



# COVID-19 Epidemiology Update

OTTAWA PUBLIC HEALTH. Report compiled on May 9, 2020, 11:00 am

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Ottawa Public Health (OPH) is transitioning to a new case management and reporting system. This transition will position OPH to better manage COVID-19 case volumes, facilitate remote work options for the case management team, and continue to uphold provincial reporting obligations. To support the transition, OPH is currently conducting quality assurance to validate the data in the new system. In the interim, a condensed report will be posted until the transition is complete.



## Purpose

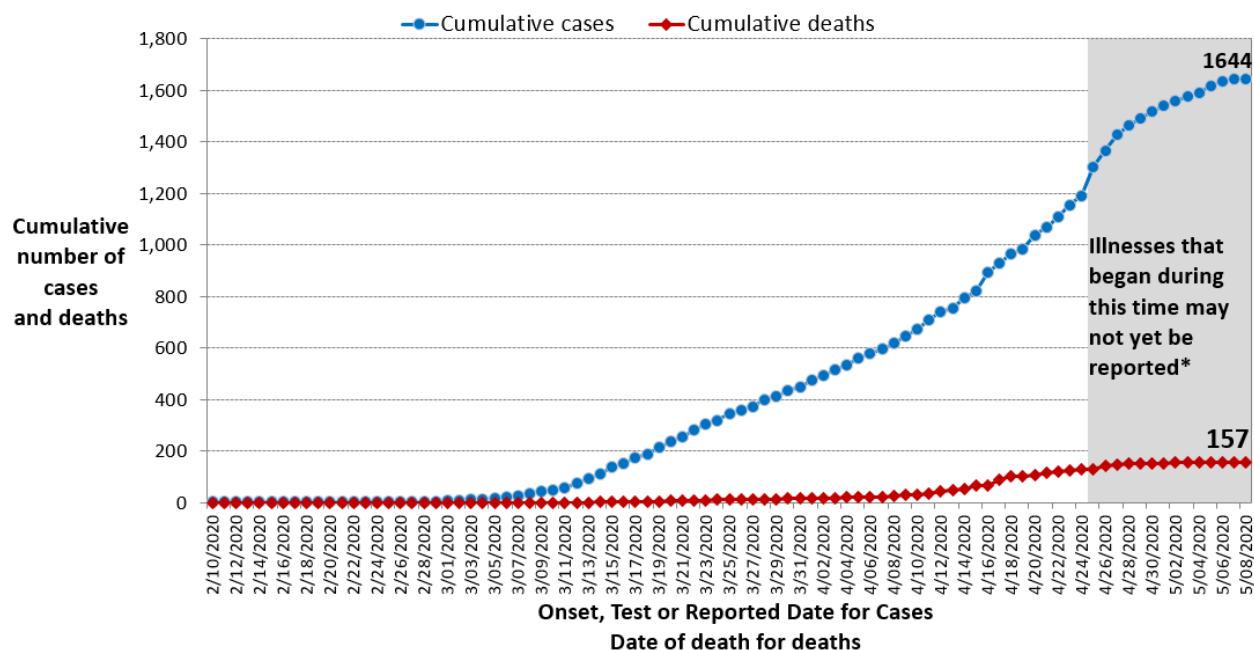
This daily report provides an epidemiologic summary of COVID-19 activity in Ottawa to date. The report includes the most current information available from the COVID-19 Ottawa Database (COD) as of 2:00 pm May 8, 2020 and the integrated Public Health Information System (iPHIS) as of 4:00 p.m. May 8, 2020.

## Summary

- 1,644 laboratory-confirmed cases, including 157 deaths, have been reported in Ottawa.
- This includes 41 new cases and 9 new deaths since the previous report.
- There are 23 ongoing outbreaks in [institutions](#).

