



# COVID-19 Epidemiology Update

OTTAWA PUBLIC HEALTH. Report compiled on April 25, 2020, 11:00 am

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## Purpose

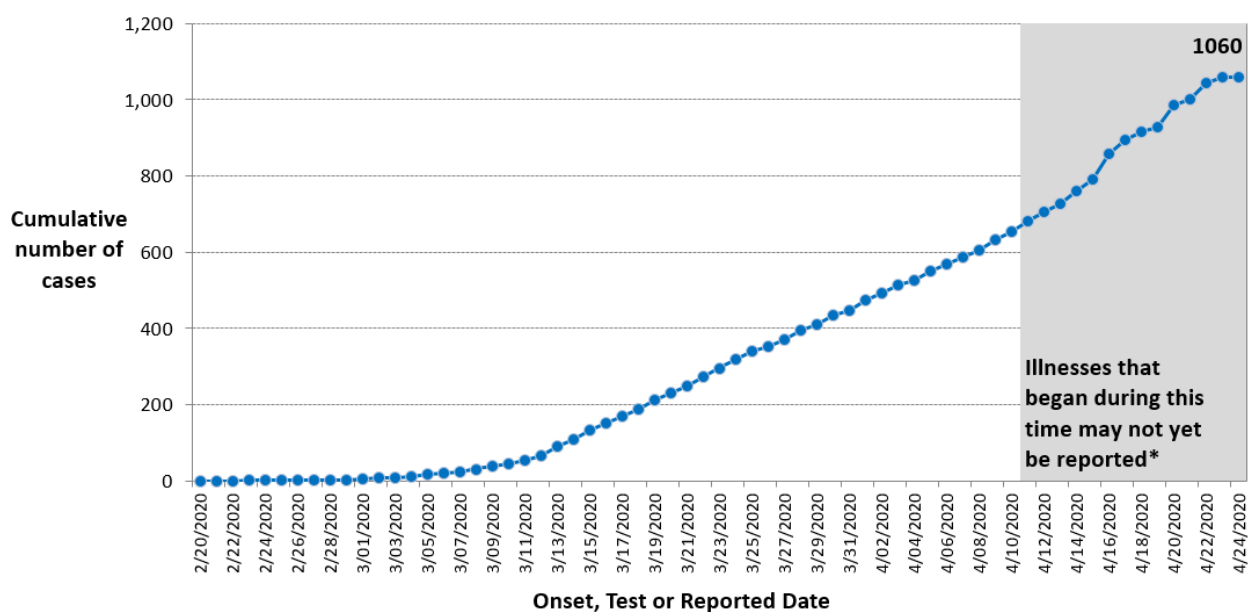
This daily report provides an epidemiologic summary of COVID-19 activity in Ottawa to date. The report includes the most current information available from the integrated Public Health Information System (iPHIS) and a chart review of COVID-19 cases as of 4:00 p.m. April 24, 2020.

## Summary

- 1060 laboratory-confirmed cases, including 50 deaths, have been reported in Ottawa.
- This includes 26 new cases and 8 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 53 years (range, 4 months to 105 years).
- There are 23 ongoing outbreaks in [institutions](#).
- The most common reported exposure settings for cases include: 59% with close contact with a case only, 17% with no travel and no known contact with a case, 12% with travel only, and 8% 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**

