

Epidemiological Summary

COVID-19 in Ontario: January 15, 2020 to April 10, 2020

This report includes the most current information available from the integrated Public Health Information System (iPHIS) as of **4 p.m. April 10, 2020**.

Purpose

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

Highlights

- There are 6,648 confirmed cases of COVID-19 in Ontario reported to date in iPHIS. This represents an increase of 411 confirmed cases from the previous report.
 - 45.1% of cases are male, 54.3% are female.
 - 38.1% of cases are 60 years of age and older.
 - Greater Toronto Area public health units account for 53.4% of cases.
 - 12.9% of cases were hospitalized
- 253 deaths have been reported (please note there may be a reporting delay for deaths in iPHIS). This is an increase of 31 deaths from the previous report.
- Seventy-nine 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 10, 2020

	Number	Percentage
Number of cases*	6,648	N/A
Change from previous report	411	6.6% increase
Gender: Male	2,997	45.1
Gender: Female	3,609	54.3
Ages: 19 and under	157	2.4
Ages: 20-39	1,648	24.8
Ages: 40-59	2,303	34.6
Ages: 60-79	1,615	24.3
Ages: 80 and over	919	13.8
Number of cases in health care workers	744	11.2

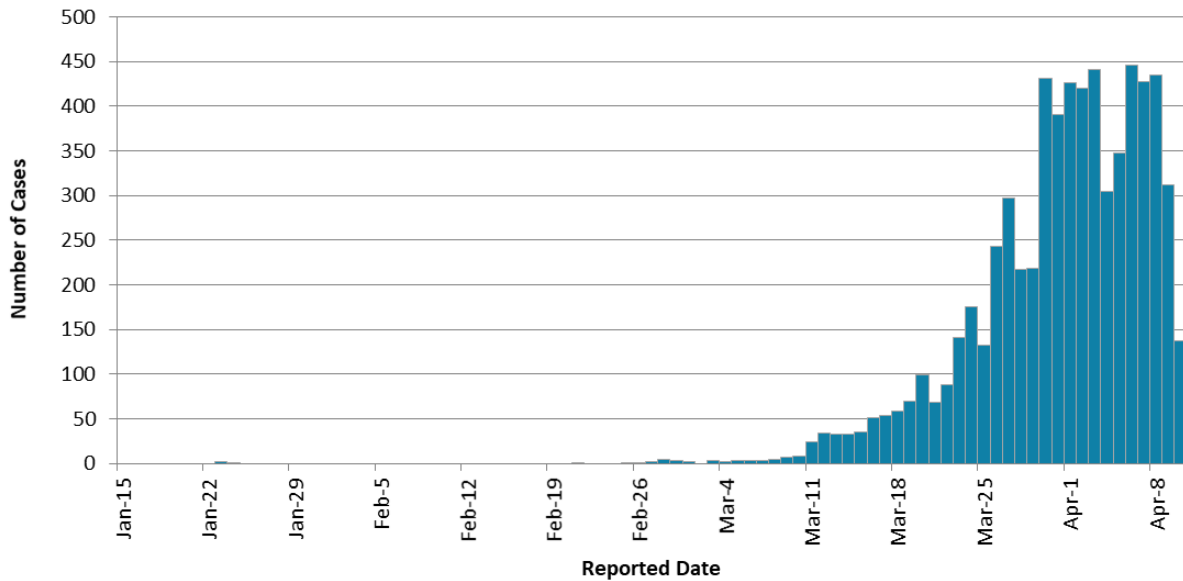
* Cases and rates by public health unit is provided in [Appendix A](#).

Note: 42 cases did not specify male or female. Six cases had an unknown age.