## 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 or date of death**

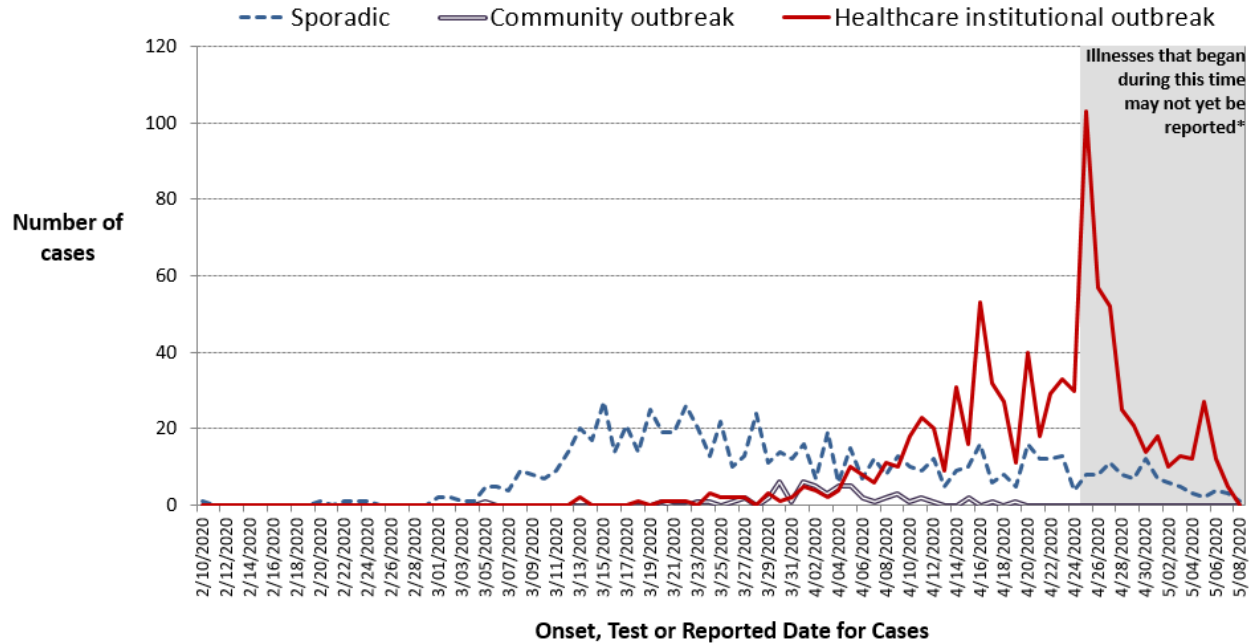


### Notes:

1. Data are from the COD as of 2:00 p.m. on May 8, 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=1,644)**



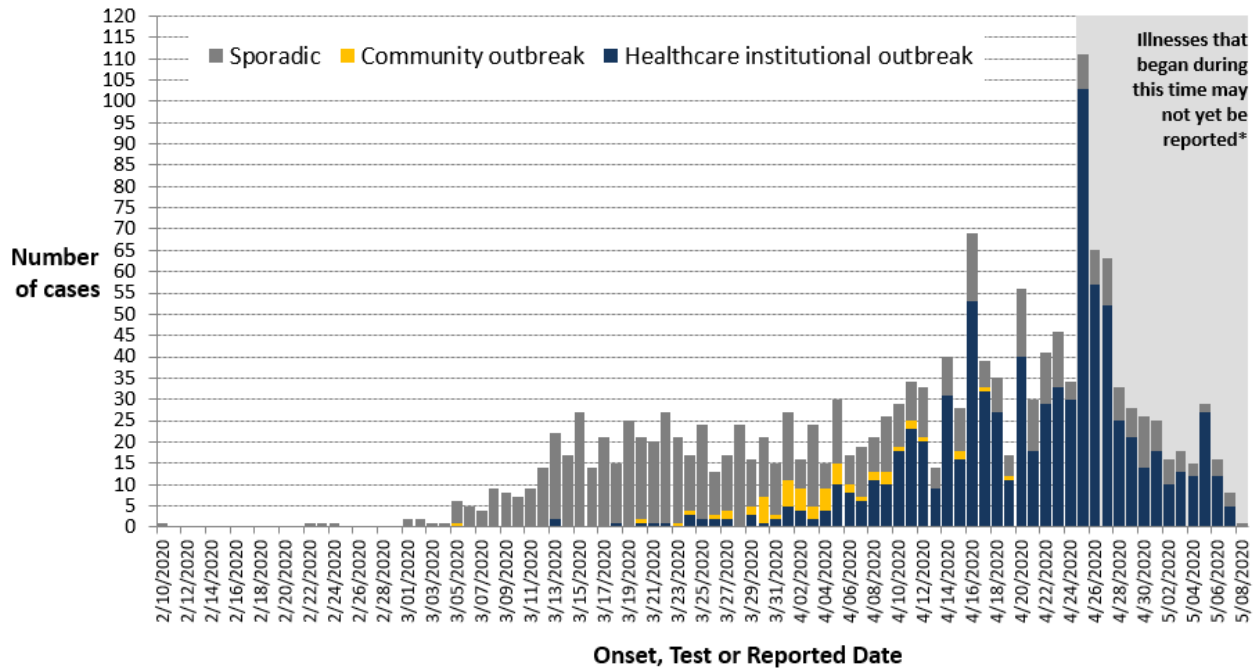
**Notes:**

1. Data are from the COD as of 2:00 p.m. on May 8, 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. †Cases are associated with a specific, isolated community outbreak; a healthcare institutional outbreak; or no known outbreak (i.e., sporadic).
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.
6. Healthcare institutions include long term care facilities, retirement homes, and hospitals.
1. The province has had to limit testing to priority groups. Since only a small fraction of all the persons who were infected with the COVID-19 virus were tested, the number of reported confirmed community cases underestimates the actual number of infections. Information on overall infection rates in Canada will not be available until large studies on COVID-19 antibody presence in blood serum are conducted. Based on available information, the actual number of infections may lie from 5 to 30 times or more than the reported number of cases.<sup>1</sup>

<sup>1</sup> Richterich P. Severe underestimation of COVID-19 case numbers: Effect of epidemic growth rate and test restrictions. *medRxiv*. April 2020: 2020.04.13. doi.org/10.1101/2020.04.13.20064220



**Figure 3. Epidemiological curve of Ottawa residents with confirmed COVID-19, by the EARLIEST of onset, test and reported date, by outbreak association† (n=1,644)**



**Notes:**

1. Data are from the COD as of 2:00 p.m. on May 8, 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. †Cases are associated with a specific, isolated community outbreak; a healthcare institutional outbreak; or no known outbreak (i.e., sporadic).
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.
6. Healthcare institutions include long term care facilities, retirement homes, and hospitals.
