

### **Epidemiologic Summary**

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

This report includes the most current information available from the integrated Public Health Information System (iPHIS) as of **4 p.m. May 19, 2020,** from the Toronto Public Health Coronavirus Rapid Entry System (CORES) and the Ottawa Public Health COVID-19 Ottawa Database (The COD), and Middlesex-London COVID-19 Case and Contact Management tool (CCMtool) as of **2 p.m. May 19, 2020.** 

Please vist the interactive <u>Ontario COVID-19 Data Tool</u> to explore recent COVID-19 data by public health unit, age group, sex, and view trends over time.

#### Purpose

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

#### Highlights

- There are 23,774 confirmed cases of COVID-19 in Ontario reported to date. This represents an increase of 390 confirmed cases from the previous report.
  - 42.5% of cases are male, 56.8% are female.
  - 42.0% of cases are 60 years of age and older.
  - Greater Toronto Area public health units account for 63.4% of cases.
  - 12.8% of cases were hospitalized.
- 1,962 deaths have been reported (please note there may be a reporting delay for deaths). This is an increase of 43 deaths from the previous report.
- 284 outbreaks have been reported in long-term care homes. This is an increase of 4 outbreaks from the previous report.

#### **Case Characteristics**

	Number	Percentage
Number of cases <sup>1</sup>	23,774	N/A
Change from previous report	390	1.7% increase
Gender: Male	10,095	42.5
Gender: Female	13,507	56.8
Ages: 19 and under	686	2.9
Ages: 20-39	5,840	24.6
Ages: 40-59	7,258	30.5
Ages: 60-79	4,997	21.0
Ages: 80 and over	4,981	21.0
Number of cases in health care workers	4,111	17.3

<sup>1</sup> Cases and rates by public health units are provided in <u>Appendix A</u>.

**Note:** 172 cases did not specify male or female. 12 cases had an unknown age.

#### Time

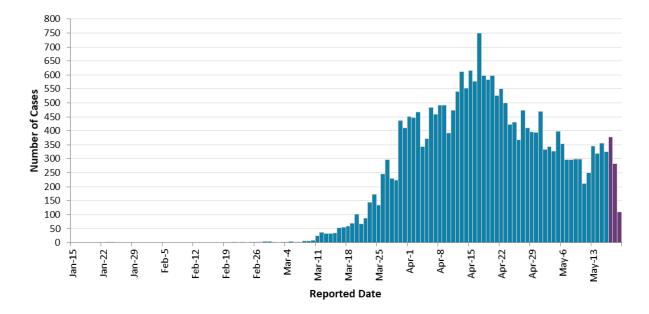
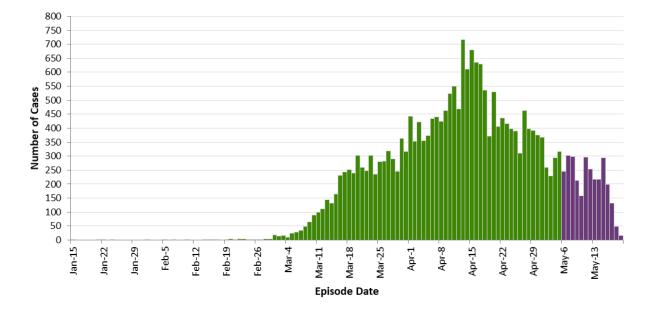


Figure 1. Confirmed cases (n=23,774) of COVID-19 by reported date: Ontario, January 15, 2020 to May 19, 2020<sup>1</sup>

<sup>1</sup>Interpret case counts for the most recent days (approximately 3 days, as shown in purple) with caution due to reporting lags.