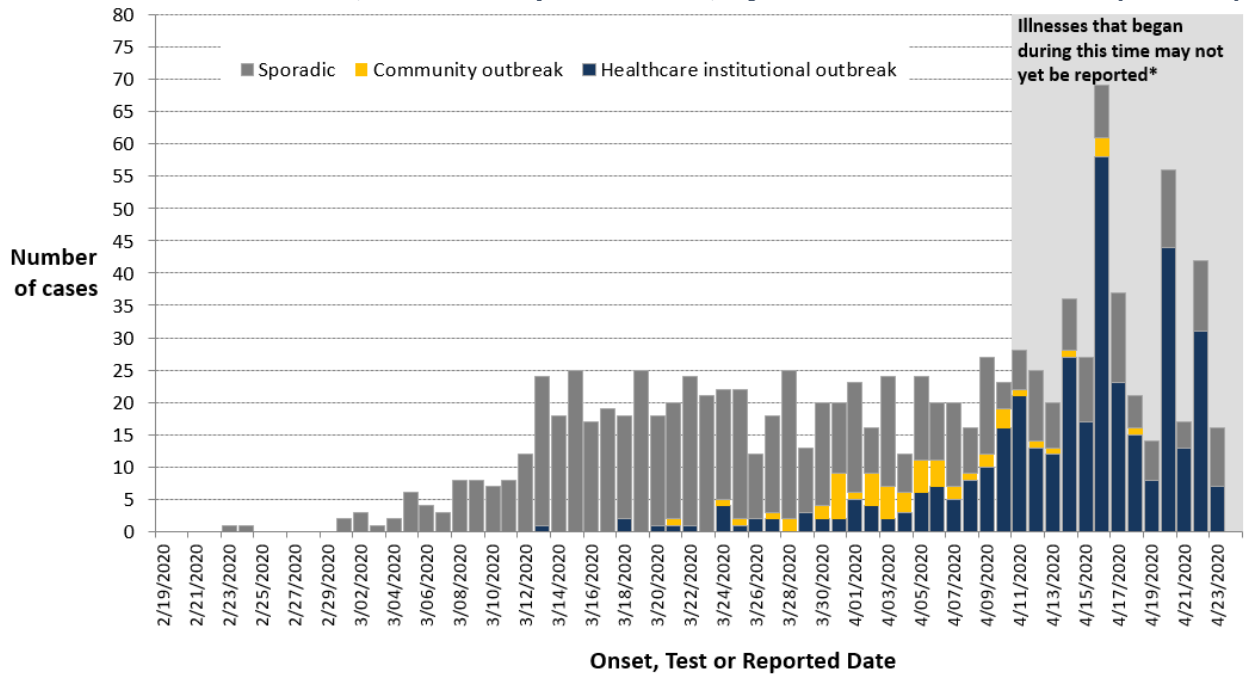


### Notes:

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 24, 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, by outbreak association† (n=1060)**



