



COVID-19 Epidemiology Update

OTTAWA PUBLIC HEALTH. Report compiled on April 28, 2020, 11:00 am

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Purpose

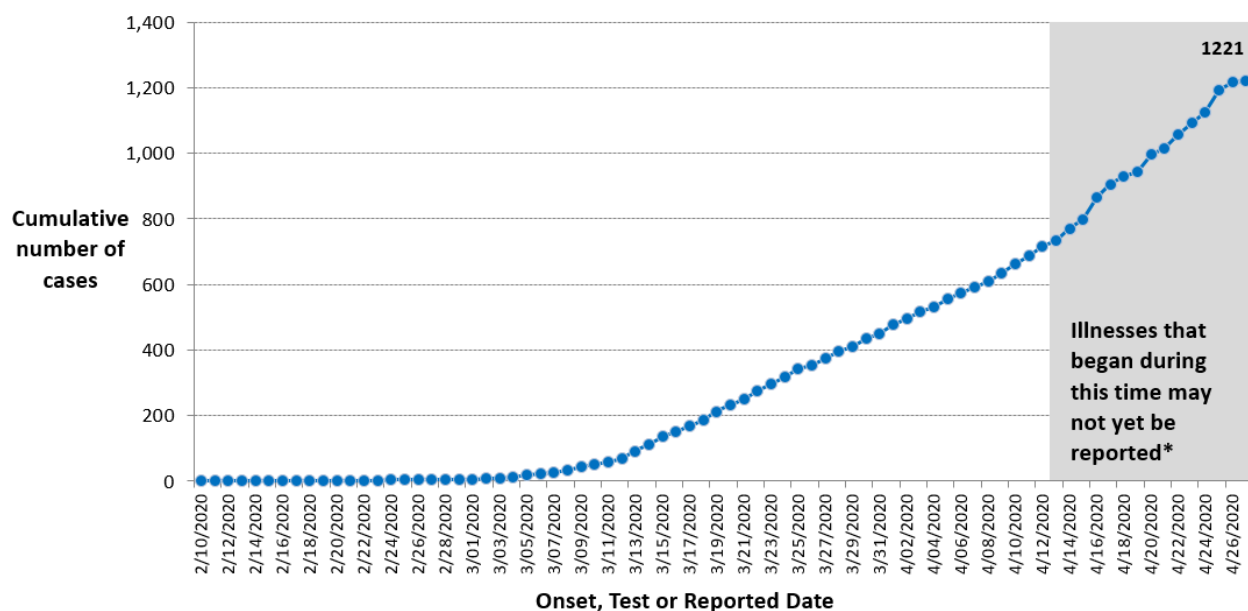
This daily report provides an epidemiologic summary of COVID-19 activity in Ottawa to date. The report includes the most current information available from the integrated Public Health Information System (iPHIS) and a chart review of COVID-19 cases as of 4:00 p.m. April 27, 2020.

Summary

- 1,221 laboratory-confirmed cases, including 71 deaths, have been reported in Ottawa.
- This includes 67 new cases and 12 new deaths since the previous report.
- 10% of cases have been hospitalized (cumulative), including 3% in intensive care (cumulative).
- The median age of cases is 55 years (range, 4 months to 105 years).
- There are 23 ongoing outbreaks in [institutions](#).
- The most common reported exposure settings for cases include: 63% with close contact with a case only, 15% with no travel and no known contact with a case, 10% with travel only, and 7% 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