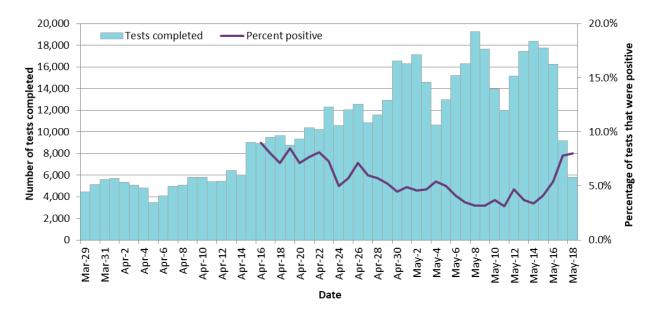


# Figure 2. Confirmed cases (n=23,771<sup>1</sup>) of COVID-19 by an approximation of symptom onset date<sup>2</sup>: Ontario, January 15, 2020 to May 19, 2020<sup>3</sup>

<sup>1</sup> This count excludes 3 cases that did not have an episode date.

<sup>2</sup> 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.

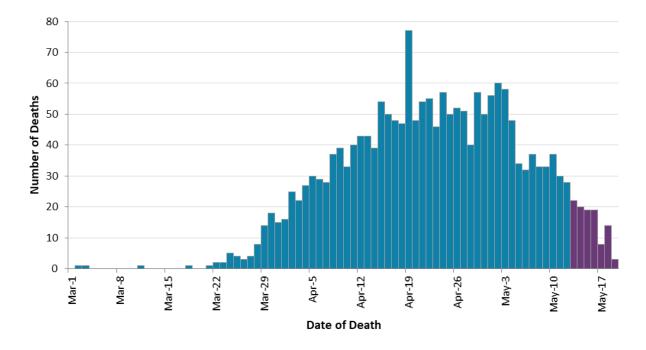
<sup>3</sup> Interpret case counts for the most recent days (approximately 14 days, as shown in purple) with caution due to reporting lags.



# Figure 3. Number of COVID-19 tests completed<sup>1</sup> and percent positivity: Ontario, March 29, 2020 to May 18, 2020

<sup>1</sup>The 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. **Data Source:** The Provincial COVID-19 Diagnostics Network, data reported by member microbiology

laboratories.





<sup>1</sup>This count excludes 4 cases that did not have a date of death reported.

<sup>2</sup> Interpret case counts for the most recent days (approximately 7 days, as shown in purple) with caution due to reporting lags.

#### Exposure

Table 2. Confirmed cases (n=23,774) of COVID-19 by exposure type: Ontario, January 15, 2020 to May 19, 2020

	Number	Percentage
Travel <sup>1</sup>	1,545	6.5
Close contact of a confirmed case	5,933	25.0
Community transmission	8,305	34.9
Information pending	7,991	33.6

<sup>1</sup>Travel within the 14 days prior to becoming ill.

#### Severity

## Table 3. Confirmed cases (n=23,774) of COVID-19 by severity: Ontario, January 15, 2020 to May 19, 2020

	Number	Percentage
Cumulative deaths reported (please note there may be a reporting delay for deaths in iPHIS)	1,962	8.3
Change from previous report	43	2.2% increase
Deaths reported in ages: 19 and under	0	0.0
Deaths reported in ages: 20-39	8	0.1
Deaths reported in ages: 40-59	80	1.1
Deaths reported in ages: 60-79	504	10.1
Deaths reported in ages: 80 and over	1,370	27.5
Cumulative intensive care <sup>1</sup>	673	2.8
Cumulative hospitalized <sup>1</sup>	3,047	12.8
Number of resolved <sup>2</sup> cases	18,190	76.5

<sup>1</sup> These refer to all hospitalized or ICU admitted cases, not cases that are currently hospitalized or in ICU.

