



COVID-19 Epidemiology Update

OTTAWA PUBLIC HEALTH. Report compiled on April 23, 2020, 11:00 am

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Purpose

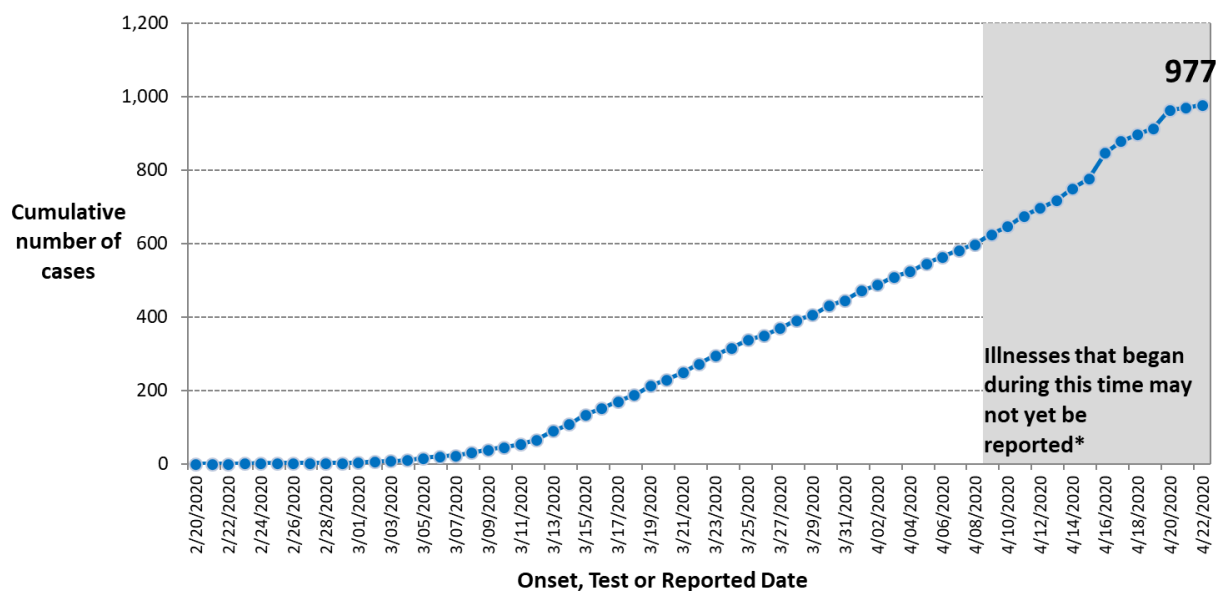
This daily report provides an epidemiologic summary of COVID-19 activity in Ottawa to date. The report includes the most current information available from the integrated Public Health Information System (iPHIS) and a chart review of COVID-19 cases as of 4:00 p.m. April 22, 2020.

Summary

- 977 laboratory-confirmed cases, including 35 deaths, have been reported in Ottawa.
- This includes 34 new cases and 3 new deaths since the previous report.
- 11% of cases have been hospitalized (cumulative), including 3% in intensive care (cumulative).
- The median age of cases is 52 years (range, 4 months to 105 years).
- There are 20 ongoing outbreaks in [institutions](#).
- The most common reported exposure settings for cases include: 55% with close contact with a case only, 18% with no travel and no known contact with a case, 13% with travel only, and 9% 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

