

Epidemiologic Summary

COVID-19 in Ontario: January 15, 2020 to April 26, 2020

This report includes the most current information available from the integrated Public Health Information System (iPHIS) as of **4 p.m. April 26, 2020** and from the Toronto Public Health Coronavirus Rapid Entry System (CORES) as of **2 p.m. April 26, 2020**.

Purpose

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

Highlights

- There are 14,856 confirmed cases of COVID-19 in Ontario reported to date in iPHIS. This represents an increase of 424 confirmed cases from the previous report.
 - 41.5% of cases are male, 57.5% are female.
 - 44.5% of cases are 60 years of age and older.
 - Greater Toronto Area public health units account for 59.5% of cases.
 - 11.4% of cases were hospitalized.
- 892 deaths have been reported (please note there may be a reporting delay for deaths in iPHIS). This is an increase of 57 deaths from the previous report.
- 170 outbreaks have been reported in long-term care homes. This is an increase of 3 outbreaks from the previous report.
- 497 deaths have been reported among residents/patients in long-term care homes. This is an increase of 42 deaths from the previous report.

Case Characteristics

Table 1. Summary of cases of COVID-19: Ontario, January 15, 2020 to April 26, 2020

	Number	Percentage
Number of cases ¹	14,856	N/A
Change from previous report	424	2.9% increase
Gender: Male	6,168	41.5
Gender: Female	8,548	57.5
Ages: 19 and under	326	2.2
Ages: 20-39	3,398	22.9
Ages: 40-59	4,504	30.3
Ages: 60-79	3,302	22.2
Ages: 80 and over	3,318	22.3
Number of cases in health care workers	2,016	13.6

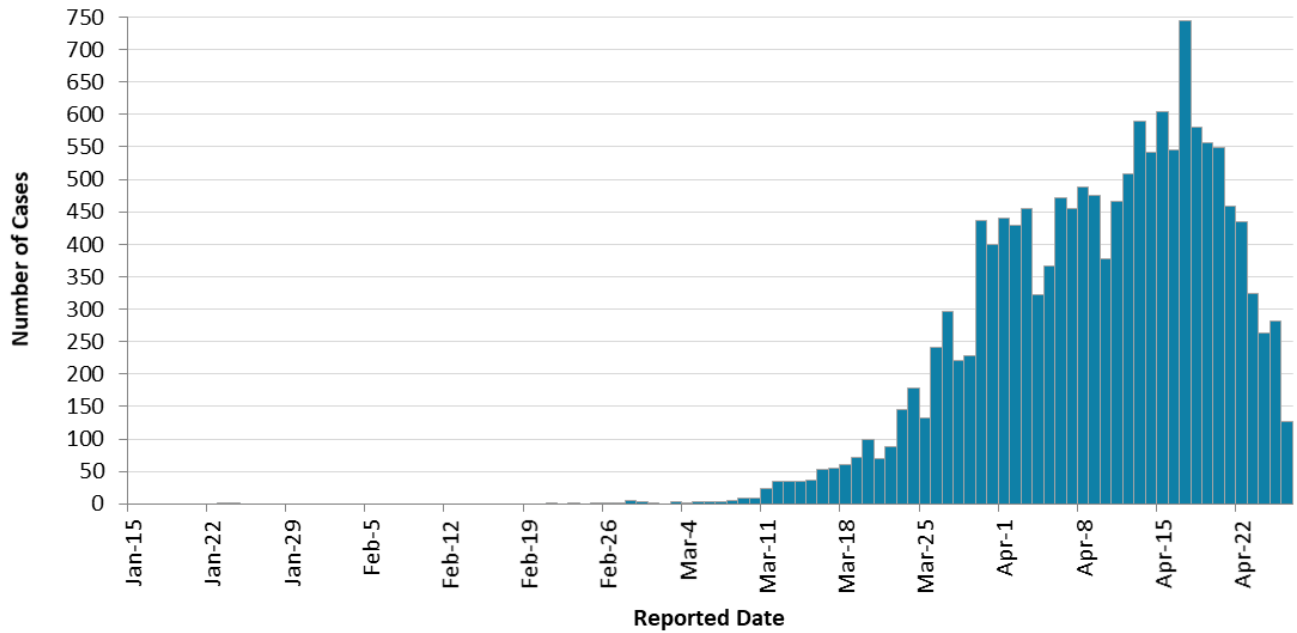
¹ Cases and rates by public health units are provided in [Appendix A](#).

Note: 140 cases did not specify male or female. Eight cases had an unknown age.

Data Source: integrated Public Health Information System (iPHIS) database, Coronavirus Rapid Entry System (CORES) database.

