

Ottawa Public Health Respiratory and Enteric Surveillance Report April 28 – May 4, 2019 (Week 18)

This report provides a overview of the current Influenza season in the City of Ottawa, Ontario. For information on the current influenza season across Ontario see the [Ontario Respiratory Pathogen Bulletin](#), and for Canada see the [FluWatch report](#). Regional syndromic surveillance data on Influenza like Illness (ILI), including hospital admissions and emergency department visits, can be accessed through [ILI mapper](#). Information on past Influenza seasons in the City of Ottawa is available at www.OttawaPublicHealth.ca/FluReport.

Table 1a: Ottawa Respiratory Activity Highlights





| Data Source | Activity Level Compared To Previous Week | Details |
|--|--|--|
| Lab-confirmed cases of influenza¹ (2018-2019 season to date) | Similar to last week.  | 659 cases have been reported since Sept 1; 645 (97.9%) were influenza A, 11 (1.7%) were influenza B, and 3 (0.5%) were influenza A & B. 14 of the influenza A cases were subtyped as H3, 4 as H3N2 and 21 as H1N1. The median age of cases is 62 years. |
| Influenza percent positivity² (week 18) | Lower than last week.  | The percent positivity of all respiratory samples tested for influenza is 9.6%. |
| Influenza related mortality¹ (2018-2019 season to date) | Similar to last week.  | OPH is aware of 5 influenza-related deaths this season, all among persons aged 65 years and older. |
| Respiratory outbreaks in institutions and public hospitals¹ (2018-2019 season to date) | Lower than last week.  | 0 new influenza A outbreaks and 0 new non-influenza respiratory outbreaks reported this week, with a total of 0 ongoing influenza outbreaks and 0 ongoing non-influenza respiratory outbreaks. Since September 1, 2018, 36 influenza A outbreaks, 2 influenza B outbreaks, and 61 non-influenza respiratory outbreaks have been reported in Ottawa. |

Table 1b: Ottawa Gastroenteritis Activity Highlights¹



| Data Source | Activity Level Compared To Previous Week | Details |
|---|--|--|
| Gastroenteritis outbreaks in institutions and public hospitals (2018-2019 season to date) | Lower than last week.  | 2 new enteric outbreaks reported this week, with a total of 4 ongoing enteric outbreaks. 61 enteric outbreaks reported in Ottawa since September 1, 2018. |

Table 1c: Ottawa Clostridium Difficile Infection (CDI) Outbreaks in Public Hospital Highlights¹

| Data Source | Activity Level Compared To Previous Week | Details |
|--|--|---|
| Clostridium difficile infection (CDI) outbreaks in public hospitals (2018-2019 season to date) | Similar to last week.  | 0 new CDI outbreaks reported this week, for a total of 0 ongoing CDI outbreaks. 2 CDI outbreak reported in Ottawa since September 1, 2018. |