7. The province has had to limit testing to priority groups. Since only a small fraction of all the persons who were infected with the COVID-19 virus were tested, the number of reported confirmed community cases underestimates the actual number of infections. Information on overall infection rates in Canada will not be available until large studies on COVID-19 antibody presence in blood serum are conducted. Based on available information, the actual number of infections may lie from 5 to 30 times or more than the reported number of cases.<sup>2</sup>

<sup>2</sup> Richterich P. Severe underestimation of COVID-19 case numbers: Effect of epidemic growth rate and test restrictions. *medRxiv*. April 2020: 2020.04.13. doi.org/10.1101/2020.04.13.20064220



## Case Characteristics

**Table 1. Age, gender and occupation (health care worker or first responder) of Ottawa residents with confirmed COVID-19**

Measure	Number	Percentage
Case count	1,644	-
Change from previous report	41	3% increase
Age, median (range)	57 years (4m-105y)	-
<b>Age</b>		
0-9 years	15	1%
10-19 years	37	2%
20 to 29 years	154	9%
30 to 39 years	201	12%
40 to 49 years	231	14%
50 to 59 years	245	15%
60 to 69 years	213	13%
70 to 79 years	148	9%
80 to 89 years	216	13%
90+ years	182	11%
Unknown	2	<1%
<b>Gender</b>		
Female	970	59%
Male	671	41%
Unknown	3	<1%
Health care workers and first responders	427	26%

Note:

1. Data are from the COD as of 2:00 p.m. on May 8, 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 2. Outcome of disease for Ottawa residents with confirmed COVID-19**

Measure	Number	Percentage
<b>All cases</b>	<b>1644</b>	<b>-</b>
Ongoing	468	28%
Deaths	157	9.5%
Resolved <sup>3</sup>	1019	62%

Notes:

1. Data are from the COD as of 2:00 p.m. on May 8, 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. As per provincial practice, 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 the COD. This represents a change from all previous reports that relied solely on the classification in the COD/iPHIS and increases the number classified as Resolved.