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

Time

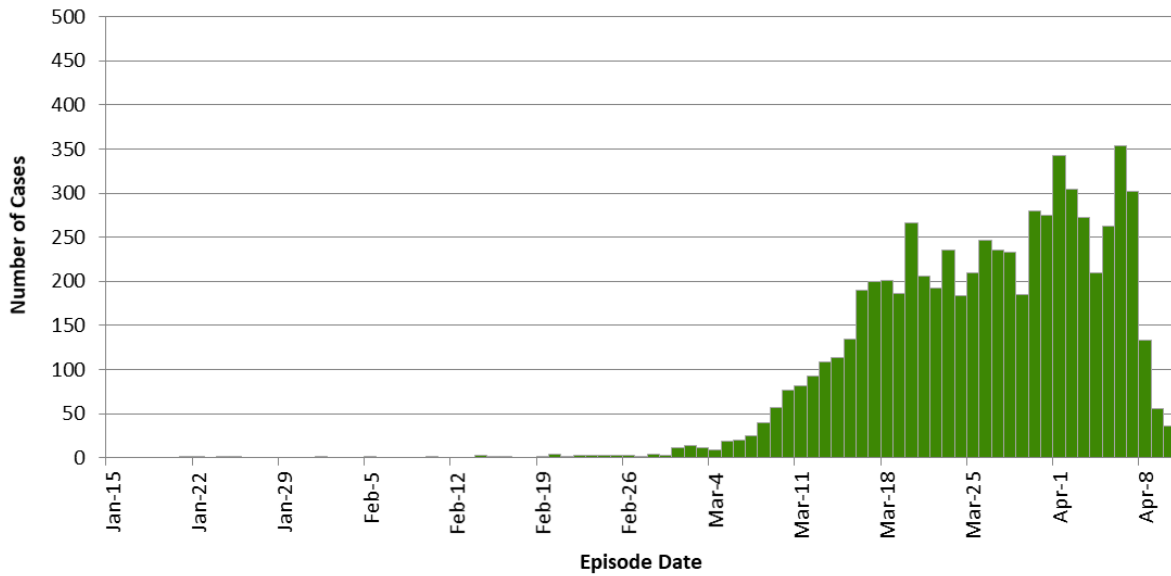
Figure 1. Confirmed cases (n=6,648) of COVID-19 by reported date: Ontario, January 15, 2020 to April 10, 2020*



*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=6,648) of COVID-19 by an approximation of symptom onset date*: Ontario, January 15, 2020 to April 10, 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=6,648) of COVID-19 by exposure type: Ontario, January 15, 2020 to April 10, 2020

	Number	Percentage
Travel*	1,093	16.4
Close contact of a confirmed case	1,097	16.5
Community transmission	1,395	21.0
Information pending	3,063	46.1

*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=6,648) of COVID-19 by severity: Ontario, January 15, 2020 to April 10, 2020

	Number	Percentage
Cumulative deaths reported (please note there may be a reporting delay for deaths in iPHIS)	253	3.8
Change from previous report	31	14.0% increase
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	15	0.7
Deaths reported in ages: 60-79	78	4.8
Deaths reported in ages: 80 and over	159	17.3
Cumulative intensive care*	253	3.8
Cumulative hospitalized*	859	12.9
Number of resolved** cases	2,858	43.0

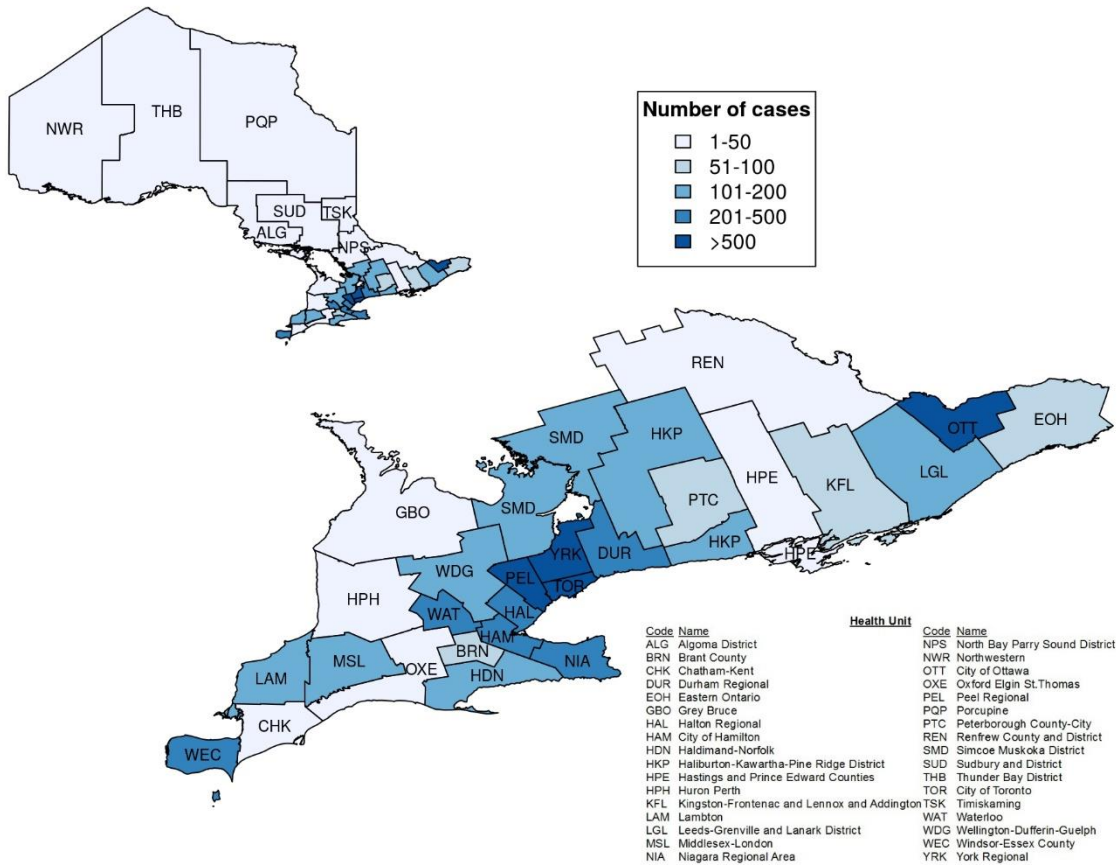
Data Source: integrated Public Health Information System (iPHIS) database