<sup>2</sup> 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=23,774) of COVID-19 by public health unit: Ontario, January 15, 2020 to May 19, 2020

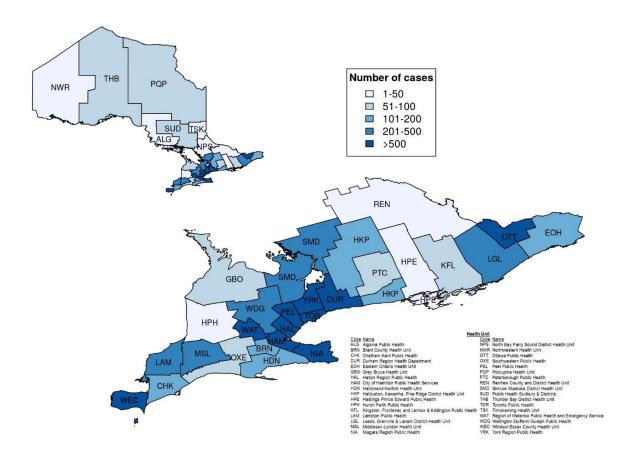
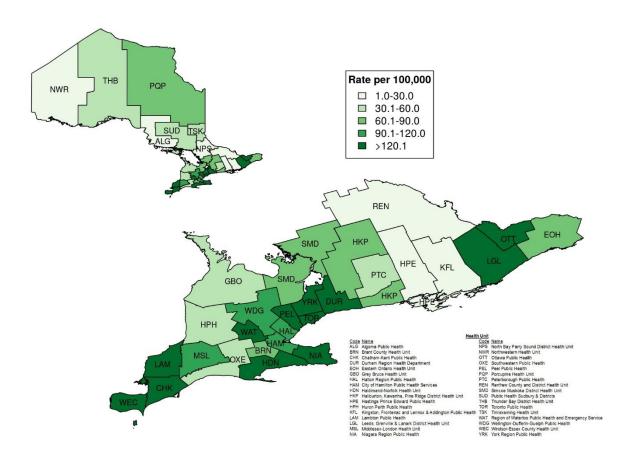


Figure 6. Rate of confirmed cases of COVID-19 by public health unit: Ontario, January 15, 2020 to May 19, 2020



### **Outbreaks in Institutions and Public Hospitals**

Table 4a. Confirmed COVID-19 outbreaks reported in long-term care homes, retirement homes and hospitals by status: Ontario, January 15, 2020 to May 19, 2020

Institution type	Number of ongoing outbreaks <sup>1</sup>	Cumulative number of outbreaks reported
Long term care homes	219	284
Retirement homes	80	115
Hospitals	56	78

<sup>1</sup>Includes all outbreaks that are 'Open' in iPHIS without a 'Declared Over Date' recorded.

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

## Table 4b. Confirmed cases of COVID-19 in long-term care homes<sup>6</sup>: Ontario, January 15, 2020 to May 19, 2020

Indicator	Number	Percentage
Cases among long-term care home residents <sup>1,2,3</sup>	4,518	19.0% of all cases
Cases among health care workers <sup>2,3,4,</sup> associated with long-term care outbreaks	1,573	6.6% of all cases
Deaths <sup>5</sup> reported for residents in long-term care homes <sup>1,2,3</sup>	1,224	62.4% of all deaths
Deaths <sup>5</sup> reported for health care workers <sup>2,3,4,</sup> in long- term care homes	4	0.2% of all deaths

<sup>1</sup> Includes cases that reported 'Yes' to the risk factor 'Resident of nursing home or other chronic care facility' and reported to be part of an outbreak assigned as a long-term care home (via the Outbreak number or case comments field); or were reported to be part of an outbreak assigned as a long-term care home (via the outbreak number or case comments field) with an age over 70 years and did not report 'No' to the risk factor 'Resident of nursing home or other chronic care facility'.

<sup>2</sup> Excludes cases that reported 'Yes' to both risk factors: 'Resident of nursing home or other chronic care facility' and 'health care worker'.

<sup>3</sup>There is a lag between when cases are reported and when risk factors are updated.

<sup>4</sup> Health care worker includes cases that reported 'Yes' to any of the occupations health care worker, doctor, nurse; and for health care workers associated with a long-term care outbreak those reported to be part of an outbreak assigned as a long-term care home (via the outbreak number or case comments field)

<sup>5</sup>Deaths are determined by using the outcome field. 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 iPHIS or local case management systems.

<sup>6</sup> Counts of cases and deaths for long term care home residents and staff are now being calculated using individual level data as opposed to aggregate data. As a result, they are being reported separately from the aggregate counts in table 4c.

