

## Epidemiological Summary

# COVID-19 in Ontario: January 15, 2020 to April 12, 2020

This report includes the most current information available from the integrated Public Health Information System (iPHIS) as of **4 p.m. April 12, 2020**.

## Purpose

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

## Highlights

- There are 7,470 confirmed cases of COVID-19 in Ontario reported to date in iPHIS. This represents an increase of 421 confirmed cases from the previous report.
  - 44.4% of cases are male, 55.0% are female.
  - 39.5% of cases are 60 years of age and older.
  - Greater Toronto Area public health units account for 53.9% of cases.
  - 12.8% of cases were hospitalized.
- 291 deaths have been reported (please note there may be a reporting delay for deaths in iPHIS). This is an increase of 17 deaths from the previous report.
- Eighty-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 12, 2020**

	Number	Percentage
Number of cases*	7,470	N/A
Change from previous report	421	6.0% increase
Gender: Male	3,318	44.4
Gender: Female	4,109	55.0
Ages: 19 and under	175	2.3
Ages: 20-39	1,817	24.3
Ages: 40-59	2,521	33.7
Ages: 60-79	1,797	24.1
Ages: 80 and over	1,154	15.4
Number of cases in health care workers	813	10.9

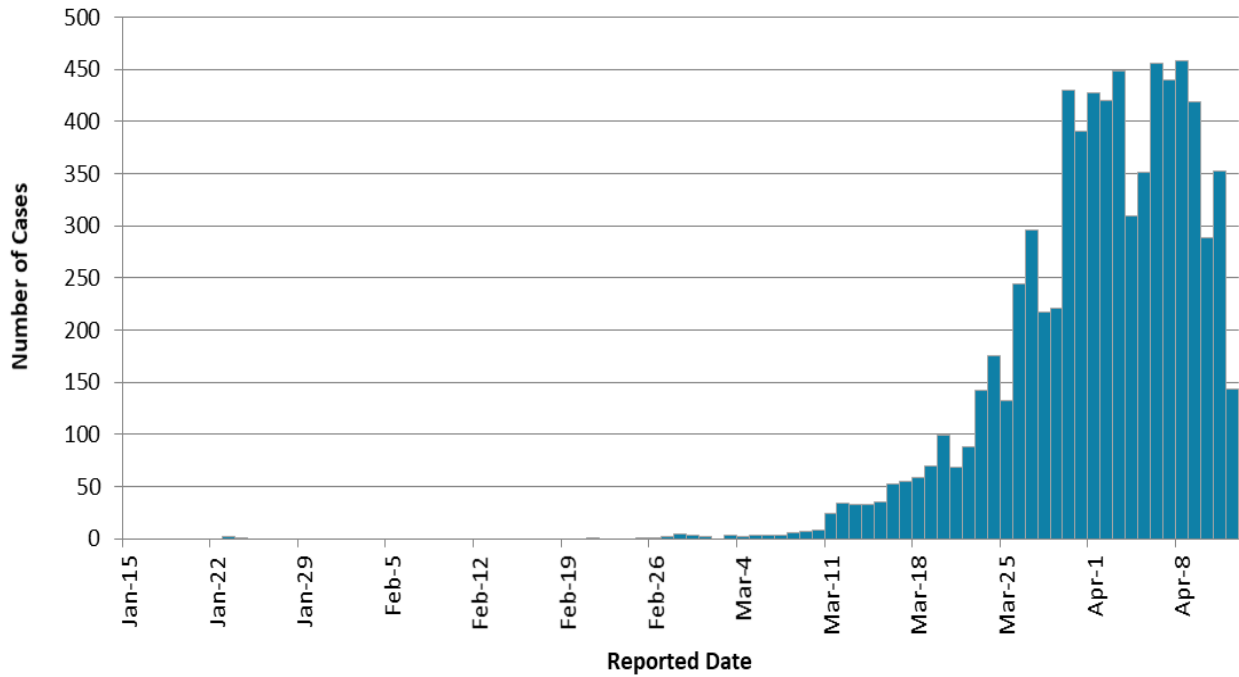
\* Cases and rates by public health unit is provided in [Appendix A](#).