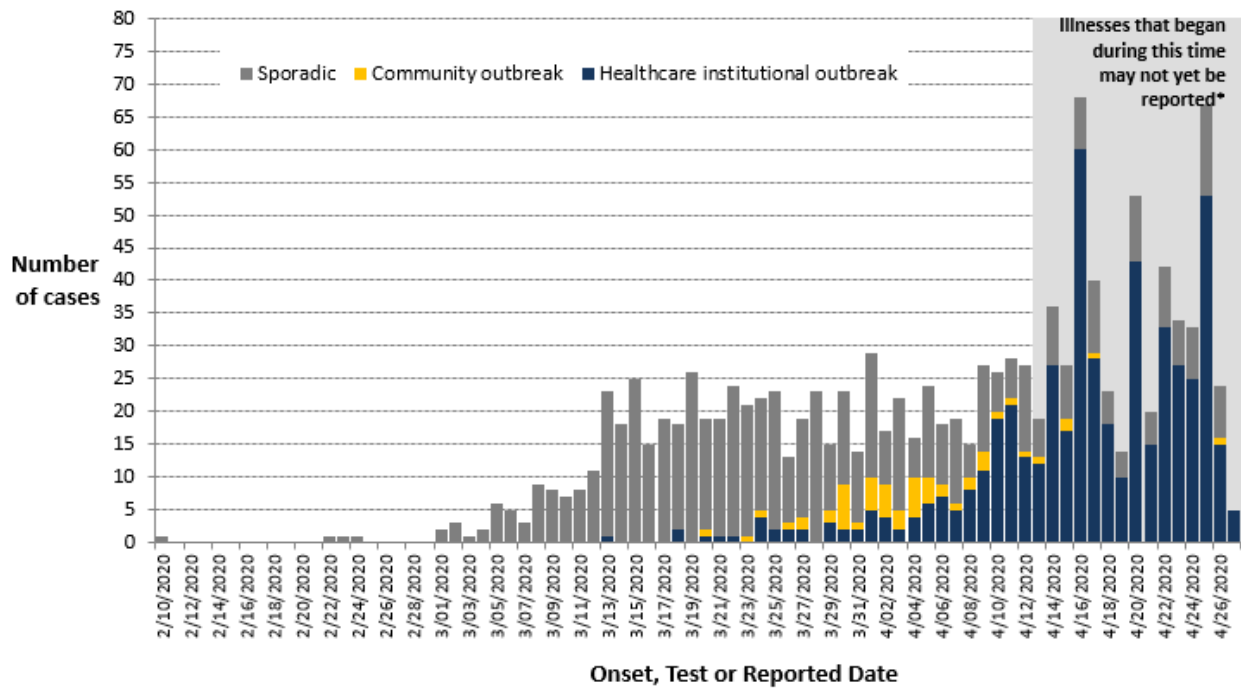


Notes:

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 27, 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=1,221)



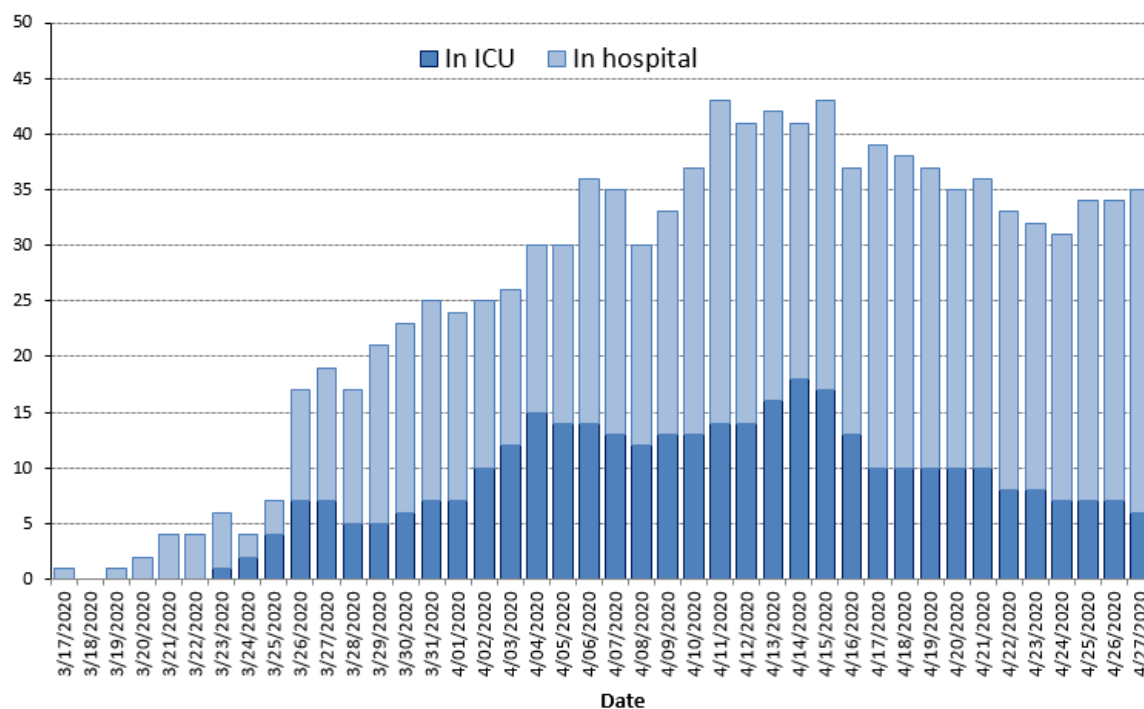
Notes:

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 27, 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 27, 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	1,221	
Cumulative hospitalized	122	10%
Currently in hospital	35	3%
Cumulative intensive care	36	3%
Currently in intensive care	6	<1%
Deaths	71	6%
Resolved ⁴	529	43%

Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 27, 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	1,221	-
Change from previous report	67	6% increase
Age, median (range)	55 years (4m-105y)	-
Age		
<5 years	8	1%
5 to 19 years	32	3%
20 to 44 years	370	30%
45 to 64 years	380	31%
65 years and older	431	35%
Unknown	0	0%
Gender		
Female	692	57%
Male	529	43%
Unknown	0	0%
Health care workers and first responders	237	19%

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 27, 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=1,221)

Measure	Cumulative Hospitalized		Cumulative Intensive Care	
	Number	Percentage	Number	Percentage
Case count	122	10%	36	3%
Age, median (range)	65 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	14	11%	5	14%
45 to 64 years	46	38%	14	39%
65 years and older	62	51%	17	47%

Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 27, 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	125	10%
Travel and contact with a case	51	4%
Contact with a case only	773	63%
No travel and no known contact with a known case	181	15%
Undetermined/pending	91	7%
TOTAL	1,221	

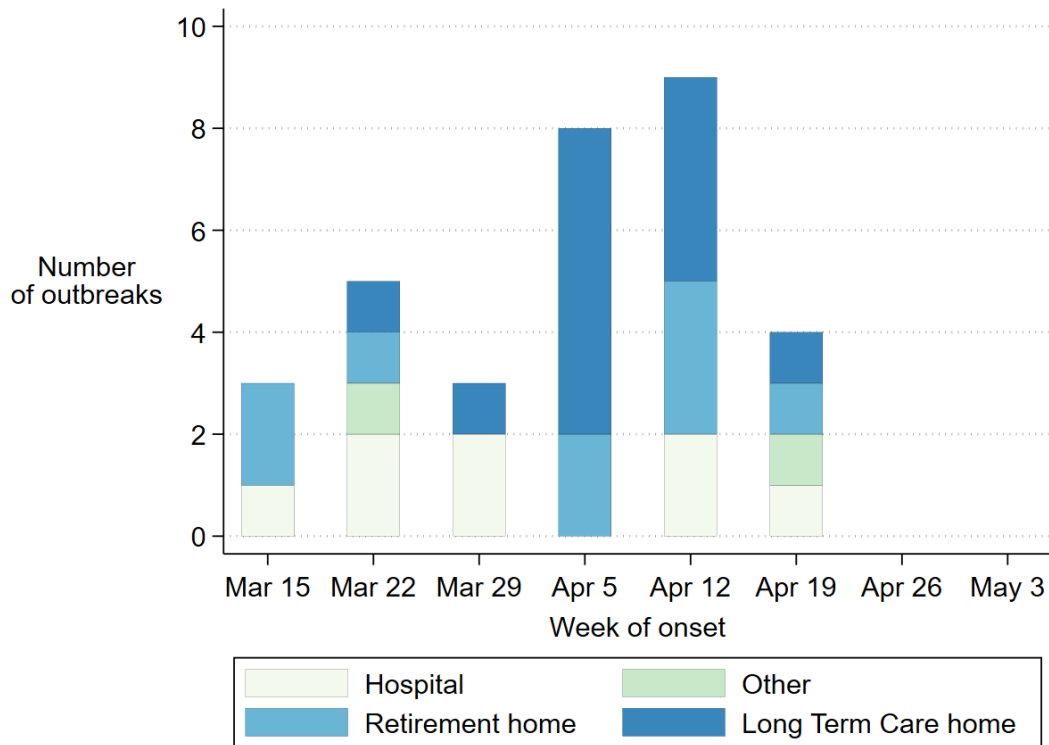
Notes:

1. Data as of 4:00 p.m. on April 27, 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



Notes:

1. Data as of 4:00 pm on April 27, 2020.
2. Nine outbreaks are closed and 23 are active. Investigation and data entry are ongoing.
3. One retirement home outbreak (Stirling Park) reported in the April 24-25 reports has been removed because it did not have a lab-confirmed case.
4. 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 28, 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