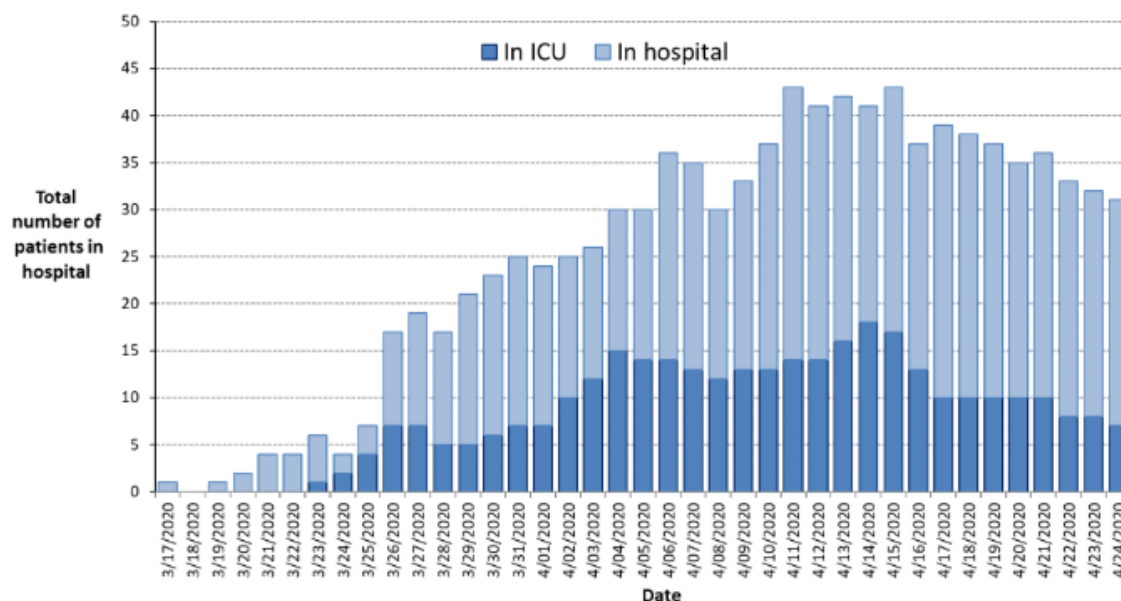
**Notes:**

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 24, 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. †Cases are associated with a specific, isolated community outbreak; a healthcare institutional outbreak; or no known outbreak (i.e., sporadic).
5. A patient’s exposure may have occurred up to 14 days prior to onset of symptoms.
6. \*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 24, 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
<b>All cases</b>	<b>1060</b>	
Cumulative hospitalized	114	11%
Currently in hospital	31	3%
Cumulative intensive care	35	3%
Currently in intensive care	7	1%
Deaths	50	5%
Resolved <sup>4</sup>	453	43%

### Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 24, 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.
4. 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	1060	-
Change from previous report	26	3% increase
Age, median (range)	53 years (4m-105y)	-
Age		
<5 years	7	1%
5 to 19 years	31	3%
20 to 44 years	339	32%
45 to 64 years	344	32%
65 years and older	339	32%
Unknown	0	0%
Gender		
Female	593	56%
Male	467	44%
Unknown	593	56%
Health care workers and first responders	192	18%

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 24, 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.

**Table 3. Age of Ottawa residents with confirmed COVID-19 that have been hospitalized (cumulative) and in intensive care (cumulative) (n=1060)**

Measure	Cumulative Hospitalized		Cumulative Intensive Care	
	Number	Percentage	Number	Percentage
Case count	114	11%	35	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	14%
45 to 64 years	43	38%	13	37%
65 years and older	59	52%	17	49%

Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 24, 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.



## Exposure Settings

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

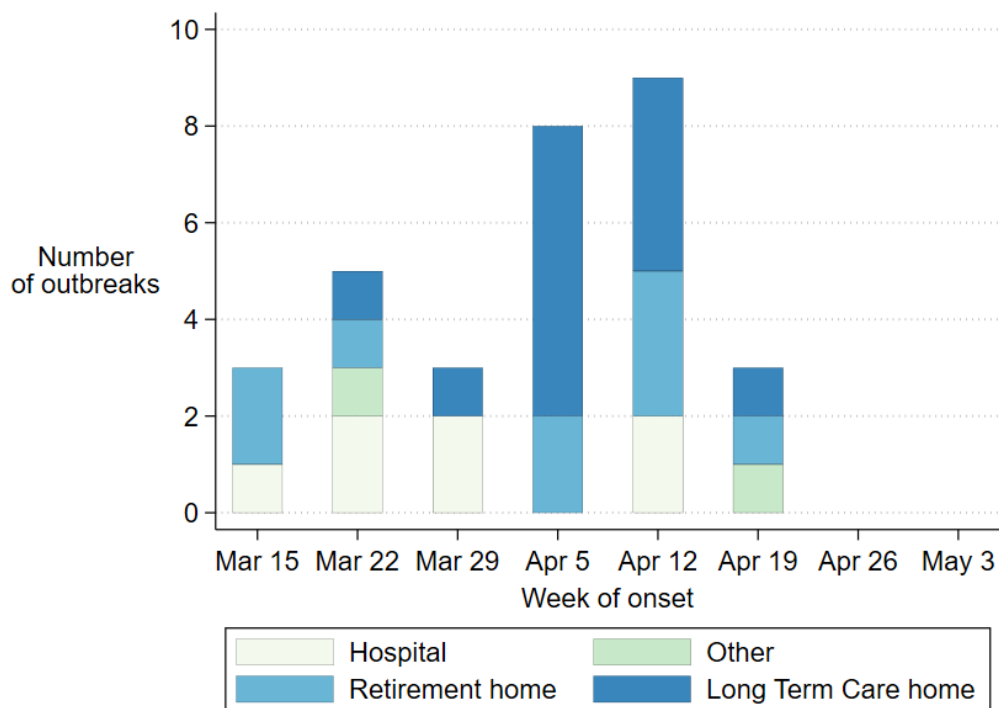
Exposure	Number	Percentage
Travel only	124	12%
Travel and contact with a case	50	5%
Contact with a case only	624	59%
No travel and no known contact with a known case	180	17%
Undetermined/pending	82	8%
<b>TOTAL</b>	<b>1060</b>	

