



COVID-19 Epidemiology Update

OTTAWA PUBLIC HEALTH. Report compiled on April 19, 2020, 11:00 am

Contents

Purpose	0
Summary	0
Cases Over Time.....	1
Severity of Cases.....	2
Case Characteristics.....	3
Exposure Settings.....	4
Outbreaks	4
Data Notes & Sources	5
Data Tables	6

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 18, 2020.

Summary

- 803 laboratory-confirmed cases, including 23 deaths, have been reported in Ottawa.
- This includes 46 new cases and 1 new death since the previous report.
- 13% of cases have been hospitalized (cumulative), including 4% in intensive care (cumulative).
- The median age of cases is 50 years (range, 4 months to 105 years).
- There are 19 ongoing outbreaks in [institutions](#).
- The most common reported exposure settings for cases include: 46% with close contact with a case only, 20% with no travel and no known contact with a case, 15% with travel only, and 13% 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

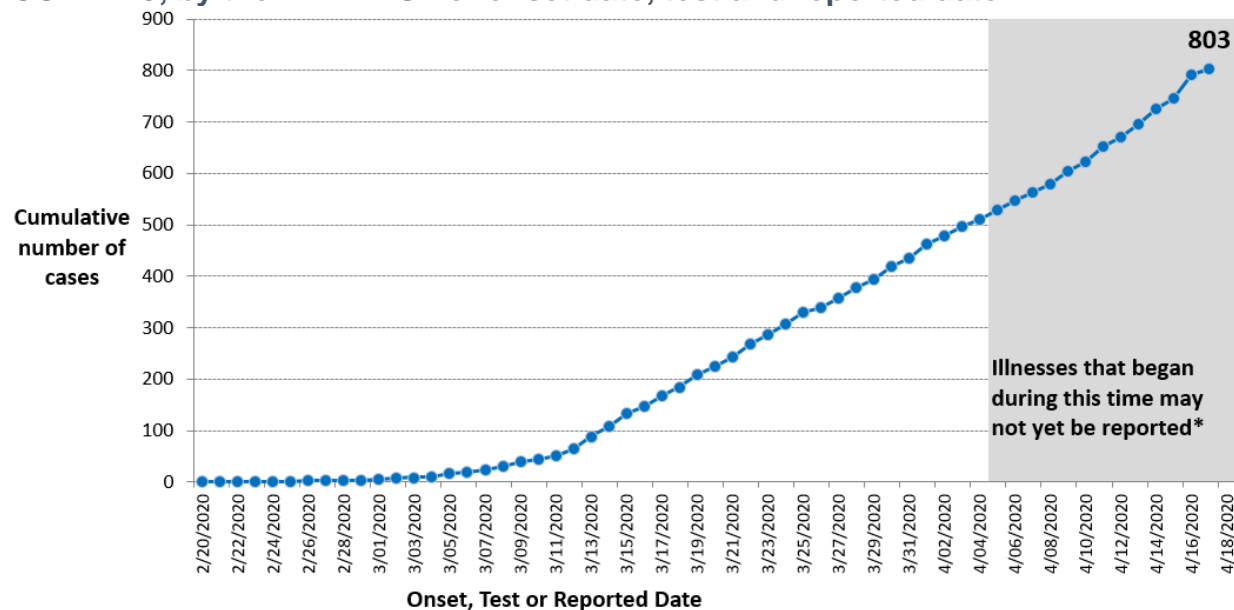
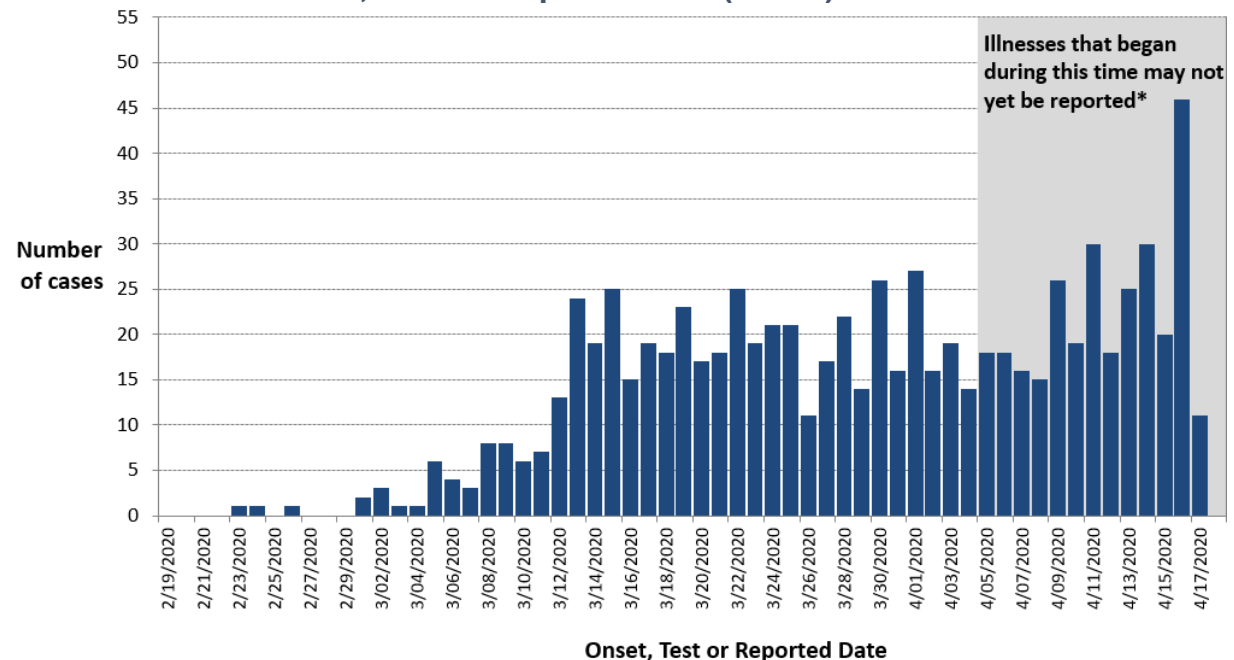


Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19, by the EARLIEST of onset, test and reported date (n=803)



Notes for Figure 1 and 2:

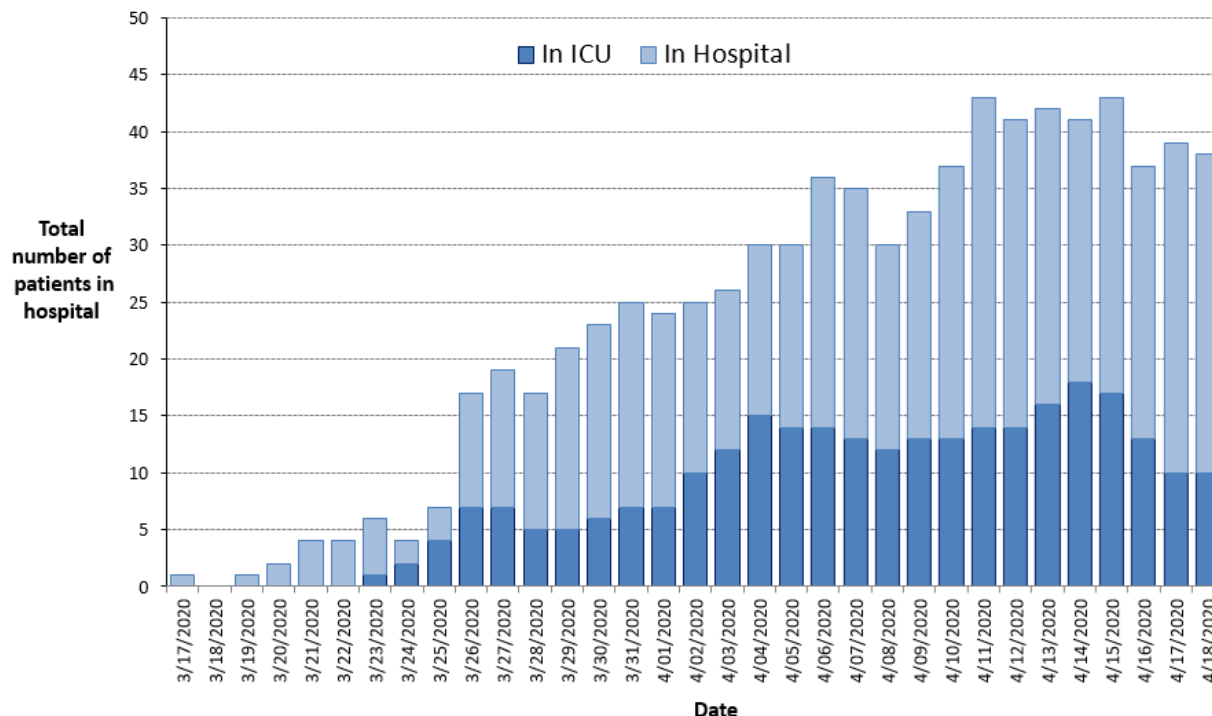
1. Data are from iPHIS and a chart review of individuals with COVID-19 -positive laboratory results as of 4:00 p.m. on April 18, 2020.
2. The onset date is the earliest of symptom onset, laboratory testing, and reporting dates. This means that in the graphs, cases are shown based on when the person's symptoms started, or if that is not known, the 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 more information is available, the dates in the graph are 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 approximately the last 14 days are likely under-reported due to the time for individuals to seek medical assessment, availability of testing, and receipt of test results.