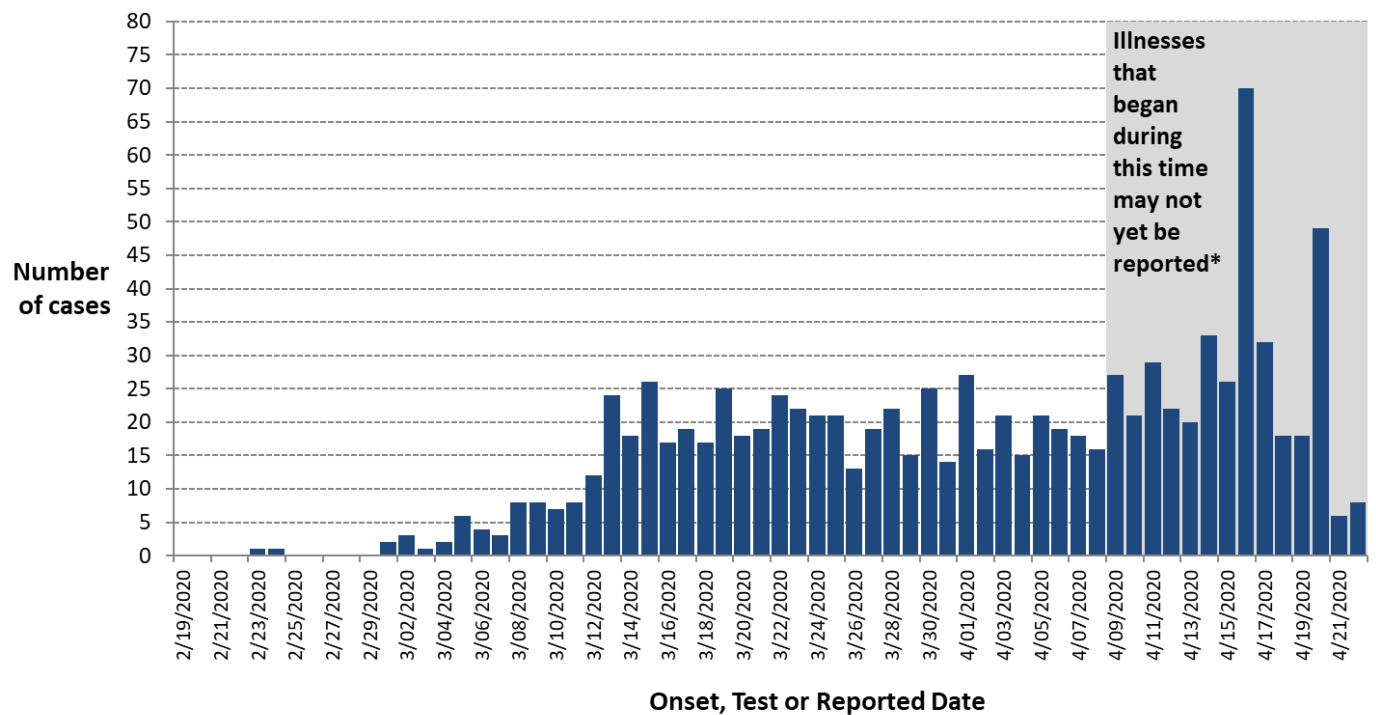


Notes:

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 22, 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.



Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19, by the EARLIEST of onset, test and reported date (n=977)



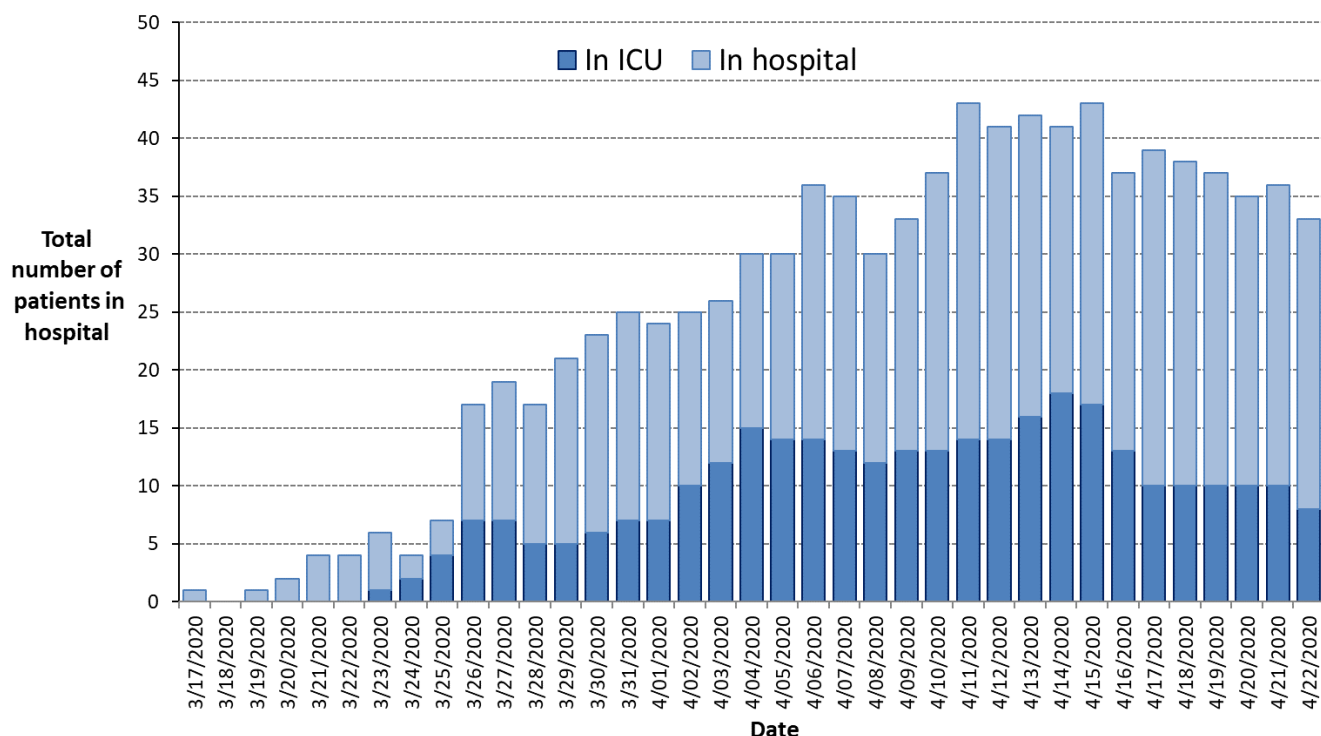
Notes:

2. Data are from iPHIS and a chart review of individuals with COVID-19 -positive laboratory results as of 4:00 p.m. on April 22, 2020.
3. 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.
6. 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.
7. A patient’s exposure may have occurred up to 14 days prior to onset of symptoms.
8. *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 22, 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	977	
Cumulative hospitalized	109	11%
Currently in hospital	33	3%
Cumulative intensive care	34	3%
Currently in intensive care	8	1%
Deaths	35	4%
Resolved ⁴	405	41%

Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 22, 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. 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	977	-
Change from previous report	34	4% increase
Age, median (range)	52 years (4m-105y)	-
Age		
<5 years	7	1%
5 to 19 years	29	3%
20 to 44 years	319	33%
45 to 64 years	320	33%
65 years and older	302	31%
Unknown	0	0%
Gender		
Female	540	55%
Male	437	45%
Unknown	0	0%
Health care workers and first responders	159	16%

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 22, 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=977)

Measure	Cumulative Hospitalized		Cumulative Intensive Care	
	Number	Percentage	Number	Percentage
Case count	109	11%	34	3%
Age, median (range)	66 years (29 to 98)		62 years (37* to 83)	
Age				
<5 years	0	0%	0	0%
5 to 19 years	0	0%	0	0%
20 to 44 years	12*	11%	5*	15%
45 to 64 years	41	38%	12	35%
65 years and older	56	51%	17	50%

Notes:

- Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 22, 2020.
- Intensive care patients are a subset of hospitalized patients.



- 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.
- *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

