5, 2020

	Number	Percentage
Travel*	861	19.8
Close contact of a confirmed case	567	13.0
Community transmission	837	19.3
Information pending	2,082	47.9

* 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=4,347) of COVID-19 by severity: Ontario, January 15, 2020 to April 5, 2020

	Number	Percentage
Cumulative hospitalized*	538	12.4
Cumulative intensive care*	157	3.6
Cumulative deaths reported (please note there may be a reporting delay for deaths in iPHIS)	132	3.0
Deaths reported in ages: 19 and under	0	0.0
Deaths reported in ages: 20-39	0	0.0
Deaths reported in ages: 40-59	9	0.6
Deaths reported in ages: 60-79	48	4.5
Deaths reported in ages: 80 and over	75	16.5
Number of resolved** cases	1,624	37.4

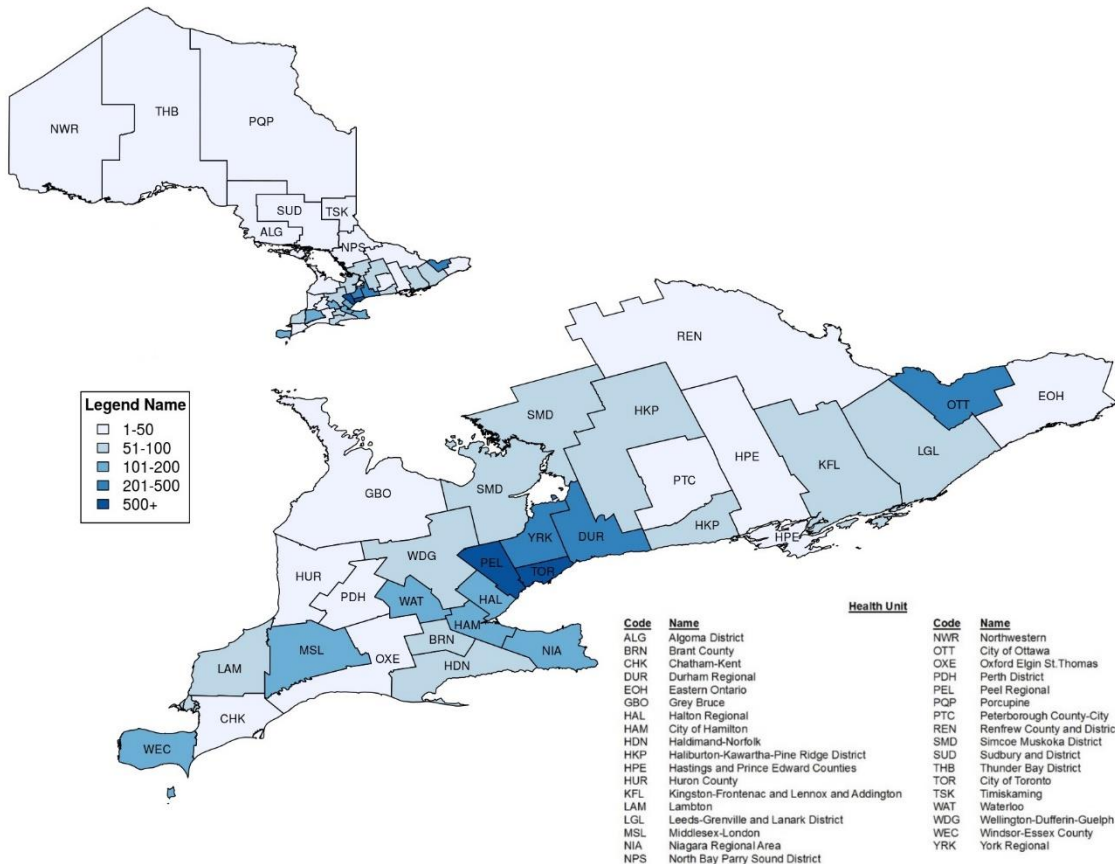
Data Source: integrated Public Health Information System (iPHIS) database

* 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 closed cases) 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=4,347) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 5, 2020



Note: Recently merged Huron Perth Public Health has case counts reported separately under Perth District Health Unit and Huron County Health Unit

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 5, 2020

Indicator	Long-Term Care Homes	Hospitals
Number of confirmed COVID-19 outbreaks	46	10
Total number of cases** reported as part of the confirmed COVID-19 outbreaks	745	89
Cases reported among residents/patients**	456	38
Cases reported among staff**	280	51
Total number of deaths** reported as part of the confirmed COVID-19 outbreaks	56	4
Deaths reported among residents/patients**	54	4
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/patients 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 5, 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.

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 > Neither > Information pending.
- 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=4,347) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 5, 2020

Public Health Unit Name	Cases	Rate per 100,000 population
Algoma Public Health	8	7.0
Brant County Health Unit	51	32.9
Chatham-Kent Public Health	12	11.3
City of Hamilton Public Health Services	163	27.5
Durham Region Health Department	235	33
Eastern Ontario Health Unit	43	20.6
Grey Bruce Health Unit	19	11.2
Haldimand-Norfolk Health Unit	65	57.0
Haliburton, Kawartha, Pine Ridge District Health Unit	98	51.9
Halton Region Public Health	147	23.7
Hastings Prince Edward Public Health	21	12.5
Huron County Health Unit	5	8.4
Kingston, Frontenac and Lennox & Addington Public Health	52	24.4
Lambton Public Health	77	58.8
Leeds, Grenville & Lanark District Health Unit	57	32.9
Middlesex-London Health Unit	130	25.6
Niagara Region Public Health	136	28.8
North Bay Parry Sound District Health Unit	4	3.1
Northwestern Health Unit	4	4.6
Ottawa Public Health	362	34.3

Public Health Unit Name	Cases	Rate per 100,000 population
Peel Public Health	529	32.9
Perth District Health Unit	12	14.9
Peterborough Public Health	42	28.4
Porcupine Health Unit	29	34.8
Public Health Sudbury & Districts	26	13.1
Region of Waterloo Public Health and Emergency Services	154	26.4
Renfrew County and District Health Unit	7	6.4
Simcoe Muskoka District Health Unit	85	14.2
Southwestern Public Health	18	8.5
Thunder Bay District Health Unit	13	8.7
Timiskaming Health Unit	3	9.2
Toronto Public Health	1,039	33.3
Wellington-Dufferin-Guelph Public Health	91	29.2
Windsor-Essex County Health Unit	158	37.2
York Region Public Health	452	36.9
Ontario	4,347	29.2

Note: Recently merged Huron Perth Public Health has case counts reported separately under Perth District Health Unit and Huron County Health Unit

Table 2. Confirmed cases (n=861) of COVID-19 with travel history* by location: Ontario, January 15, 2020 to April 5, 2020

Location travelled to**	Cases
United States	281
United Kingdom	91
Cruise	54
Spain	41
Mexico	40
Germany	33
France	24
Portugal	21
Austria	20
Philippines	18
Iran	17
Quebec	17
Switzerland	16
Egypt	14
Cuba	13
India	13
Ireland	10
British Columbia	9
Netherlands	9
Dominican Republic	8
Peru	8
Colombia	7

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

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