**Table 3. Age, gender and occupation (health care worker or first responder) of Ottawa residents with confirmed COVID-19 who have died**

<b>Measure</b>	<b>Number</b>	<b>Percentage</b>
Cumulative cases	1,644	
Cumulative deaths	157	9.5%
Change from previous report	9	6% increase
Age, median (range)	87 years (39-105)	
<b>Age</b>		
0-9 years	0	0%
10 to 19 years	0	0%
20 to 29 years	0	0%
30 to 39 years	1	1%
40 to 49 years	0	0%
50 to 59 years	5	3%
60 to 69 years	9	6%
70 to 79 years	22	14%
80 to 89 years	61	38%
90+ years	59	38%
Unknown	0	0%
<b>Gender</b>		
Female	83	53%
Male	73	47%
Unknown	1	1%
Healthcare workers and first responders	1	1%

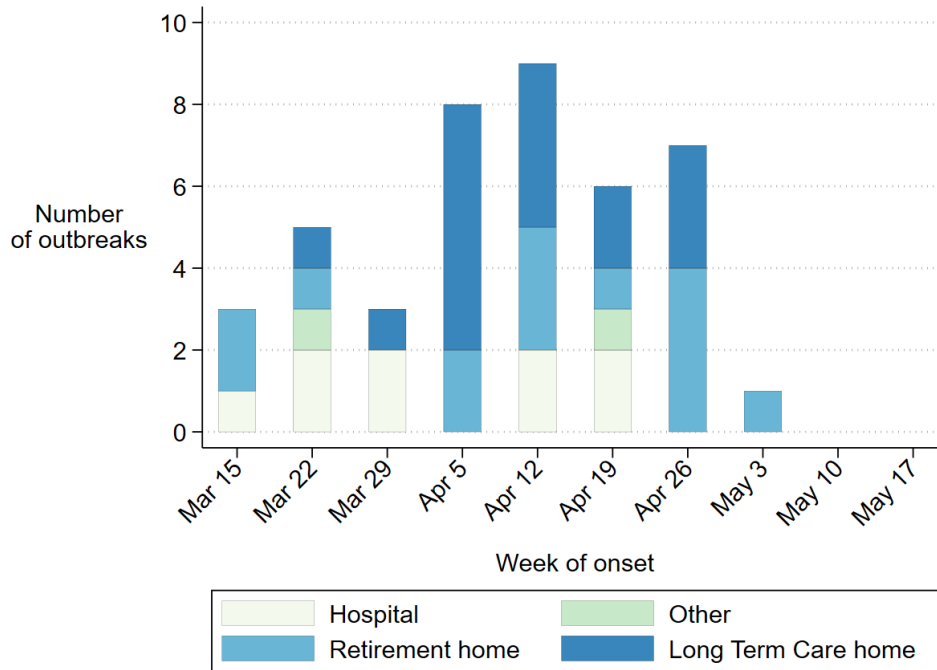
Notes:

1. Data are from the COD as of 2:00 p.m. on May 8, 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.



## Outbreaks

**Figure 4. Total number of COVID-19 outbreaks in Ottawa institutions<sup>3</sup>**



**Notes:**

1. Data from iPHIS as of 4:00 pm on May 8, 2020.
2. 19 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. Data are from [Ontario Data Catalogue](#) of confirmed positive cases of COVID19 in Ottawa downloaded 10:30am on May 8, representing data pulled from the Ottawa Public Health COVID-19 Ottawa Database (COD) as of 2:00 p.m. on May 8, 2020.
- 2) Outbreak 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 and the COD are dynamic disease reporting systems that allow for ongoing updates to data previously entered. Data extracted from these databases represent a snapshot at the time of extraction and can be different in previous or subsequent reports.