**Note:** 43 cases did not specify male or female. Six cases had an unknown age.

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

# Time

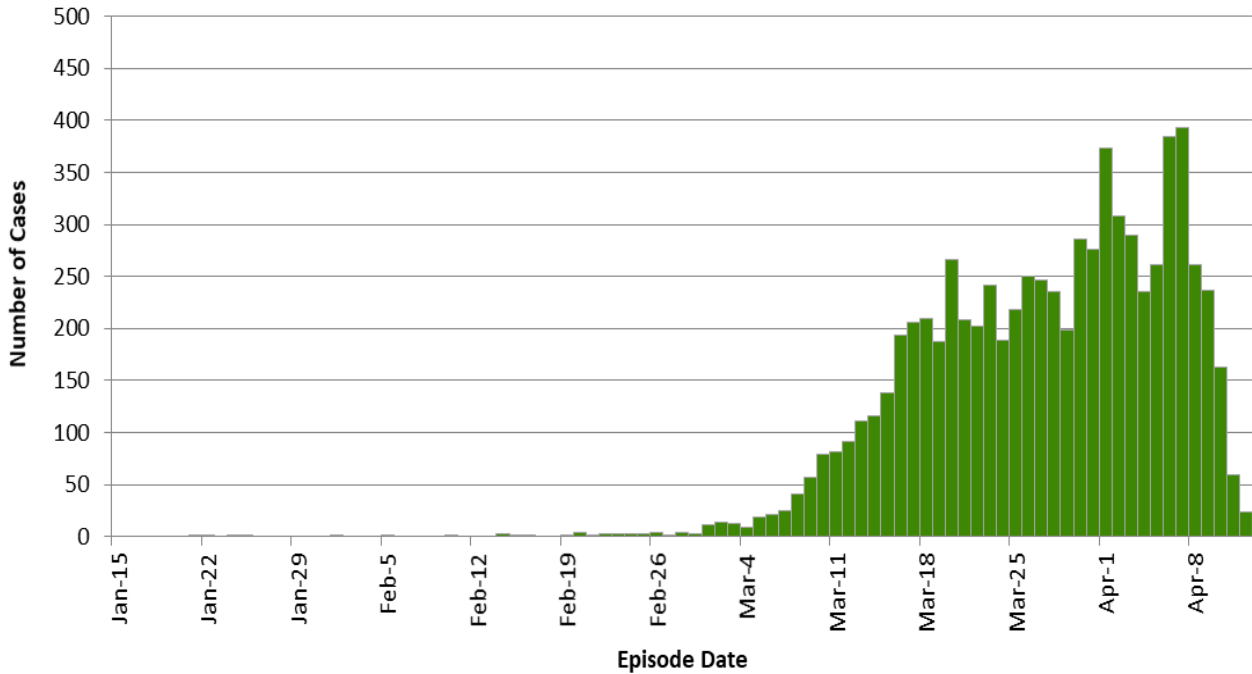
**Figure 1. Confirmed cases (n=7,470) of COVID-19 by reported date: Ontario, January 15, 2020 to April 12, 2020\***



\*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=7,470) of COVID-19 by an approximation of symptom onset date\*: Ontario, January 15, 2020 to April 12, 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=7,470) of COVID-19 by exposure type: Ontario, January 15, 2020 to April 12, 2020**

	Number	Percentage
Travel*	1,131	15.1
Close contact of a confirmed case	1,223	16.4
Community transmission	1,656	22.2
Information pending	3,460	46.3

\*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=7,470) of COVID-19 by severity: Ontario, January 15, 2020 to April 12, 2020**