* 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.

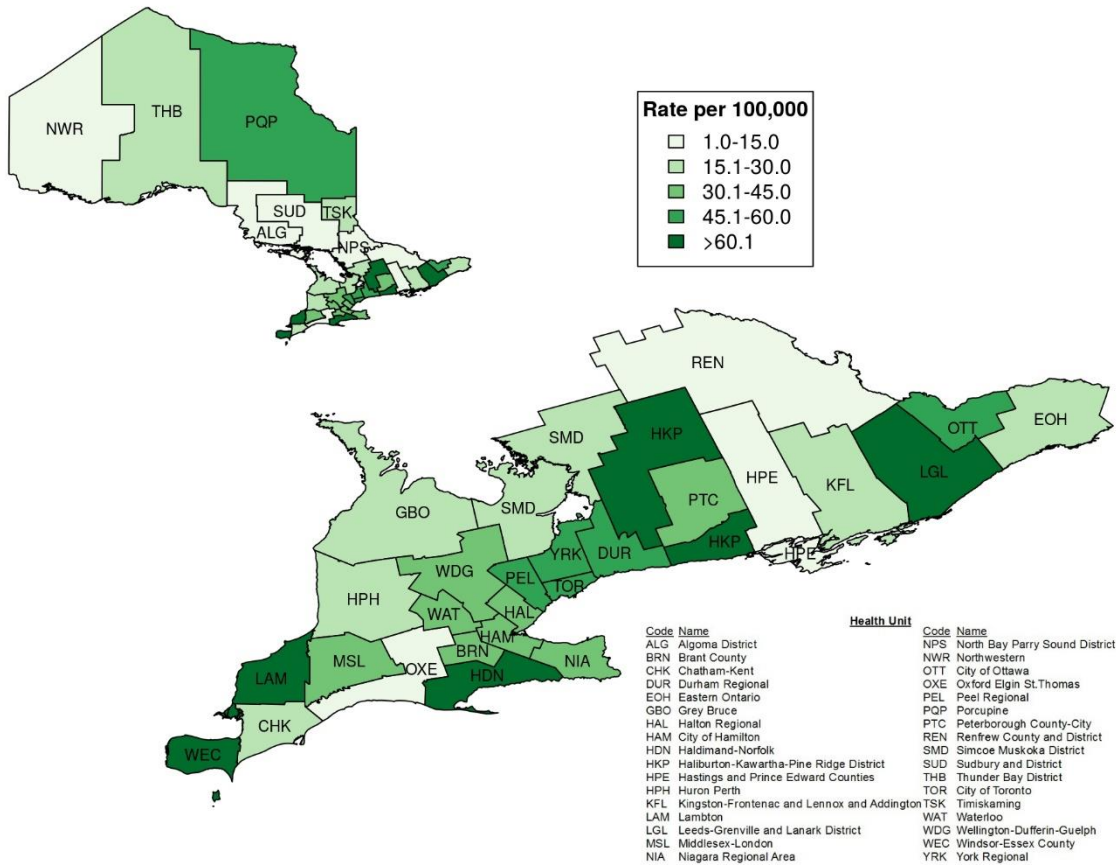
Geography

Figure 3. Confirmed cases (n=6,648) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 10, 2020