Time

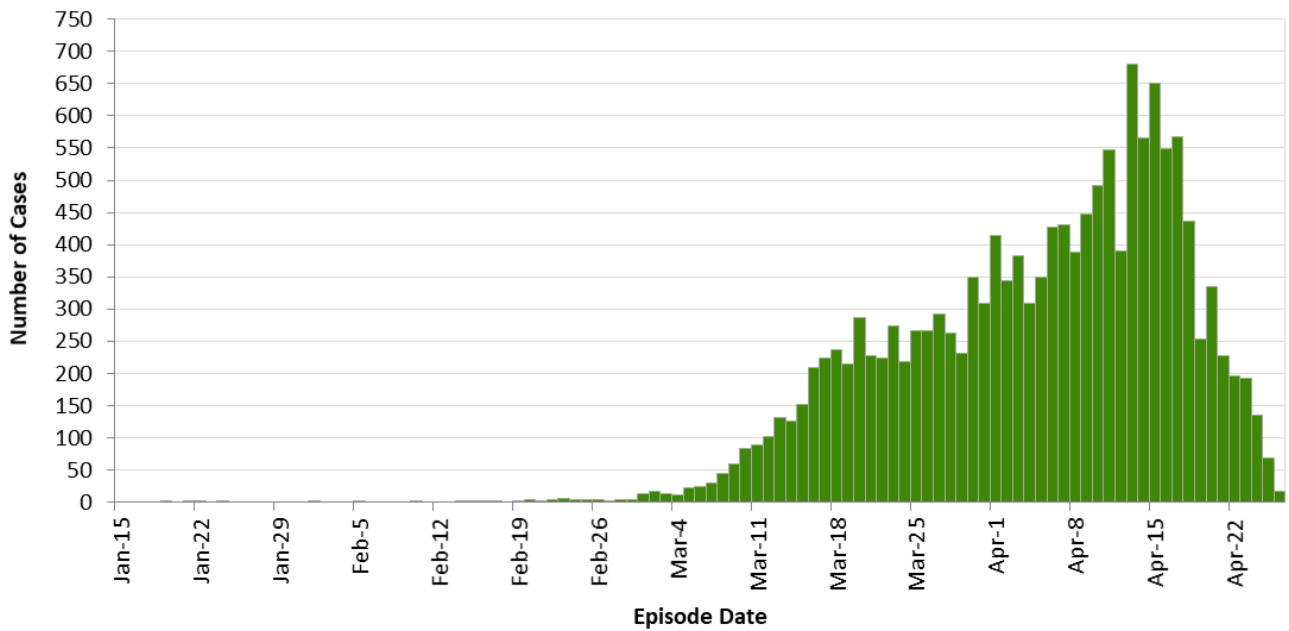
Figure 1. Confirmed cases (n=14,856) of COVID-19 by reported date: Ontario, January 15, 2020 to April 26, 2020¹



¹ Interpret case counts for the most recent days (approximately 3 days) with caution due to reporting lags.

Data Source: integrated Public Health Information System (iPHIS) database, Coronavirus Rapid Entry System (CORES) database.

Figure 2. Confirmed cases (n=14,854¹) of COVID-19 by an approximation of symptom onset date²: Ontario, January 15, 2020 to April 26, 2020³



