



COVID-19 Epidemiology Update

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

Contents

Purpose	1
Summary	1
Cases Over Time.....	1
Case Characteristics.....	4
Outbreaks	6
Data Notes & Sources	7
Data Tables	8

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

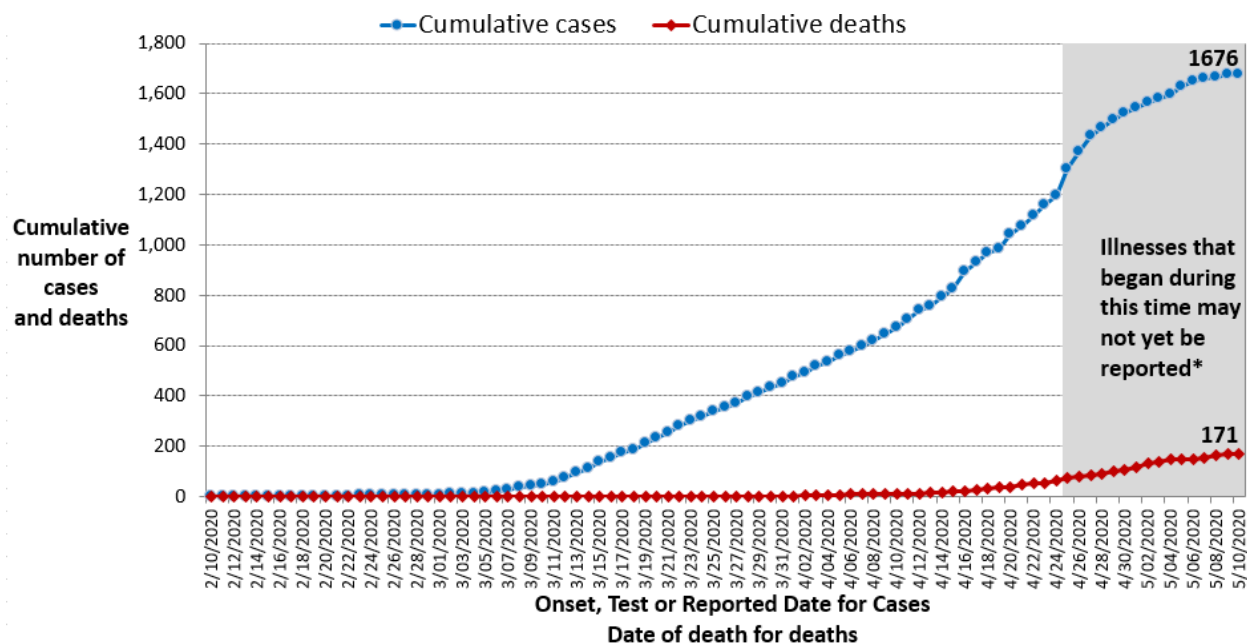
This daily report provides an epidemiologic summary of COVID-19 activity in Ottawa to date. The report includes the most current information available from the COVID-19 Ottawa Database (COD) as of 2:00 pm May 10, 2020 and the integrated Public Health Information System (iPHIS) as of 4:00 p.m. May 10, 2020.

Summary

- 1,676 laboratory-confirmed cases, including 171 deaths, have been reported in Ottawa.
- This includes 23 new cases and 10 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