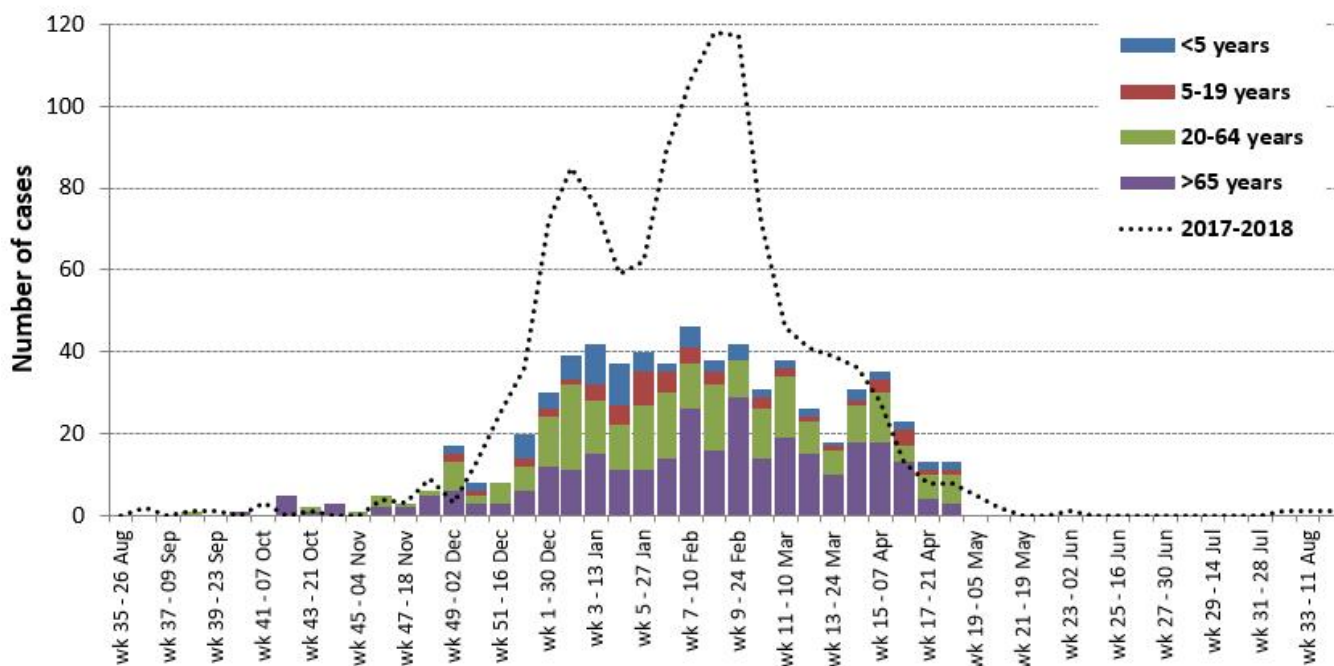
Ottawa data presented in this issue of the report are for Week 18 of the current 2018-2019 influenza season, and data extraction occurred on 7 May 2019 at noon, unless otherwise stated. Furthermore, this report is based on data and information available at the time of report preparation, and may vary in previous or subsequent reports.

1. Lab-confirmed Influenza cases by age category¹

Table 2: Summary of lab-confirmed cases of influenza, diagnosed in Ottawa, 2018-2019 season to date, by age category

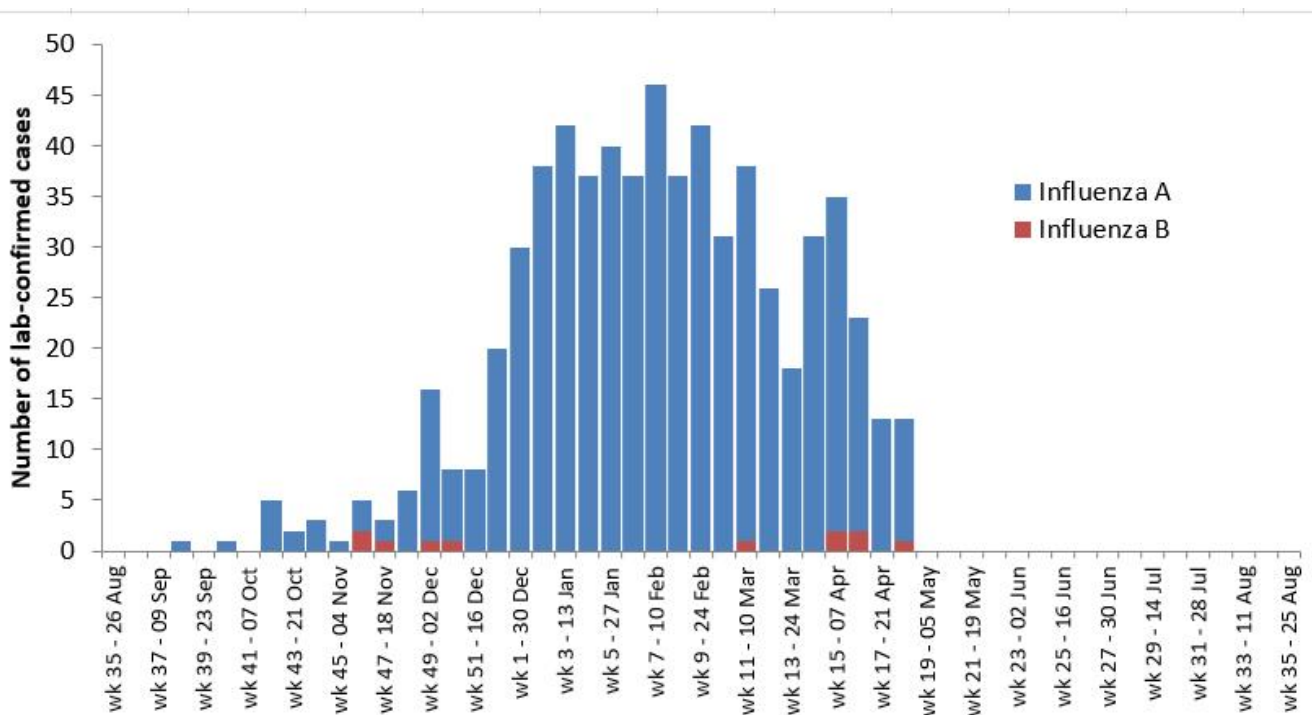
| Age (years) | 2018-2019 Season to date | Proportion of total lab-confirmed cases (%) | Incidence (per 100,000) |
|------------------------------|--------------------------|---|-------------------------|
| Less than 1 | 25 | 3.8% | 221.6 |
| 1 to 4 | 52 | 7.9% | 120.6 |
| 5 to 19 | 54 | 8.2% | 33.2 |
| 20 to 64 | 232 | 35.2% | 36.2 |
| 65+ | 296 | 44.9% | 187.9 |
| Total influenza cases | 659 | | 64.9 |