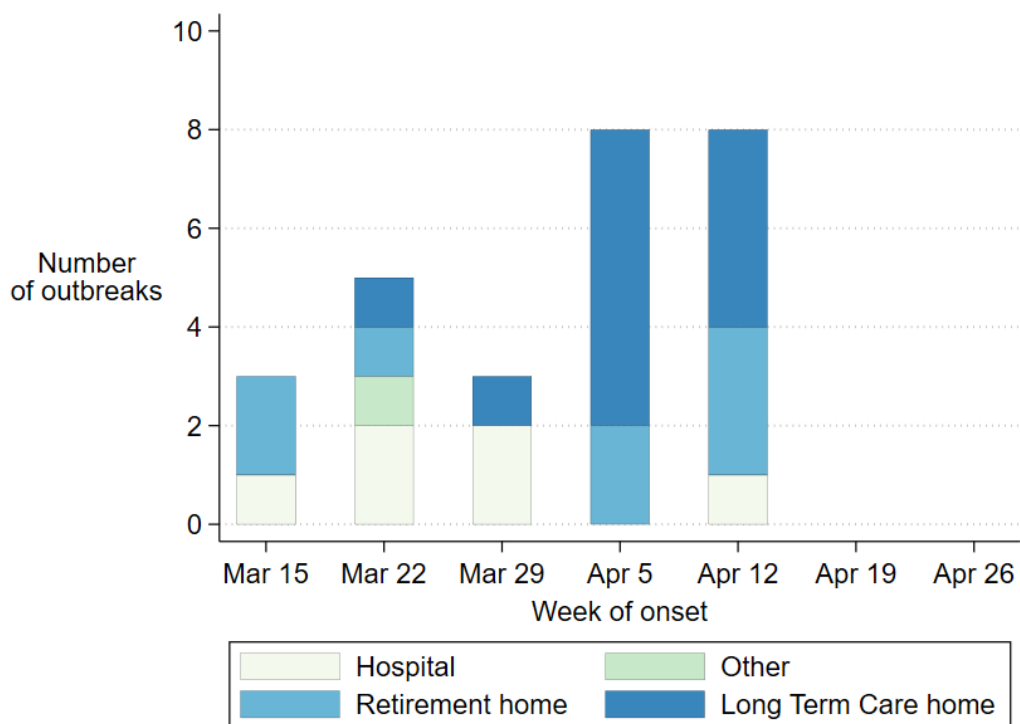
Exposure	Number	Percentage
Travel only	123	13%
Travel and contact with a case	47	5%
Contact with a case only	541	55%
No travel and no known contact with a known case	179	18%
Undetermined/pending	87	9%
TOTAL	977	

Notes:

- Data as of 4:00 p.m. on April 22, 2020. Investigations are ongoing.
- 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



- Data as of 4:00 pm on April 22, 2020.
- Seven outbreaks are closed and 20 are active. Investigation and data entry are ongoing.
- 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 23, 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	1	1
2/24/2020	2	1
2/25/2020	2	0
2/26/2020	2	0
2/27/2020	2	0
2/28/2020	2	0
2/29/2020	2	0
3/01/2020	4	2
3/02/2020	7	3
3/03/2020	8	1
3/04/2020	10	2
3/05/2020	16	6
3/06/2020	20	4
3/07/2020	23	3
3/08/2020	31	8
3/09/2020	39	8
3/10/2020	46	7
3/11/2020	54	8
3/12/2020	66	12
3/13/2020	90	24
3/14/2020	108	18
3/15/2020	134	26
3/16/2020	151	17
3/17/2020	170	19



Onset, Test or Reported Date	Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19 Total Confirmed COVID-19 Cases	Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19 Confirmed COVID-19 Cases by Date
3/18/2020	187	17
3/19/2020	212	25
3/20/2020	230	18
3/21/2020	249	19
3/22/2020	273	24
3/23/2020	295	22
3/24/2020	316	21
3/25/2020	337	21
3/26/2020	350	13
3/27/2020	369	19
3/28/2020	391	22
3/29/2020	406	15
3/30/2020	431	25
3/31/2020	445	14
4/01/2020	472	27
4/02/2020	488	16
4/03/2020	509	21
4/04/2020	524	15
4/05/2020	545	21
4/06/2020	564	19
4/07/2020	582	18
4/08/2020	598	16
4/09/2020	625	27
4/10/2020	646	21
4/11/2020	675	29
4/12/2020	697	22
4/13/2020	717	20
4/14/2020	750	33
4/15/2020	776	26
4/16/2020	846	70



Onset, Test or Reported Date	Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19 Total Confirmed COVID-19 Cases	Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19 Confirmed COVID-19 Cases by Date
4/17/2020	878	32
4/18/2020	896	18
4/19/2020	914	18
4/20/2020	963	49
4/21/2020	969	6
4/22/2020	977	8



Data Table for Figure 3

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



Date	Number of Ottawa residents with confirmed COVID-19 in hospital, excluding ICU	Number of Ottawa residents with confirmed COVID-19 in ICU	Number of Ottawa residents with confirmed COVID-19 in hospital, including ICU
4/16/2020	24	13	37
4/17/2020	29	10	39
4/18/2020	28	10	38
4/19/2020	27	10	37
4/20/2020	25	10	35
4/21/2020	26	10	36
4/22/2020	25	8	33



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	2	0	1	0
Mar 08	1	1	2	1
Mar 15	0	1	2	0
Mar 22	2	6	0	0
Mar 29	3	4	1	0
Apr 05	0	0	0	0
Apr 12	0	0	0	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				

