



COVID-19 Epidemiology Update

OTTAWA PUBLIC HEALTH. Report compiled on April 4, 2020, 11:00 am

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Purpose

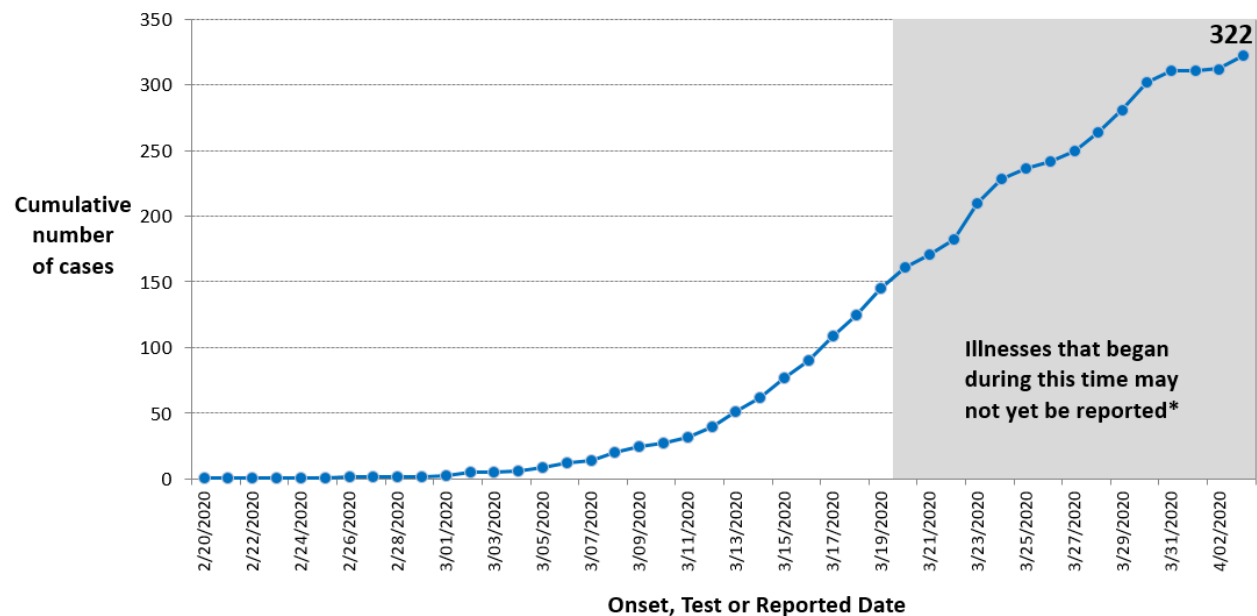
This daily report provides an epidemiologic summary of COVID-19 activity in Ottawa to date. The report includes the most current information available from the integrated Public Health Information System (iPHIS) and a chart review of COVID-19 cases as of 4:00 p.m. April 3, 2020.

Summary

- 322 laboratory-confirmed cases, including 4 deaths, have been reported in Ottawa.
- This includes 33 new cases and 1 new death since the previous report.
- 14% of cases have ever been hospitalized, including 6% ever in intensive care.
- The median age of cases is 48 years (range, 2 to 97 years).
- There are cases among residents from [6 institutions](#).
- The most common exposure settings for cases include: 13% with travel only, 11% with close contact with a case only, 5% with no travel and no known contact with a case, and 66% with exposure information pending.

Cases Over Time

Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19, by the earliest of onset date, test and reported date