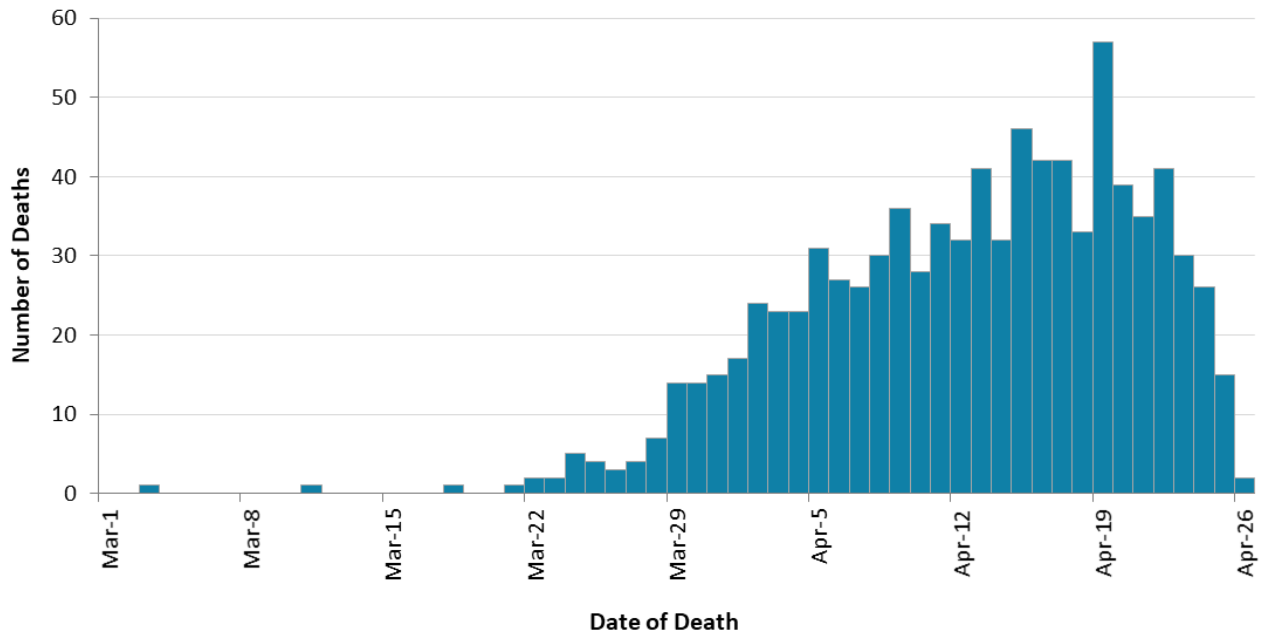
¹This count excludes the 2 cases that did not have an episode date reported.

²This 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.

³Interpret case counts for the most recent days (approximately 14 days) with caution due to reporting lags.

Data Source: integrated Public Health Information System (iPHIS) database, Coronavirus Rapid Entry System (CORES) database.

Figure 3. Confirmed deaths (n=886¹) among COVID-19 cases by date of death: Ontario, January 15, 2020 to April 26, 2020²



¹This count excludes the 6 cases that did not have a date of death reported.

²Interpret case counts for the most recent days with caution due to reporting lags.

Data Source: integrated Public Health Information System (iPHIS) database, Coronavirus Rapid Entry System (CORES) database.

Exposure

Table 2. Confirmed cases (n=14,856) of COVID-19 by exposure type: Ontario, January 15, 2020 to April 26, 2020

	Number	Percentage
Travel ¹	1,343	9.0
Close contact of a confirmed case	2,868	19.3
Community transmission	5,400	36.3
Information pending	5,245	35.3

¹Travel within the 14 days prior to becoming ill.

Data Source: integrated Public Health Information System (iPHIS) database, Coronavirus Rapid Entry System (CORES) database.

Severity

Table 3. Confirmed cases (n=14,856) of COVID-19 by severity: Ontario, January 15, 2020 to April 26, 2020

	Number	Percentage
Cumulative deaths reported (please note there may be a reporting delay for deaths in iPHIS)	892	6.0
Change from previous report	57	6.8% increase
Deaths reported in ages: 19 and under	0	0
Deaths reported in ages: 20-39	5	0.1
Deaths reported in ages: 40-59	39	0.9
Deaths reported in ages: 60-79	241	7.3
Deaths reported in ages: 80 and over	607	18.3
Cumulative intensive care ¹	429	2.9
Cumulative hospitalized ¹	1,701	11.4
Number of resolved ² cases	8,525	57.4