Severity of Cases

Figure 3. Ottawa residents with confirmed COVID-19 currently in hospital or intensive care, by day



Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 pm on April 18, 2020.
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. The dark blue bars represent the number of patients currently in the ICU. The light blue bars represent the number of patients currently in hospital (excluding patients in the ICU).

Table 1. Severity of disease for Ottawa residents with confirmed COVID-19

Measure	Number	Percentage
All cases	803	
Cumulative hospitalized	104	13%
Currently in hospital	38	5%
Cumulative intensive care	32	4%
Currently in intensive care	10	1%
Deaths	23	3%
Resolved ⁴	338	42%

Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 18, 2020.



- 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.
- Intensive care patients are a subset of hospitalized patients.
- 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.

Case Characteristics

Table 2. Age, gender and occupation (health care worker or first responder) of Ottawa residents with confirmed COVID-19

Measure	Number	Percentage
Case count	803	-
Change from previous report	46	6% increase
Age, median (range)	50 years (4m-105y)	-
Age		
<5 years	7	1%
5 to 19 years	24	3%
20 to 44 years	292	36%
45 to 64 years	268	33%
65 years and older	212	26%
Unknown	0	0%
Gender		
Female	433	54%
Male	368	46%
Unknown	2	<1%
Health care workers and first responders	114	14%

Notes:

- Data are from iPHIS and a chart review of individuals with COVID-19 -positive laboratory results as of 4:00 p.m. on April 18, 2020.
- 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.

Table 3. Age of Ottawa residents with confirmed COVID-19 that have been hospitalized (cumulative) and in intensive care (cumulative) (n=803)

Measure	Cumulative Hospitalized		Cumulative Intensive Care	
	Number	Percentage	Number	Percentage
Case count	104	13%	32	4%
Age, median (range)	65 years (29 to 97)		64 years (37* to 83)	
Age				
<5 years	0	0%	0	0%
5 to 19 years	0	0%	0	0%
20 to 44 years	12*	12%	4*	13%
45 to 64 years	39	38%	12	38%
65 years and older	53	51%	16	50%

Notes:



1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 18, 2020.
2. Intensive care patients are a subset of hospitalized patients.
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. *Two individuals previously miscategorized as 20-44 year-olds have been corrected as of April 17, 2020.

Exposure Settings

Table 4. Exposures of Ottawa residents with confirmed COVID-19

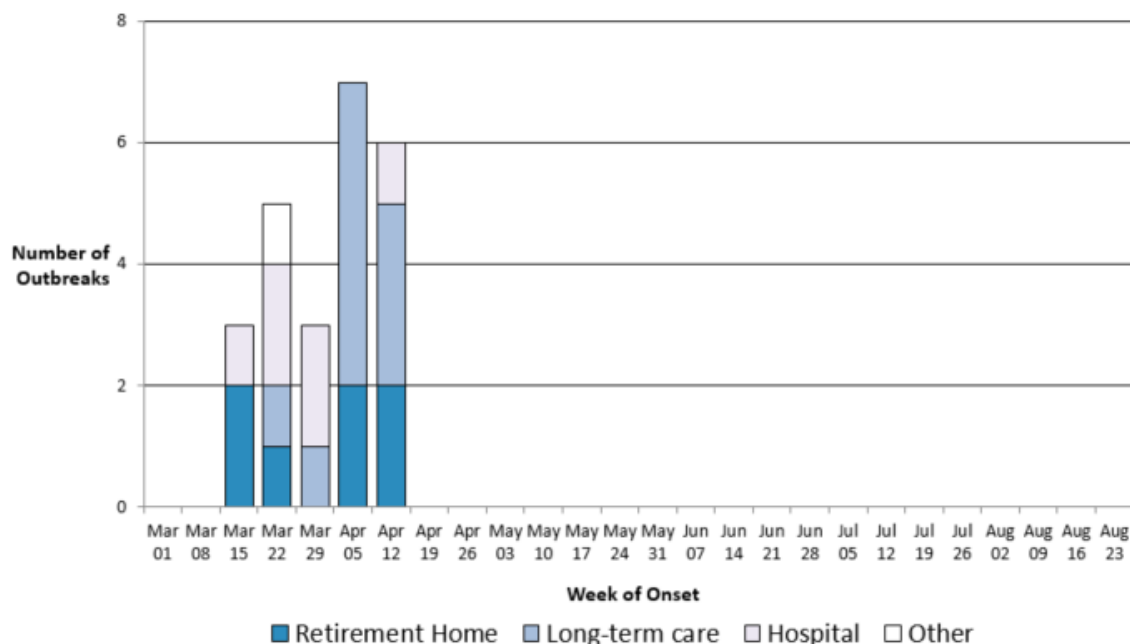
Exposure	Number	Percentage
Travel only	122	15%
Travel and contact with a case	44	5%
Contact with a case only	370	46%
No travel and no known contact with a known case	163	20%
Undetermined/pending	104	13%
TOTAL	803	