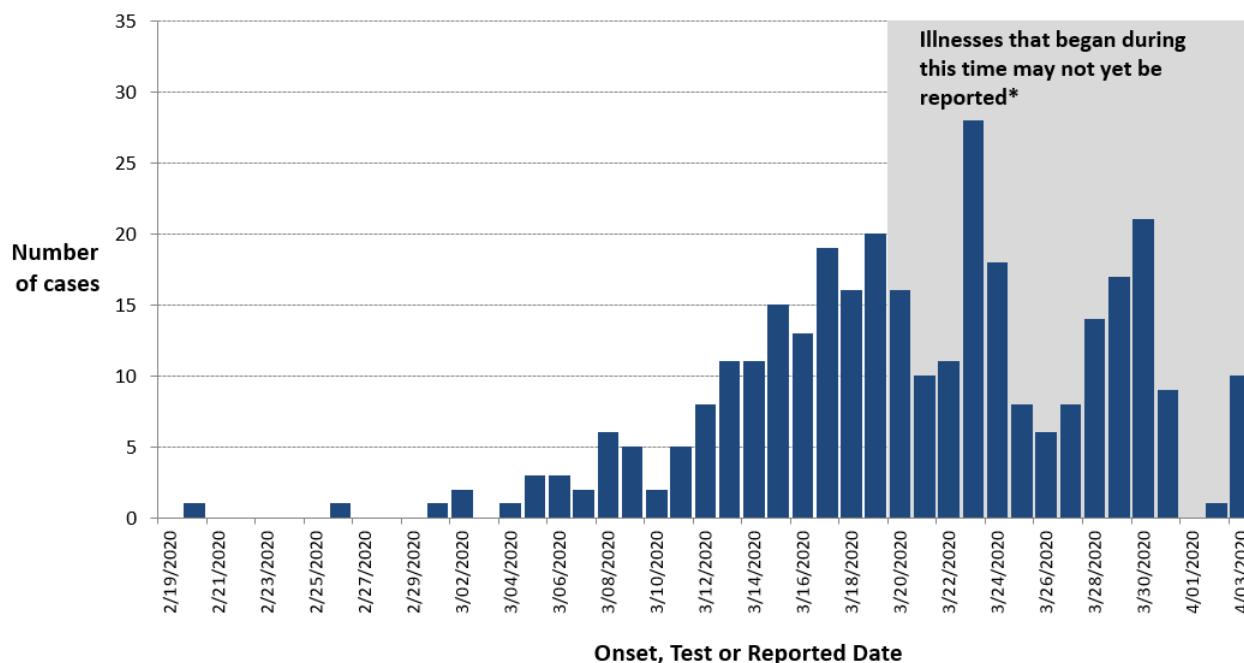


Notes:

1. Data are from iPHIS and a chart review of individuals with COVID-19 -positive laboratory results as of 4:00 p.m. on April 3, 2020. These results may differ from other sources because different reports extract data at different times.
2. The onset date is the earliest of symptom onset, laboratory testing, and reporting dates. This means that in the graph, cases are shown based on when the person's symptoms started, or if that is not known, then date that they were tested. If the test date is not known, the date that the case was reported to public health is used. As the case is investigated and new information on these dates is determined, the dates in the graph will be updated.
3. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.
4. A patient's exposure may have occurred up to 14 days prior to onset of symptoms.
5. *Symptomatic cases occurring in the last approximately 14 days are likely under-reported due to the time for individuals to seek medical assessment and for availability of testing and test results.



Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19, by the earliest of onset, test and reported date (n=322)



Notes:

1. Data are from iPHIS and a chart review of individuals with COVID-19 -positive laboratory results as of 4:00 p.m. on April 3, 2020. These results may differ from other sources because different reports extract data at different times.
2. The onset date is the earliest of symptom onset, laboratory testing, and reporting dates. This means that in the graph, cases are shown based on when the person’s symptoms started, or if that is not known, then date that they were tested. If the test date is not known, the date that the case was reported to public health is used. As the case is investigated and new information on these dates is determined, the dates in the graph will be updated daily.
3. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.
4. A patient’s exposure may have occurred up to 14 days prior to onset of symptoms.
5. *Symptomatic cases occurring in the last approximately 14 days are likely under-reported due to the time for individuals to seek medical assessment and for availability of testing and test results.



Case Characteristics

Table 1. Summary of confirmed Ottawa cases

Measure	Number	Percentage
Case count	322	-
Change from previous report	33	11% increase
Age, median (range)	48 years (2-97)	-
Age		
<5 years	1	<1%
5 to 19 years	4	1%
20 to 44 years	128	40%
45 to 64 years	122	38%
65 years and older	66	20%
	1	<1%
Gender		
Female	158	49%
Male	163	51%
Unknown	1	<1%
Health care workers and first responders ³	28	26% ³

Notes:

1. Data are from iPHIS and a chart review of individuals with COVID-19 -positive laboratory results as of 4:00 p.m. on April 3, 2020. These results may differ from other sources because different reports extract data at different times.
2. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.
3. Based on 109 cases with currently available occupation data. Note there is a bias to capturing health care worker status and this may be an overrepresentation of the proportion. This category includes staff in a health care setting who do not work directly with patients.