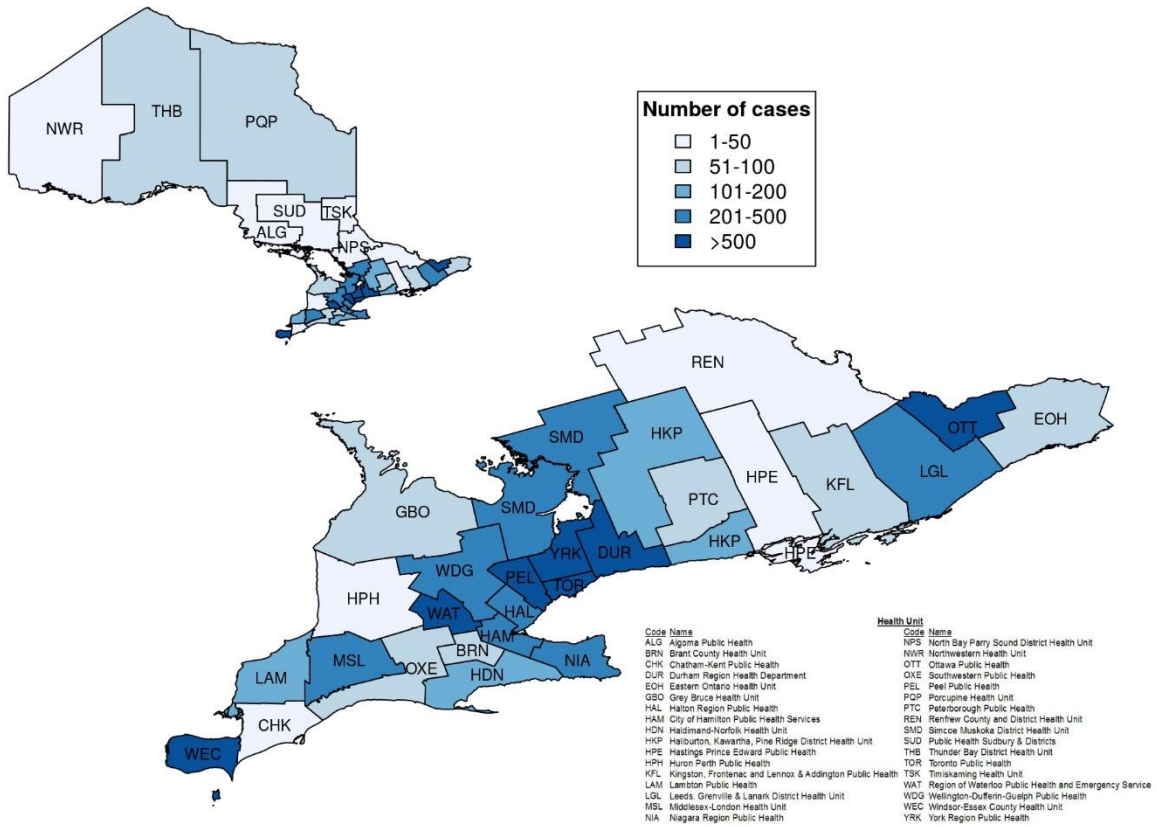
¹ These refer to all hospitalized or ICU admitted cases, not cases that are currently hospitalized or in ICU.

² 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.

Data Source: integrated Public Health Information System (iPHIS) database, Coronavirus Rapid Entry System (CORES) database.