	Number	Percentage
Cumulative deaths reported (please note there may be a reporting delay for deaths in iPHIS)	291	3.9
Change from previous report	17	6.2% increase
Deaths reported in ages: 19 and under	0	0
Deaths reported in ages: 20-39	1	0.1
Deaths reported in ages: 40-59	18	0.7
Deaths reported in ages: 60-79	89	5.0
Deaths reported in ages: 80 and over	183	15.9
Cumulative intensive care*	274	3.7
Cumulative hospitalized*	954	12.8
Number of resolved** cases	3,357	44.9

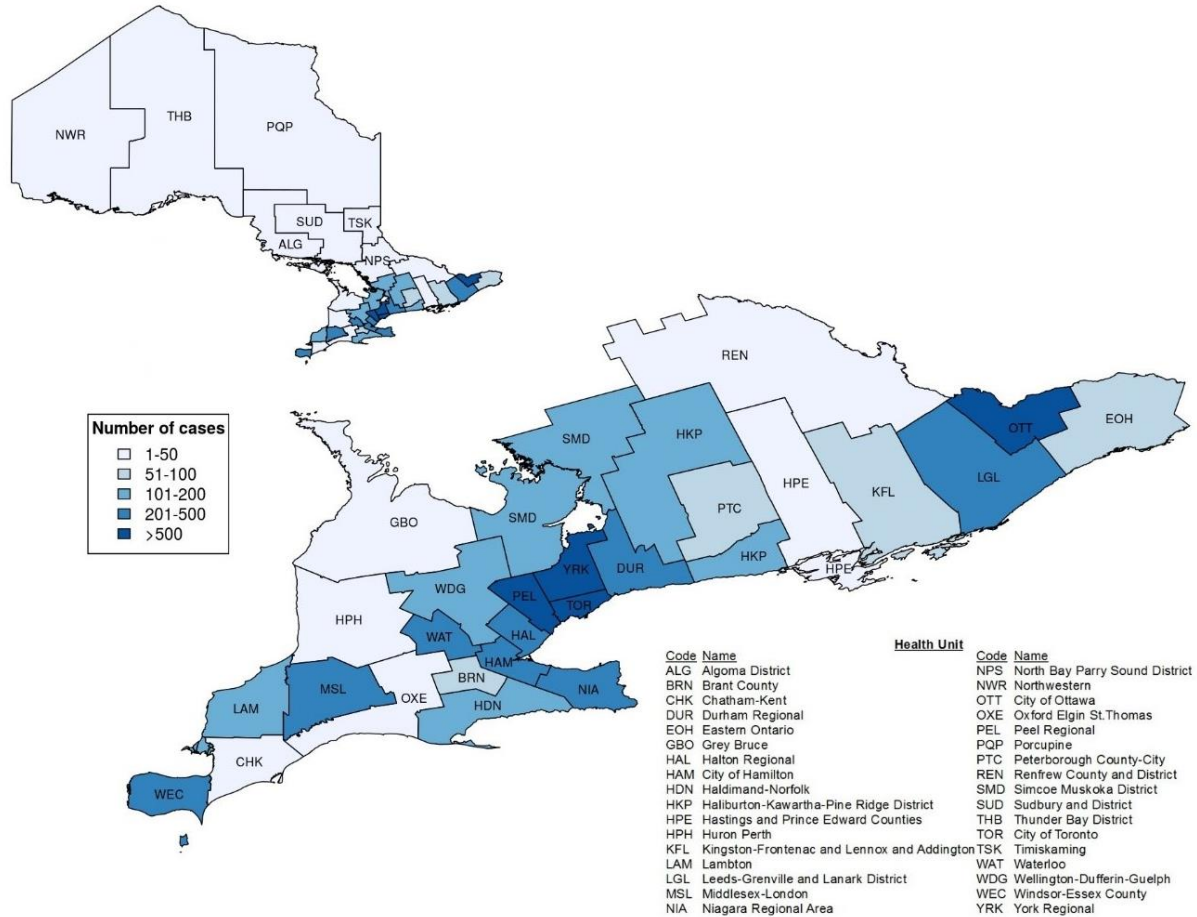
**Data Source:** integrated Public Health Information System (iPHIS) database

\* 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.