### **Please use the following citation when referencing this document:**

Ottawa Public Health. COVID-19 Epidemiology Update. May 9, 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 Figure 1

<b>Earliest of Onset, Test or Reported Date or Date of Death</b>	<b>Cumulative Number of Ottawa Residents with Confirmed COVID-19</b>	<b>Cumulative Number of Ottawa Residents who died from COVID-19 (Confirmed)</b>
2/10/2020	1	0
2/11/2020	1	0
2/12/2020	1	0
2/13/2020	1	0
2/14/2020	1	0
2/15/2020	1	0
2/16/2020	1	0
2/17/2020	1	0
2/18/2020	1	0
2/19/2020	1	0
2/20/2020	2	0
2/21/2020	2	0
2/22/2020	3	0
2/23/2020	4	0
2/24/2020	5	0
2/25/2020	5	0
2/26/2020	5	0
2/27/2020	5	0
2/28/2020	5	0
2/29/2020	5	0
3/01/2020	7	0
3/02/2020	9	0
3/03/2020	10	0
3/04/2020	11	0
3/05/2020	17	0
3/06/2020	22	0
3/07/2020	26	0
3/08/2020	35	0
3/09/2020	43	0



<b>Earliest of Onset, Test or Reported Date or Date of Death</b>	<b>Cumulative Number of Ottawa Residents with Confirmed COVID-19</b>	<b>Cumulative Number of Ottawa Residents who died from COVID-19 (Confirmed)</b>
3/10/2020	50	0
3/11/2020	59	0
3/12/2020	73	0
3/13/2020	95	1
3/14/2020	112	1
3/15/2020	139	4
3/16/2020	153	4
3/17/2020	174	5
3/18/2020	189	5
3/19/2020	214	6
3/20/2020	235	6
3/21/2020	255	8
3/22/2020	282	9
3/23/2020	303	10
3/24/2020	320	11
3/25/2020	344	12
3/26/2020	357	12
3/27/2020	374	12
3/28/2020	398	13
3/29/2020	414	15
3/30/2020	435	16
3/31/2020	450	16
4/01/2020	477	17
4/02/2020	493	18
4/03/2020	517	19
4/04/2020	532	20
4/05/2020	562	22
4/06/2020	579	23
4/07/2020	598	26
4/08/2020	619	29
4/09/2020	645	31



<b>Earliest of Onset, Test or Reported Date or Date of Death</b>	<b>Cumulative Number of Ottawa Residents with Confirmed COVID-19</b>	<b>Cumulative Number of Ottawa Residents who died from COVID-19 (Confirmed)</b>
4/10/2020	674	35
4/11/2020	708	44
4/12/2020	741	50
4/13/2020	755	54
4/14/2020	795	65
4/15/2020	823	67
4/16/2020	892	87
4/17/2020	931	100
4/18/2020	966	104
4/19/2020	983	106
4/20/2020	1039	115
4/21/2020	1069	119
4/22/2020	1110	125
4/23/2020	1156	128
4/24/2020	1190	131
4/25/2020	1301	143
4/26/2020	1366	148
4/27/2020	1429	150
4/28/2020	1462	151
4/29/2020	1490	152
4/30/2020	1516	153
5/01/2020	1541	154
5/02/2020	1557	155
5/03/2020	1575	156
5/04/2020	1590	157
5/05/2020	1619	157
5/06/2020	1635	157
5/07/2020	1643	157
5/08/2020	1644	157



**Data table for Figure 2 and Figure 3**

<b>Earliest of Onset, Test or Reported Date</b>	<b>Daily Total of Sporadic COVID-19 Cases</b>	<b>Daily Total of COVID-19 Cases Linked to Community Outbreaks</b>	<b>Daily Total of COVID-19 Cases Linked to Outbreaks in Health Care Institutions</b>	<b>Daily Total of Ottawa Residents with Confirmed COVID-19</b>
2/10/2020	1	0	0	1
2/11/2020	0	0	0	0
2/12/2020	0	0	0	0
2/13/2020	0	0	0	0
2/14/2020	0	0	0	0
2/15/2020	0	0	0	0
2/16/2020	0	0	0	0
2/17/2020	0	0	0	0
2/18/2020	0	0	0	0
2/19/2020	0	0	0	0
2/20/2020	1	0	0	1
2/21/2020	0	0	0	0
2/22/2020	1	0	0	1
2/23/2020	1	0	0	1
2/24/2020	1	0	0	1
2/25/2020	0	0	0	0
2/26/2020	0	0	0	0
2/27/2020	0	0	0	0
2/28/2020	0	0	0	0
2/29/2020	0	0	0	0
3/01/2020	2	0	0	2
3/02/2020	2	0	0	2
3/03/2020	1	0	0	1
3/04/2020	1	0	0	1
3/05/2020	5	1	0	6
3/06/2020	5	0	0	5
3/07/2020	4	0	0	4