Earliest of Onset, Test or Reported Date	Cumulative Number of Ottawa Residents with Confirmed COVID-19
2/10/2020	1
2/11/2020	1
2/12/2020	1
2/13/2020	1
2/14/2020	1
2/15/2020	1
2/16/2020	1
2/17/2020	1
2/18/2020	1
2/19/2020	1
2/20/2020	1
2/21/2020	1
2/22/2020	2
2/23/2020	3
2/24/2020	4
2/25/2020	4
2/26/2020	4
2/27/2020	4
2/28/2020	4
2/29/2020	4
3/01/2020	6
3/02/2020	9
3/03/2020	10
3/04/2020	12
3/05/2020	18
3/06/2020	23
3/07/2020	26
3/08/2020	35
3/09/2020	43
3/10/2020	50



Earliest of Onset, Test or Reported Date	Cumulative Number of Ottawa Residents with Confirmed COVID-19
3/11/2020	58
3/12/2020	69
3/13/2020	92
3/14/2020	110
3/15/2020	135
3/16/2020	150
3/17/2020	169
3/18/2020	187
3/19/2020	213
3/20/2020	232
3/21/2020	251
3/22/2020	275
3/23/2020	296
3/24/2020	318
3/25/2020	341
3/26/2020	354
3/27/2020	373
3/28/2020	396
3/29/2020	411
3/30/2020	434
3/31/2020	448
4/01/2020	477
4/02/2020	494
4/03/2020	516
4/04/2020	532
4/05/2020	556
4/06/2020	574
4/07/2020	593
4/08/2020	608
4/09/2020	635
4/10/2020	661
4/11/2020	689



Earliest of Onset, Test or Reported Date	Cumulative Number of Ottawa Residents with Confirmed COVID-19
4/12/2020	716
4/13/2020	735
4/14/2020	771
4/15/2020	798
4/16/2020	866
4/17/2020	906
4/18/2020	929
4/19/2020	943
4/20/2020	996
4/21/2020	1016
4/22/2020	1058
4/23/2020	1092
4/24/2020	1125
4/25/2020	1192
4/26/2020	1216
4/27/2020	1221



Data table for Figure 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
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	0	0	0	0
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	3	0	0	3
3/03/2020	1	0	0	1
3/04/2020	2	0	0	2
3/05/2020	6	0	0	6
3/06/2020	5	0	0	5
3/07/2020	3	0	0	3
3/08/2020	9	0	0	9
3/09/2020	8	0	0	8



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
3/10/2020	7	0	0	7
3/11/2020	8	0	0	8
3/12/2020	11	0	0	11
3/13/2020	22	0	1	23
3/14/2020	18	0	0	18
3/15/2020	25	0	0	25
3/16/2020	15	0	0	15
3/17/2020	19	0	0	19
3/18/2020	16	0	2	18
3/19/2020	26	0	0	26
3/20/2020	17	1	1	19
3/21/2020	18	0	1	19
3/22/2020	23	0	1	24
3/23/2020	20	1	0	21
3/24/2020	17	1	4	22
3/25/2020	21	0	2	23
3/26/2020	10	1	2	13
3/27/2020	15	2	2	19
3/28/2020	23	0	0	23
3/29/2020	10	2	3	15
3/30/2020	14	7	2	23
3/31/2020	11	1	2	14
4/01/2020	19	5	5	29
4/02/2020	8	5	4	17
4/03/2020	17	3	2	22
4/04/2020	6	6	4	16
4/05/2020	14	4	6	24
4/06/2020	9	2	7	18
4/07/2020	13	1	5	19
4/08/2020	5	2	8	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
4/09/2020	13	3	11	27
4/10/2020	6	1	19	26
4/11/2020	6	1	21	28
4/12/2020	13	1	13	27
4/13/2020	6	1	12	19
4/14/2020	9	0	27	36
4/15/2020	8	2	17	27
4/16/2020	8	0	60	68
4/17/2020	11	1	28	40
4/18/2020	5	0	18	23
4/19/2020	4	0	10	14
4/20/2020	10	0	43	53
4/21/2020	5	0	15	20
4/22/2020	9	0	33	42
4/23/2020	7	0	27	34
4/24/2020	8	0	25	33
4/25/2020	14	0	53	67
4/26/2020	8	1	15	24
4/27/2020	0	0	5	5



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
4/23/2020	24	8	32
4/24/2020	24	7	31
4/25/2020	27	7	34
4/26/2020	27	7	34
4/27/2020	29	6	35



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 long-term care/ nursing homes in Ottawa
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	1	1	1	1
Apr 26	0	0	0	0
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				