Notes:

1. Data as of 4:00 p.m. on April 24, 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 institutions<sup>2</sup>**



1. Data as of 4:00 pm on April 24, 2020.
2. Eight outbreaks are closed and 23 are active. Investigation and data entry are ongoing.
3. 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 25, 2020. Ottawa (ON): Ottawa Public Health; 2020.

**For further information about COVID-19 in Ottawa,** visit [ottawapublichealth.ca](https://ottawapublichealth.ca).



## Data Tables

### Data Table for Figures 1 and 2

<b>Onset, Test or Reported Date</b>	<b>Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19  Total Confirmed COVID-19 Cases</b>	<b>Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19  Confirmed COVID-19 Cases by Date</b>
2/19/2020	0	0
2/20/2020	0	0
2/21/2020	0	0
2/22/2020	0	0
2/23/2020	1	0
2/24/2020	2	0
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	0
3/02/2020	7	0
3/03/2020	8	0
3/04/2020	10	0
3/05/2020	16	0
3/06/2020	20	0
3/07/2020	23	0
3/08/2020	31	1
3/09/2020	39	1
3/10/2020	46	0
3/11/2020	54	2
3/12/2020	66	3
3/13/2020	90	1
3/14/2020	108	2
3/15/2020	133	4
3/16/2020	150	2
3/17/2020	169	6





<b>Onset, Test or Reported Date</b>	<b>Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19  Total Confirmed COVID-19 Cases</b>	<b>Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19  Confirmed COVID-19 Cases by Date</b>
3/18/2020	187	7
3/19/2020	212	1
3/20/2020	231	3
3/21/2020	250	3
3/22/2020	274	7
3/23/2020	296	10
3/24/2020	318	8
3/25/2020	339	7
3/26/2020	352	20
3/27/2020	371	25
3/28/2020	394	26
3/29/2020	409	10
3/30/2020	434	45
3/31/2020	448	52
4/01/2020	475	39
4/02/2020	491	32
4/03/2020	513	25
4/04/2020	527	16
4/05/2020	550	42
4/06/2020	568	39
4/07/2020	587	23
4/08/2020	604	26
4/09/2020	632	23
4/10/2020	653	36
4/11/2020	681	34
4/12/2020	706	35
4/13/2020	726	16
4/14/2020	761	33
4/15/2020	791	59
4/16/2020	857	20



<b>Onset, Test or Reported Date</b>	<b>Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19  Total Confirmed COVID-19 Cases</b>	<b>Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19  Confirmed COVID-19 Cases by Date</b>
4/17/2020	895	71
4/18/2020	915	33
4/19/2020	929	38
4/20/2020	985	18
4/21/2020	1002	48
4/22/2020	1044	39
4/23/2020	1060	48
4/24/2020	1060	21



**Data Table for Figure 3**

<b>Date</b>	<b>Number of Ottawa residents with confirmed COVID-19 in hospital, excluding ICU</b>	<b>Number of Ottawa residents with confirmed COVID-19 in ICU</b>	<b>Number of Ottawa residents with confirmed COVID-19 in hospital, including ICU</b>
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
4/23/2020	24	8	32
4/24/2020	24	7	31



**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 15	2	0	1	0
Mar 22	1	1	2	1
Mar 29	0	1	2	0
Apr 05	2	6	0	0
Apr 12	3	4	2	0
Apr 19	1	1	0	1
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				