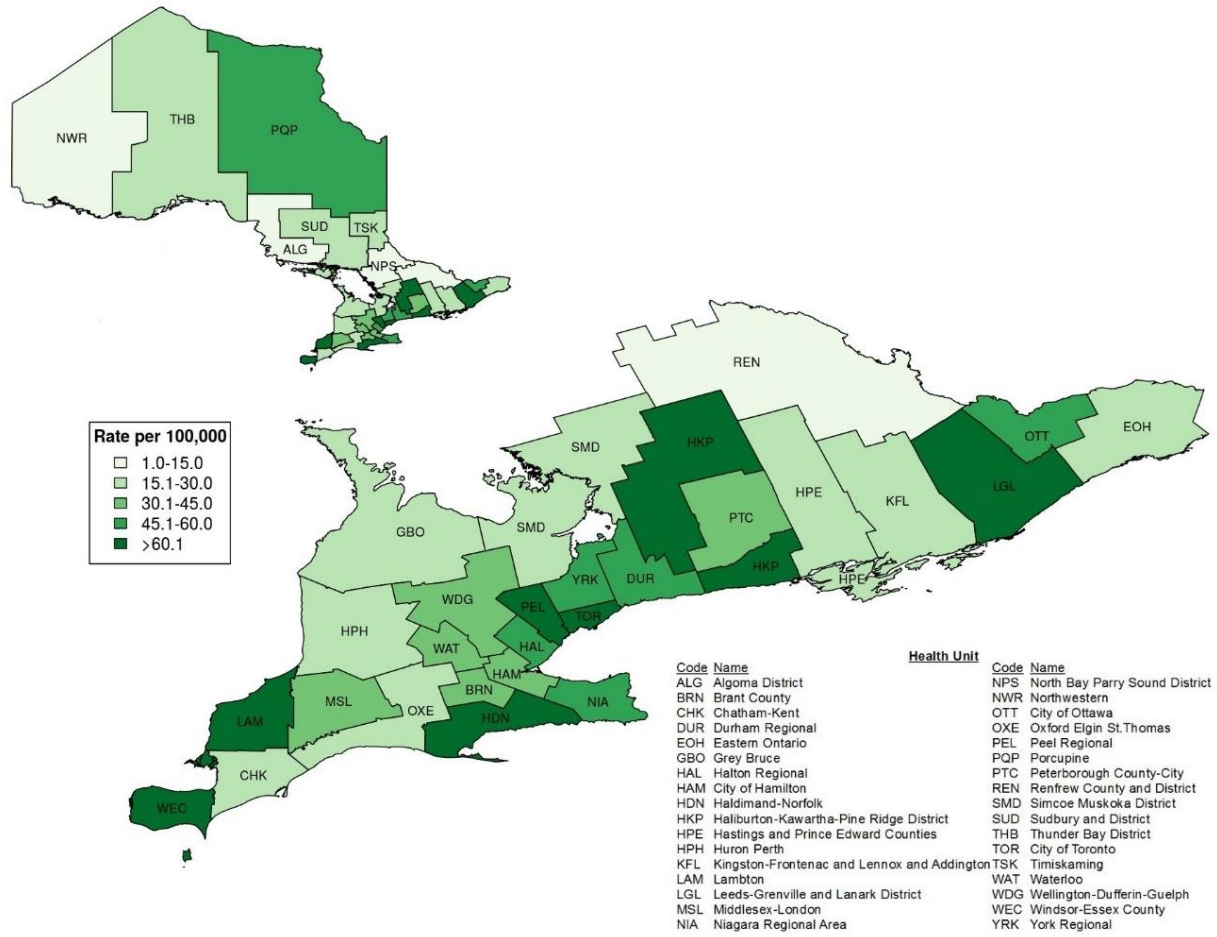
# Geography

**Figure 3. Confirmed cases (n=7,470) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 12, 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 12, 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 12, 2020**