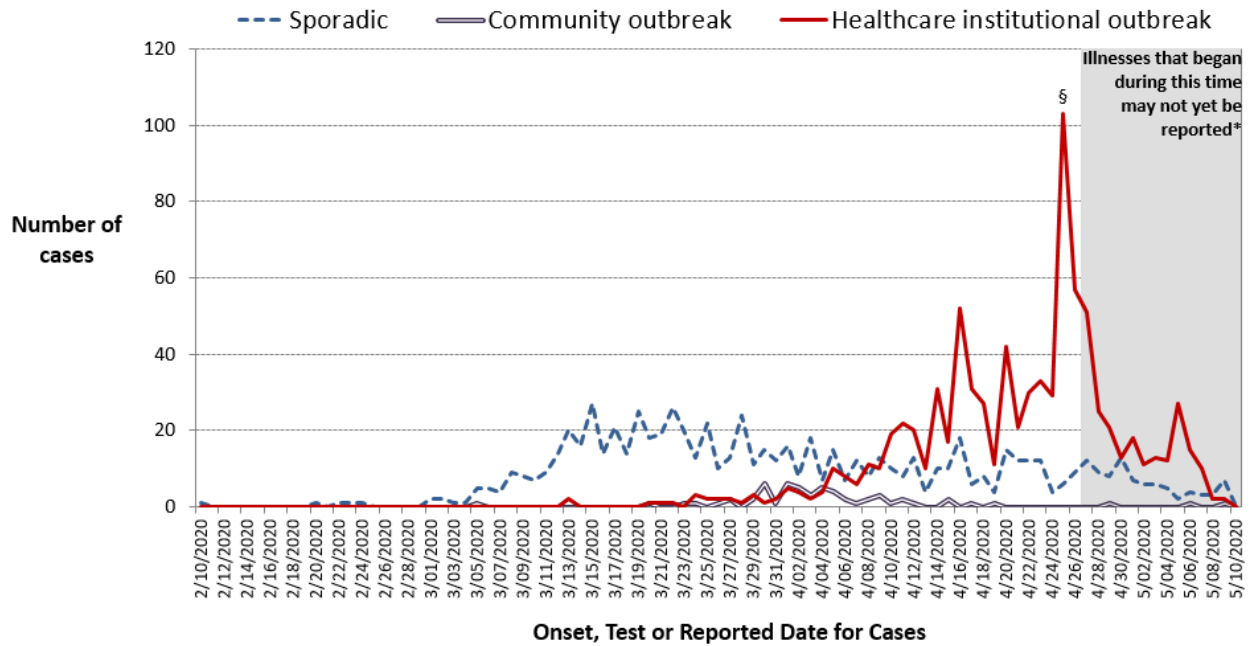


Notes:

1. Data are from the COD as of 2:00 p.m. on May 10, 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=1,676)



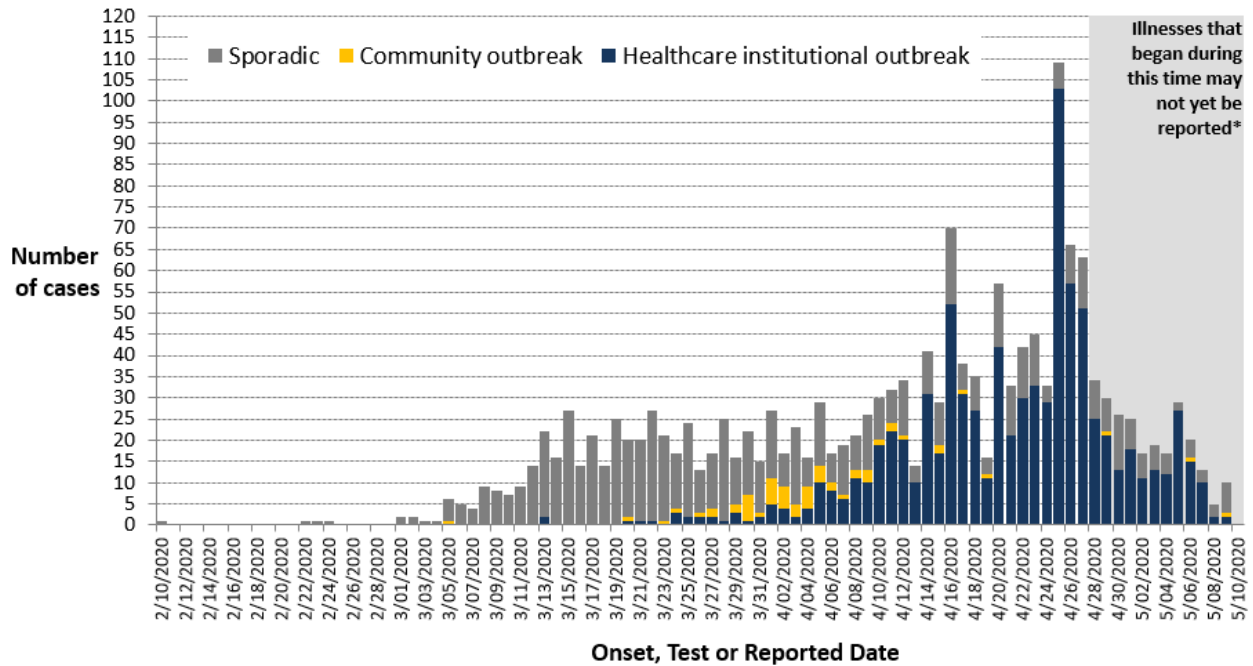
Notes:

1. Data are from the COD as of 2:00 p.m. on May 10, 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 sporadic 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. §Surveillance testing for COVID-19 began in long term care facilities on April 25, 2020.
8. 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.¹

¹ 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=1,676)



Notes:

1. Data are from the COD as of 2:00 p.m. on May 10, 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.²

² 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	1,676	-
Change from previous report	23	1% increase
Age, median (range)	57 years (4m-105y)	-
Age		
0-9 years	15	1%
10-19 years	39	2%
20 to 29 years	158	9%
30 to 39 years	206	12%
40 to 49 years	234	14%
50 to 59 years	249	15%
60 to 69 years	215	13%
70 to 79 years	152	9%
80 to 89 years	221	13%
90+ years	187	11%
Unknown	0	0%
Gender		
Female	993	59%
Male	682	41%
Unknown	1	<1%
Health care workers and first responders	437	26%

Note:

1. Data are from the COD as of 2:00 p.m. on May 10, 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
All cases	1,676	-
Ongoing	366	22%
Deaths	171	10%
Resolved ³	1139	68%

Notes:

1. Data are from the COD as of 2:00 p.m. on May 10, 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

Measure	Number	Percentage
Cumulative cases	1,676	
Cumulative deaths	171	10%
Change from previous report	10	6% increase
Age, median (range)	87 years (39-105)	
Age		
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	6	4%
60 to 69 years	10	6%
70 to 79 years	23	13%
80 to 89 years	65	38%
90+ years	66	38%
Unknown	0	0%
Gender		
Female	90	53%
Male	81	47%
Unknown	0	0%
Healthcare workers and first responders	1	1%

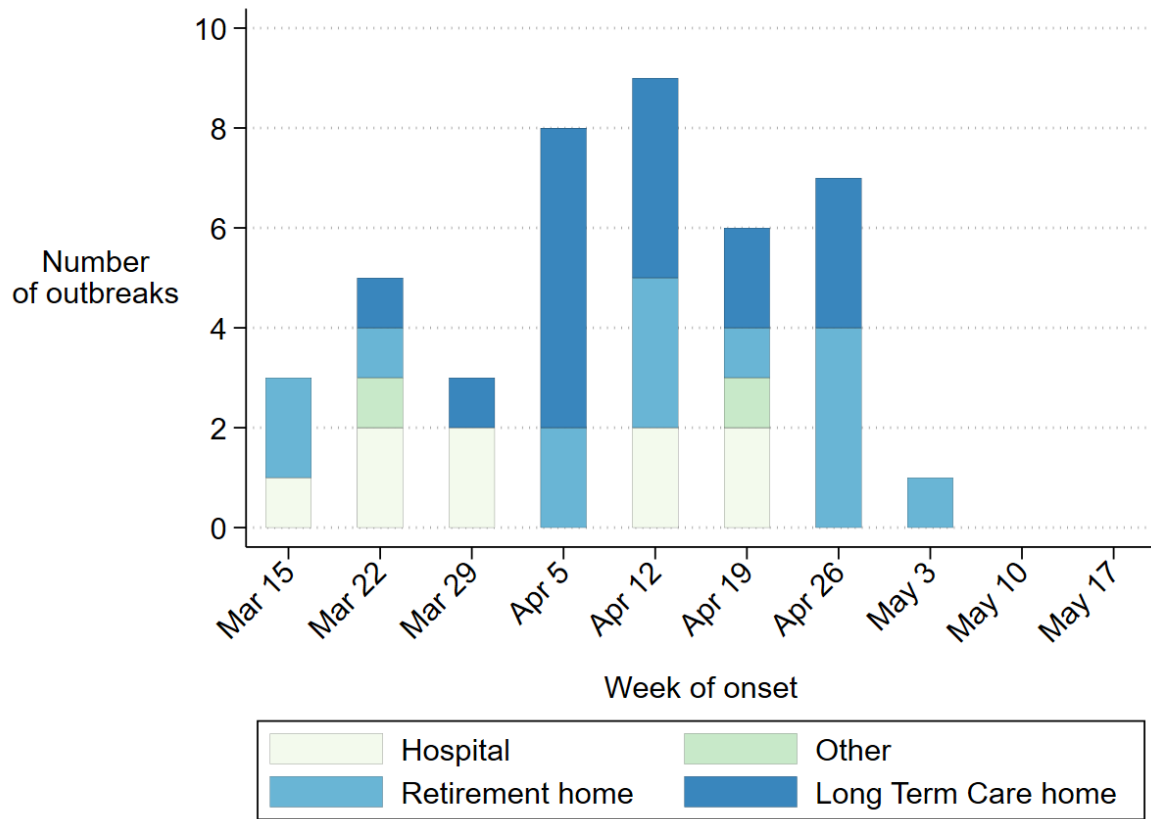
Notes:

1. Data are from the COD as of 2:00 p.m. on May 10, 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 institutions³



Notes:

1. Data from iPHIS as of 4:00 pm on May 10, 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 10, representing data pulled from the Ottawa Public Health COVID-19 Ottawa Database (COD) as of 2:00 p.m. on May 10, 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 11, 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

Earliest of Onset, Test or Reported Date or Date of Death	Cumulative Number of Ottawa Residents with Confirmed COVID-19	Cumulative Number of Ottawa Residents with Confirmed COVID-19 who died
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



Earliest of Onset, Test or Reported Date or Date of Death	Cumulative Number of Ottawa Residents with Confirmed COVID-19	Cumulative Number of Ottawa Residents with Confirmed COVID-19 who died
3/10/2020	50	0
3/11/2020	59	0
3/12/2020	73	0
3/13/2020	95	0
3/14/2020	111	0
3/15/2020	138	0
3/16/2020	152	0
3/17/2020	173	0
3/18/2020	187	0
3/19/2020	212	0
3/20/2020	232	0
3/21/2020	252	0
3/22/2020	279	0
3/23/2020	300	0
3/24/2020	317	1
3/25/2020	341	1
3/26/2020	354	1
3/27/2020	371	1
3/28/2020	396	2
3/29/2020	412	2
3/30/2020	434	3
3/31/2020	449	3
4/01/2020	476	3
4/02/2020	493	5
4/03/2020	516	5
4/04/2020	532	6
4/05/2020	561	8
4/06/2020	578	9
4/07/2020	597	9
4/08/2020	618	11
4/09/2020	644	11



Earliest of Onset, Test or Reported Date or Date of Death	Cumulative Number of Ottawa Residents with Confirmed COVID-19	Cumulative Number of Ottawa Residents with Confirmed COVID-19 who died
4/10/2020	674	11
4/11/2020	706	11
4/12/2020	740	13
4/13/2020	754	16
4/14/2020	795	18
4/15/2020	824	23
4/16/2020	894	23
4/17/2020	932	25
4/18/2020	967	30
4/19/2020	983	35
4/20/2020	1040	39
4/21/2020	1073	46
4/22/2020	1115	53
4/23/2020	1160	56
4/24/2020	1193	64
4/25/2020	1302	72
4/26/2020	1368	81
4/27/2020	1431	87
4/28/2020	1465	93
4/29/2020	1495	101
4/30/2020	1521	108
5/01/2020	1546	119
5/02/2020	1563	131
5/03/2020	1582	136
5/04/2020	1599	146
5/05/2020	1628	147
5/06/2020	1648	150
5/07/2020	1661	156
5/08/2020	1666	164



Earliest of Onset, Test or Reported Date or Date of Death	Cumulative Number of Ottawa Residents with Confirmed COVID-19	Cumulative Number of Ottawa Residents with Confirmed COVID-19 who died
5/09/2020	1676	168
5/10/2020	1676	171

Data table for Figure 2 and Figure 3

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
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



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
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
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	16	0	0	16
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	0	14
3/19/2020	25	0	0	25
3/20/2020	18	1	1	20
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	1	25
3/29/2020	11	2	3	16
3/30/2020	15	6	1	22
3/31/2020	12	1	2	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
4/01/2020	16	6	5	27
4/02/2020	8	5	4	17
4/03/2020	18	3	2	23
4/04/2020	7	5	4	16
4/05/2020	15	4	10	29
4/06/2020	7	2	8	17
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	19	30
4/11/2020	8	2	22	32
4/12/2020	13	1	20	34
4/13/2020	4	0	10	14
4/14/2020	10	0	31	41
4/15/2020	10	2	17	29
4/16/2020	18	0	52	70
4/17/2020	6	1	31	38
4/18/2020	8	0	27	35
4/19/2020	4	1	11	16
4/20/2020	15	0	42	57
4/21/2020	12	0	21	33
4/22/2020	12	0	30	42
4/23/2020	12	0	33	45
4/24/2020	4	0	29	33
4/25/2020	6	0	103	109
4/26/2020	9	0	57	66
4/27/2020	12	0	51	63
4/28/2020	9	0	25	34
4/29/2020	8	1	21	30



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
4/30/2020	13	0	13	26
5/01/2020	7	0	18	25
5/02/2020	6	0	11	17
5/03/2020	6	0	13	19
5/04/2020	5	0	12	17
5/05/2020	2	0	27	29
5/06/2020	4	1	15	20
5/07/2020	3	0	10	13
5/08/2020	3	0	2	5
5/09/2020	7	1	2	10
5/10/2020	0	0	0	0

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				