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

Figure 4. Rate of confirmed cases of COVID-19 by public health unit: Ontario, January 15, 2020 to April 10, 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 10, 2020

Indicator	Long-Term Care Homes	Hospitals
Number of confirmed COVID-19 outbreaks	79	20
Total number of cases*,** reported as part of the confirmed COVID-19 outbreaks	1,003	95
Cases reported among residents/patients	625	53
Cases reported among staff	374	41
Total number of deaths*,** reported as part of the confirmed COVID-19 outbreaks	109	8
Deaths reported among residents/patients	108	8
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 10, 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=6,648) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 10, 2020

Public Health Unit Name	Cases	Rate per 100,000 population
Algoma Public Health	10	8.7
Brant County Health Unit	64	41.2
Chatham-Kent Public Health	18	16.9
City of Hamilton Public Health Services	213	36.0
Durham Region Health Department	322	45.2
Eastern Ontario Health Unit	55	26.4
Grey Bruce Health Unit	32	18.8
Haldimand-Norfolk Health Unit	109	95.5
Haliburton, Kawartha, Pine Ridge District Health Unit	121	64.0
Halton Region Public Health	266	43.0
Hastings Prince Edward Public Health	25	14.8
Huron Perth Public Health	29	20.8
Kingston, Frontenac and Lennox & Addington Public Health	52	24.4
Lambton Public Health	103	78.6
Leeds, Grenville & Lanark District Health Unit	157	90.7
Middlesex-London Health Unit	185	36.5
Niagara Region Public Health	207	43.8
North Bay Parry Sound District Health Unit	7	5.4
Northwestern Health Unit	9	10.3
Ottawa Public Health	502	47.6

Public Health Unit Name	Cases	Rate per 100,000 population
Peel Public Health	875	54.5
Peterborough Public Health	51	34.5
Porcupine Health Unit	38	45.5
Public Health Sudbury & Districts	29	14.6
Region of Waterloo Public Health and Emergency Services	201	34.4
Renfrew County and District Health Unit	12	11.0
Simcoe Muskoka District Health Unit	137	22.8
Southwestern Public Health	28	13.2
Thunder Bay District Health Unit	24	16.0
Timiskaming Health Unit	7	21.4
Toronto Public Health	1,704	54.6
Wellington-Dufferin-Guelph Public Health	132	42.3
Windsor-Essex County Health Unit	272	64.0
York Region Public Health	652	53.2
Ontario	6,648	44.7

Table 2. Confirmed cases (n=1,093) of COVID-19 with travel history* by location: Ontario, January 15, 2020 to April 10, 2020

Location travelled to**	Cases
United States	369
United Kingdom	111
Mexico	64
Cruise	61
Spain	46
France	38
Germany	36
Quebec	36
Portugal	27
Austria	21
Switzerland	20
Philippines	19
Iran	18
Egypt	17
India	16
Cuba	13
Ireland	13
British Columbia	12
Dominican Republic	11
Netherlands	11

Location travelled to**	Cases
Colombia	10
Peru	10
United Arab Emirates	8
Italy	7
Bahamas	6
Brazil	6
Morocco	6
Pakistan	6
Australia	5
China	5
Turkey	5
Costa Rica	4
Ecuador	4
Jamaica	4
Nova Scotia	4
Alberta	3
Argentina	3
Aruba	3
Barbados	3
Denmark	3
Israel	3
Jordan	3

Location travelled to**	Cases
New Zealand	3
Panama	3
Saint Martin	3
Singapore	3
Bolivia	2
Haiti	2
Manitoba	2
Russian Federation	2
South Africa	2
Trinidad And Tobago	2
Viet Nam	2
Antigua And Barbuda	1
Bangladesh	1
Belgium	1
Bulgaria	1
Cayman Islands	1
Central African Republic	1
Chile	1
Côte D'Ivoire	1
Grenada	1
Hong Kong	1
Iceland	1

Location travelled to**	Cases
Japan	1
Lebanon	1
Malta	1
Qatar	1
Saskatchewan	1
South Korea	1
Sri Lanka	1
State of Palestine	1
Sweden	1
Tahiti	1
Uganda	1
Yukon	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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Citation

Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic summary: COVID-19 in Ontario – January 15, 2020 to April 10, 2020. Toronto, ON: Queen's Printer for Ontario; 2020.

For Further Information

For more information, email cd@oahpp.ca .

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