Indicator	Long-Term Care Homes	Hospitals
Number of confirmed COVID-19 outbreaks	89	24
Total number of cases*,** reported as part of the confirmed COVID-19 outbreaks	1,175	100
Cases reported among residents/patients	741	56
Cases reported among staff	430	43
Total number of deaths*,** reported as part of the confirmed COVID-19 outbreaks	120	8
Deaths reported among residents/patients	119	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 12, 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=7,470) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 12, 2020**

Public Health Unit Name	Cases	Rate per 100,000 population
Northwestern Health Unit	9	10.3
Thunder Bay District Health Unit	27	18.0
<b>TOTAL NORTH WEST</b>	<b>36</b>	<b>15.1</b>
Algoma Public Health	10	8.7
North Bay Parry Sound District Health Unit	9	6.9
Porcupine Health Unit	39	46.7
Public Health Sudbury & Districts	34	17.1
Timiskaming Health Unit	7	21.4
<b>TOTAL NORTH EAST</b>	<b>99</b>	<b>17.7</b>
Ottawa Public Health	561	53.2
Eastern Ontario Health Unit	58	27.8
Hastings Prince Edward Public Health	26	15.4
Kingston, Frontenac and Lennox & Addington Public Health	53	24.9
Leeds, Grenville & Lanark District Health Unit	201	116.1
Renfrew County and District Health Unit	14	12.9
<b>TOTAL EASTERN</b>	<b>913</b>	<b>47.4</b>
Durham Region Health Department	350	49.1
Haliburton, Kawartha, Pine Ridge District Health Unit	129	68.3
Peel Public Health	989	61.6

Public Health Unit Name	Cases	Rate per 100,000 population
Peterborough Public Health	52	35.1
Simcoe Muskoka District Health Unit	148	24.7
York Region Public Health	688	56.1
<b>TOTAL CENTRAL EAST</b>	<b>2,356</b>	<b>52.6</b>
Toronto Public Health	2,000	64.1
<b>TOTAL TORONTO</b>	<b>2,000</b>	<b>64.1</b>
Chatham-Kent Public Health	25	23.5
Grey Bruce Health Unit	36	21.2
Huron Perth Public Health	31	22.2
Lambton Public Health	115	87.8
Middlesex-London Health Unit	223	43.9
Southwestern Public Health	33	15.6
Windsor-Essex County Health Unit	290	68.3
<b>TOTAL SOUTH WEST</b>	<b>753</b>	<b>44.5</b>
Brant County Health Unit	68	43.8
City of Hamilton Public Health Services	238	40.2
Haldimand-Norfolk Health Unit	128	112.2
Halton Region Public Health	291	47.0
Niagara Region Public Health	238	50.4
Region of Waterloo Public Health and Emergency Services	217	37.1
Wellington-Dufferin-Guelph Public Health	133	42.6
<b>TOTAL CENTRAL WEST</b>	<b>1,313</b>	<b>46.1</b>
<b>TOTAL ONTARIO</b>	<b>7,470</b>	<b>50.3</b>

**Table 2. Confirmed cases (n=1,131) of COVID-19 with travel history\* by location: Ontario, January 15, 2020 to April 12, 2020**

Location travelled to**	Cases
United States	380
United Kingdom	117
Cruise	67
Mexico	67
Spain	46
France	42
Quebec	38
Germany	36
Portugal	27
Austria	21
Switzerland	20
Philippines	19
Egypt	18
Iran	18
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	9
Italy	8
Australia	6
Bahamas	6
Brazil	6
Morocco	6
Pakistan	6
China	5
Costa Rica	5
Ecuador	5
Jamaica	5
Turkey	5
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
Botswana	1
Bulgaria	1
Burkina Faso	1
Cayman Islands	1
Central African Republic	1
Chile	1
Côte D'Ivoire	1
Grenada	1

Location travelled to**	Cases
Hong Kong	1
Iceland	1
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.



## Disclaimer

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## For Further Information

For more information, email [cd@oahpp.ca](mailto:cd@oahpp.ca).

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