Severity of Cases

Table 2. Severity of confirmed Ottawa cases

Measure	Number	Percentage
Case count	322	-
Total ever hospitalized	44	14%
Currently in hospital	26	8%
Total ever in ICU	18	6%
Currently In ICU	12	4%
Deaths	4	1%
Resolved ³	41	13%

Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 3, 2020. The numbers may differ from other sources, as data are extracted at different times.
2. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.
3. Resolved cases are persons whose symptoms have resolved and who have been discharged from isolation as per the Ministry of Health Public Health Guidance on Testing and Clearing Cases. March 26, 2020. version 2.0.

Table 3. Age of confirmed Ottawa cases ever hospitalized or ever in intensive care (ICU)

Measure	Ever Hospitalized		Ever in ICU	
	Number	Percentage	Number	Percentage
Case count	44	14%	18	5%
Age, median (range)	65 years (29 to 97)		66 years (40 to 79)	
Age				
<5 years	0	0%	0	0%
5 to 19 years	0	0%	0	0%
20 to 44 years	5	11%	2	11%
45 to 64 years	16	36%	6	33%
65 years and older	23	52%	10	56%

Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 3, 2020. The numbers may differ from other sources, as data are extracted at different times.
2. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.



Exposure Settings

Table 4. Exposures of confirmed Ottawa COVID-19 cases

Exposure	Number	Percentage
Travel only	43	13%
Travel and contact with a case	13	4%
Contact with a case only	37	11%
Undetermined/pending	213	66%
No travel and no known contact with a known case	16	5%
TOTAL	322	

Notes:

1. Data as of 4:00 p.m. on April 3, 2020. Investigations are ongoing.
2. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.

Data Notes & Sources

Data extracted represent a snapshot at the time of extraction and may differ in previous or subsequent reports. These data sources are used:

- 1) Case information
 - a. Ontario Ministry of Health, integrated Public Health Information System (iPHIS), extracted by Ottawa Public Health at 4:00 p.m. each day. iPHIS is a dynamic disease reporting system that allows for ongoing updates to data previously entered. Data extracted from the iPHIS database represent a snapshot at the time of extraction and can be different in previous or subsequent reports.
 - b. OPH Public Health Medical Unit case management chart review

Please use the following citation when referencing this document:

Ottawa Public Health. COVID-19 Epidemiology Update. April 4, 2020. Ottawa (ON): Ottawa Public Health; 2020.

For further information about COVID-19 in Ottawa, visit ottawapublichealth.ca.



Data Tables

Data Table for Figure 1 and Figure 2

Onset, Test or Reported Date	Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19	Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19
	Total Confirmed COVID-19 Cases Over Time	Confirmed COVID-19 Cases by Date
2/19/2020	0	0
2/20/2020	1	1
2/21/2020	1	0
2/22/2020	1	0
2/23/2020	1	0
2/24/2020	1	0
2/25/2020	1	0
2/26/2020	2	1
2/27/2020	2	0
2/28/2020	2	0
2/29/2020	2	0
3/01/2020	3	1
3/02/2020	5	2
3/03/2020	5	0
3/04/2020	6	1
3/05/2020	9	3
3/06/2020	12	3
3/07/2020	14	2
3/08/2020	20	6
3/09/2020	25	5
3/10/2020	27	2
3/11/2020	32	5
3/12/2020	40	8
3/13/2020	51	11



3/14/2020	62	11
3/15/2020	77	15
3/16/2020	90	13
3/17/2020	109	19
3/18/2020	125	16
3/19/2020	145	20
3/20/2020	161	16
3/21/2020	171	10
3/22/2020	182	11
3/23/2020	210	28
3/24/2020	228	18
3/25/2020	236	8
3/26/2020	242	6
3/27/2020	250	8
3/28/2020	264	14
3/29/2020	281	17
3/30/2020	302	21
3/31/2020	311	9
4/01/2020	311	0
4/02/2020	312	1
4/03/2020	322	10