 Table 4c. Aggregate case counts (confirmed and epidemiologically linked) reported for COVID 

 19 outbreaks in retirement homes and hospitals: <sup>1</sup> Ontario, January 15, 2020 to May 19, 2020

Indicator	Retirement Homes	Hospitals
Total number of cases <sup>,2,3,4</sup> reported as part of the confirmed COVID-19 outbreaks	909	687
Cases reported among residents/patients	602	329
Cases reported among staff	307	350
Total number of deaths <sup>2,3,4</sup> reported as part of the confirmed COVID-19 outbreaks	125	53
Deaths reported among residents/patients	125	53
Deaths reported among staff	0	0

<sup>1</sup> Counts of cases and deaths for long term care home residents and staff are now being calculated using individual level data as opposed to aggregate data. These are available in table 4b.

<sup>2</sup> 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).

<sup>3</sup> 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.

<sup>4</sup> Counts may fluctuate from previous reports due to updates made by health units as additional information about the outbreak is reported.

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

### **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 May 19, 2020 at 4 p.m.
  - Information successfully uploaded to the Ministry from Local Systems: Toronto Public Health (Coronavirus Rapid Entry System) CORES, The Ottawa Public Health COVID-19 Ottawa Database (The COD) and Middlesex-London COVID-19 Case and Contact Management Tool (CCMtool) as of May 19, 2020 at 2 p.m.
- iPHIS, CORES, The COD and COVID-19 CCMtool 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, The COD, COVID-19 CCMtool). 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=23,774) of COVID-19 by public health unit: Ontario, January 15, 2020 to May 19, 2020

Public Health Unit Name	Cases	Rate per 100,000 population
Northwestern Health Unit	19	21.7
Thunder Bay District Health Unit	79	52.7
TOTAL NORTH WEST	98	41.2
Algoma Public Health	20	17.5
North Bay Parry Sound District Health Unit	22	17.0
Porcupine Health Unit	65	77.9
Public Health Sudbury & Districts	63	31.7
Timiskaming Health Unit	18	55.1
TOTAL NORTH EAST	188	33.6
Ottawa Public Health	1,839	174.4
Eastern Ontario Health Unit	142	68.0
Hastings Prince Edward Public Health	43	25.5
Kingston, Frontenac and Lennox & Addington Public Health	61	28.7
Leeds, Grenville & Lanark District Health Unit	341	196.9
Renfrew County and District Health Unit	18	16.6
TOTAL EASTERN	2,444	126.9
Durham Region Health Department	1,290	181.1
Haliburton, Kawartha, Pine Ridge District Health Unit	166	87.9
Peel Public Health	3,540	220.4

Public Health Unit Name	Cases	Rate per 100,000 population
Peterborough Public Health	76	51.4
Simcoe Muskoka District Health Unit	433	72.2
York Region Public Health	2,041	166.5
TOTAL CENTRAL EAST	7,546	168.4
Toronto Public Health	8,192	262.5
TOTAL TORONTO	8,192	262.5
Chatham-Kent Public Health	137	128.9
Grey Bruce Health Unit	88	51.8
Huron Perth Public Health	50	35.8
Lambton Public Health	230	175.6
Middlesex-London Health Unit	484	95.4
Southwestern Public Health	64	30.3
Windsor-Essex County Health Unit	798	187.8
TOTAL SOUTH WEST	1,851	109.5
Brant County Health Unit	109	70.2
City of Hamilton Public Health Services	591	99.8
Haldimand-Norfolk Health Unit	199	174.4
Halton Region Public Health	587	94.8
Niagara Region Public Health	611	129.3
Region of Waterloo Public Health and Emergency Services	1,009	172.7
Wellington-Dufferin-Guelph Public Health	349	111.9
TOTAL CENTRAL WEST	3,455	121.3
TOTAL ONTARIO	23,774	159.9

#### Disclaimer

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#### For Further Information

For more information, email <u>cd@oahpp.ca</u>.

## Public Health Ontario

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