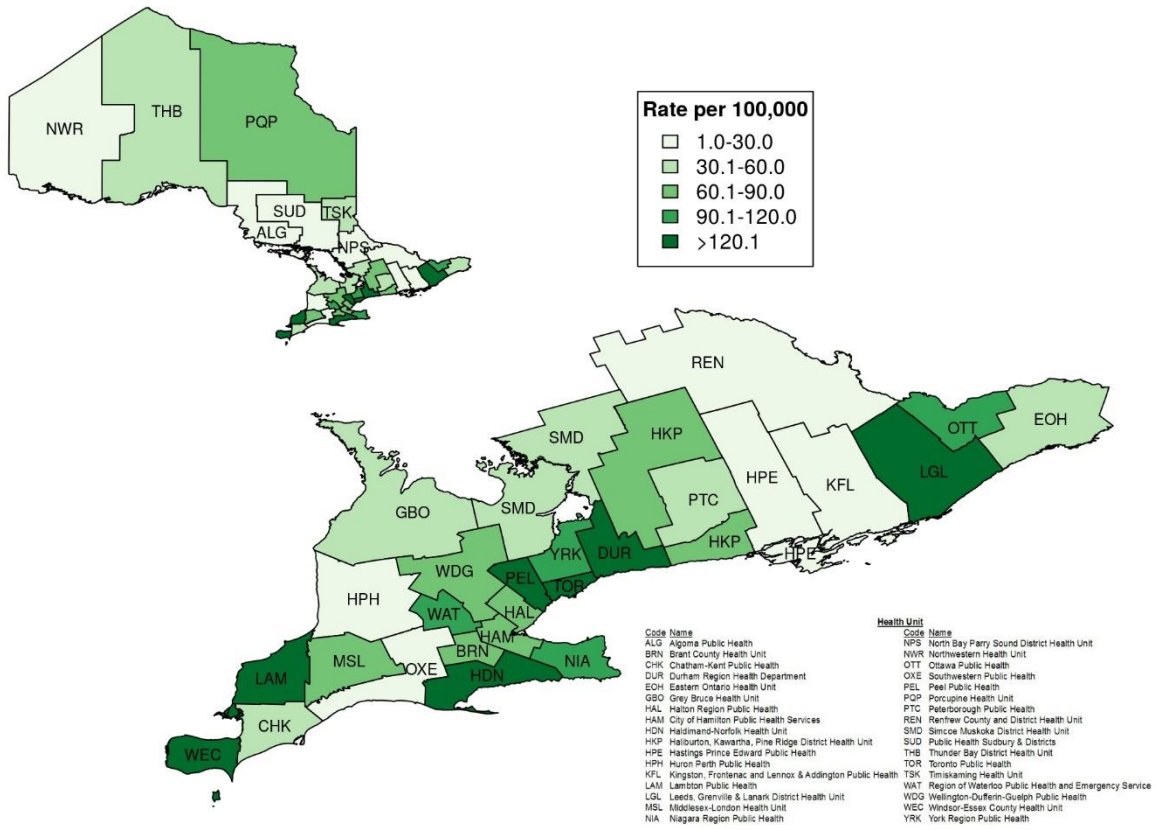
Geography

Figure 4. Confirmed cases (n=14,856) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 26, 2020



Data Source: integrated Public Health Information System (iPHIS) database, Coronavirus Rapid Entry System (CORES) database.

Figure 5. Rate of confirmed cases of COVID-19 by public health unit: Ontario, January 15, 2020 to April 26, 2020



Data Source: integrated Public Health Information System (iPHIS) database, Coronavirus Rapid Entry System (CORES) 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 26, 2020

Indicator	Long-Term Care Homes	Hospitals
Number of confirmed COVID-19 outbreaks	170	54
Total number of cases ^{1,2,3} reported as part of the confirmed COVID-19 outbreaks	3,451	308
Cases reported among residents/patients	2,346	165
Cases reported among staff	1,101	140
Total number of deaths ^{1,2,3} reported as part of the confirmed COVID-19 outbreaks	498	19
Deaths reported among residents/patients	497	19
Deaths reported among staff	1	0

¹ 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).

² 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.

³ 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 (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 26, 2020 at 4 p.m.** and data extracted from the Toronto Public Health (Coronavirus Rapid Entry System) CORES, as of **April 26, 2020 at 2 p.m.**
- iPHIS and CORES are dynamic disease reporting systems, which allows ongoing updates to data previously entered. As a result, data extracted from iPHIS and CORES 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.

Data Caveats:

- The data only represent cases reported to public health and recorded in iPHIS and CORES. 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 CORES 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 [COVID-19 case definition](#) are included in the report counts from iPHIS or CORES.
- 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 CORES by examining the risk factor fields from CORES 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. 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=14,856) of COVID-19 by public health unit: Ontario, January 15, 2020 to April 26, 2020

Public Health Unit Name	Cases	Rate per 100,000 population
Northwestern Health Unit	16	18.2
Thunder Bay District Health Unit	65	43.3
TOTAL NORTH WEST	81	34.1
Algoma Public Health	13	11.4
North Bay Parry Sound District Health Unit	14	10.8
Porcupine Health Unit	57	68.3
Public Health Sudbury & Districts	50	25.1
Timiskaming Health Unit	12	36.7
TOTAL NORTH EAST	146	26.1
Ottawa Public Health	1,127	106.9
Eastern Ontario Health Unit	82	39.3
Hastings Prince Edward Public Health	39	23.1
Kingston, Frontenac and Lennox & Addington Public Health	58	27.3
Leeds, Grenville & Lanark District Health Unit	296	170.9
Renfrew County and District Health Unit	15	13.8
TOTAL EASTERN	1,617	83.9
Durham Region Health Department	873	122.5
Haliburton, Kawartha, Pine Ridge District Health Unit	156	82.6
Peel Public Health	2,163	134.7

Public Health Unit Name	Cases	Rate per 100,000 population
Peterborough Public Health	79	53.4
Simcoe Muskoka District Health Unit	251	41.9
York Region Public Health	1,379	112.5
TOTAL CENTRAL EAST	4,901	109.4
Toronto Public Health	4,430	142.0
TOTAL TORONTO	4,430	142.0
Chatham-Kent Public Health	46	43.3
Grey Bruce Health Unit	72	42.4
Huron Perth Public Health	41	29.3
Lambton Public Health	168	128.3
Middlesex-London Health Unit	379	74.7
Southwestern Public Health	56	26.5
Windsor-Essex County Health Unit	544	128.1
TOTAL SOUTH WEST	1,306	77.2
Brant County Health Unit	95	61.2
City of Hamilton Public Health Services	397	67.0
Haldimand-Norfolk Health Unit	170	149
Halton Region Public Health	426	68.8
Niagara Region Public Health	457	96.7
Region of Waterloo Public Health and Emergency Services	576	98.6
Wellington-Dufferin-Guelph Public Health	254	81.4
TOTAL CENTRAL WEST	2,375	83.4
TOTAL ONTARIO	14,856	99.9

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For Further Information

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