<b>Earliest of Onset, Test or Reported Date</b>	<b>Daily Total of Sporadic COVID-19 Cases</b>	<b>Daily Total of COVID-19 Cases Linked to Community Outbreaks</b>	<b>Daily Total of COVID-19 Cases Linked to Outbreaks in Health Care Institutions</b>	<b>Daily Total of Ottawa Residents with Confirmed COVID-19</b>
3/08/2020	9	0	0	9
3/09/2020	8	0	0	8
3/10/2020	7	0	0	7
3/11/2020	9	0	0	9
3/12/2020	14	0	0	14
3/13/2020	20	0	2	22
3/14/2020	17	0	0	17
3/15/2020	27	0	0	27
3/16/2020	14	0	0	14
3/17/2020	21	0	0	21
3/18/2020	14	0	1	15
3/19/2020	25	0	0	25
3/20/2020	19	1	1	21
3/21/2020	19	0	1	20
3/22/2020	26	0	1	27
3/23/2020	20	1	0	21
3/24/2020	13	1	3	17
3/25/2020	22	0	2	24
3/26/2020	10	1	2	13
3/27/2020	13	2	2	17
3/28/2020	24	0	0	24
3/29/2020	11	2	3	16
3/30/2020	14	6	1	21
3/31/2020	12	1	2	15
4/01/2020	16	6	5	27
4/02/2020	7	5	4	16
4/03/2020	19	3	2	24
4/04/2020	6	5	4	15
4/05/2020	15	5	10	30
4/06/2020	7	2	8	17



<b>Earliest of Onset, Test or Reported Date</b>	<b>Daily Total of Sporadic COVID-19 Cases</b>	<b>Daily Total of COVID-19 Cases Linked to Community Outbreaks</b>	<b>Daily Total of COVID-19 Cases Linked to Outbreaks in Health Care Institutions</b>	<b>Daily Total of Ottawa Residents with Confirmed COVID-19</b>
4/07/2020	12	1	6	19
4/08/2020	8	2	11	21
4/09/2020	13	3	10	26
4/10/2020	10	1	18	29
4/11/2020	9	2	23	34
4/12/2020	12	1	20	33
4/13/2020	5	0	9	14
4/14/2020	9	0	31	40
4/15/2020	10	2	16	28
4/16/2020	16	0	53	69
4/17/2020	6	1	32	39
4/18/2020	8	0	27	35
4/19/2020	5	1	11	17
4/20/2020	16	0	40	56
4/21/2020	12	0	18	30
4/22/2020	12	0	29	41
4/23/2020	13	0	33	46
4/24/2020	4	0	30	34
4/25/2020	8	0	103	111
4/26/2020	8	0	57	65
4/27/2020	11	0	52	63
4/28/2020	8	0	25	33
4/29/2020	7	0	21	28
4/30/2020	12	0	14	26
5/01/2020	7	0	18	25
5/02/2020	6	0	10	16
5/03/2020	5	0	13	18
5/04/2020	3	0	12	15



Earliest of Onset, Test or Reported Date	Daily Total of Sporadic COVID-19 Cases	Daily Total of COVID-19 Cases Linked to Community Outbreaks	Daily Total of COVID-19 Cases Linked to Outbreaks in Health Care Institutions	Daily Total of Ottawa Residents with Confirmed COVID-19
5/05/2020	2	0	27	29
5/06/2020	4	0	12	16
5/07/2020	3	0	5	8
5/08/2020	1	0	0	1

**Data Table for Figure 4**

Week of symptom onset	Number of outbreaks in Ottawa hospitals	Number of outbreaks in other Ottawa institutions	Number of outbreaks in Ottawa retirement homes	Number of outbreaks in Ottawa long term care homes
Mar 15	1	0	2	0
Mar 22	2	1	1	1
Mar 29	2	0	0	1
Apr 05	0	0	2	6
Apr 12	2	0	3	4
Apr 19	2	1	1	2
Apr 26	0	0	4	3
May 03	0	0	1	0
May 10				