Notes:

1. Data as of 4:00 p.m. on April 18, 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.

Outbreaks

Figure 4. Total number of COVID-19 outbreaks in Ottawa institutions²



1. Data as of 4:00 pm on April 18, 2020. Four outbreaks are closed and 16 are active. Investigation and data entry are ongoing.
2. Institutions include long-term care homes, retirement homes, group homes (other) and public hospitals.



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 19, 2020. Ottawa (ON): Ottawa Public Health; 2020.

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



Data Tables

Data Table for Figures 1 and 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	Confirmed COVID-19 Cases by Date
2/19/2020	0	0
2/20/2020	0	0
2/21/2020	0	0
2/22/2020	0	0
2/23/2020	0	0
2/24/2020	0	0
2/25/2020	0	0
2/26/2020	0	0
2/27/2020	0	0
2/28/2020	0	0
2/29/2020	0	0
3/01/2020	0	0
3/02/2020	0	0
3/03/2020	0	0
3/04/2020	0	0
3/05/2020	0	0
3/06/2020	0	0
3/07/2020	0	0
3/08/2020	0	0
3/09/2020	0	0
3/10/2020	1	1
3/11/2020	1	0
3/12/2020	3	2
3/13/2020	4	1
3/14/2020	11	7
3/15/2020	13	2
3/16/2020	13	0
3/17/2020	17	4



3/18/2020	19	2
3/19/2020	20	1
3/20/2020	21	1
3/21/2020	27	6
3/22/2020	33	6
3/23/2020	38	5
3/24/2020	43	5
3/25/2020	51	8
3/26/2020	75	24
3/27/2020	106	31
3/28/2020	122	16
3/29/2020	130	8
3/30/2020	144	14
3/31/2020	194	50
4/01/2020	252	58
4/02/2020	289	37
4/03/2020	322	33
4/04/2020	345	23
4/05/2020	370	25
4/06/2020	403	33
4/07/2020	429	26
4/08/2020	458	29
4/09/2020	494	36
4/10/2020	524	30
4/11/2020	561	37
4/12/2020	586	25
4/13/2020	619	33
4/14/2020	643	24
4/15/2020	678	35
4/16/2020	728	50
4/17/2020	757	29
4/18/2020	803	46



Data Table for Figure 3

Date	Number of Ottawa residents with confirmed COVID-19 in hospital	Number of Ottawa residents with confirmed COVID-19 in intensive care
3/17/2020	1	0
3/18/2020	0	0
3/19/2020	1	0
3/20/2020	2	0
3/21/2020	4	0
3/22/2020	4	0
3/23/2020	6	1
3/24/2020	5	2
3/25/2020	7	4
3/26/2020	17	7
3/27/2020	19	7
3/28/2020	18	5
3/29/2020	21	5
3/30/2020	23	6
3/31/2020	25	7
4/01/2020	24	7
4/02/2020	25	10
4/03/2020	26	12
4/04/2020	30	15
4/05/2020	30	14
4/06/2020	36	14
4/07/2020	35	13
4/08/2020	30	12
4/09/2020	33	13
4/10/2020	37	13
4/11/2020	43	14
4/12/2020	41	14
4/13/2020	42	16
4/14/2020	41	18
4/15/2020	43	17
4/16/2020	37	13



4/17/2020	39	10
4/18/2020	38	10



Data Table for Figure 4

Week of symptom onset	Number of outbreaks in Ottawa retirement homes	Number of outbreaks in long-term care/ nursing homes in Ottawa	Number of outbreaks in Ottawa hospitals	Number of outbreaks in other Ottawa institutions
Mar 01	0	0	0	0
Mar 08	0	0	0	0
Mar 15	0	0	0	0
Mar 22	0	0	1	0
Mar 29	0	1	1	0
Apr 05	2	5	0	0
Apr 12	2	3	1	0
Apr 19				
Apr 26				
May 03				
May 10				
May 17				
May 24				
May 31				
Jun 07				
Jun 14				
Jun 21				
Jun 28				
Jul 05				
Jul 12				
Jul 19				
Jul 26				
Aug 02				
Aug 09				
Aug 16				
Aug 23				