Figure 1: Number of laboratory-confirmed influenza cases reported by week of symptom onset and age group, diagnosed in Ottawa, 2018-2019 season to date and last season



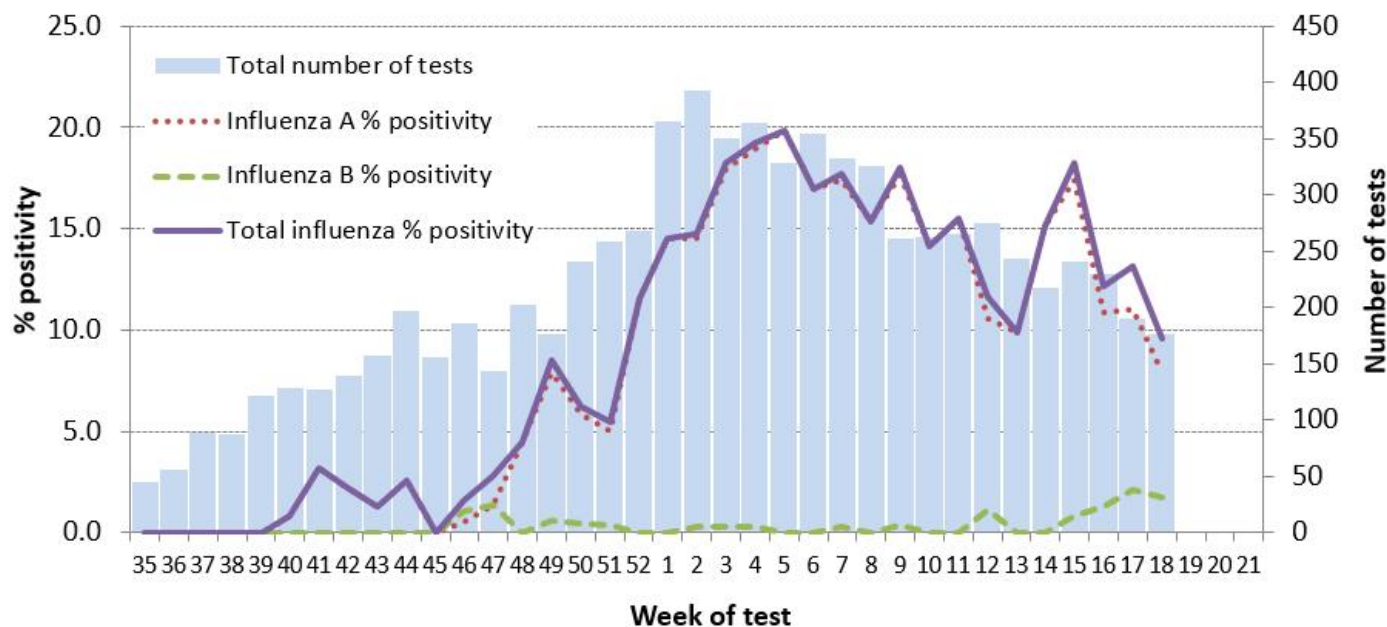
2. Lab-confirmed influenza cases by influenza type¹

Figure 2: Number of laboratory-confirmed influenza cases reported by week of symptom onset and influenza type, diagnosed in Ottawa, 2018-2019 season to date.



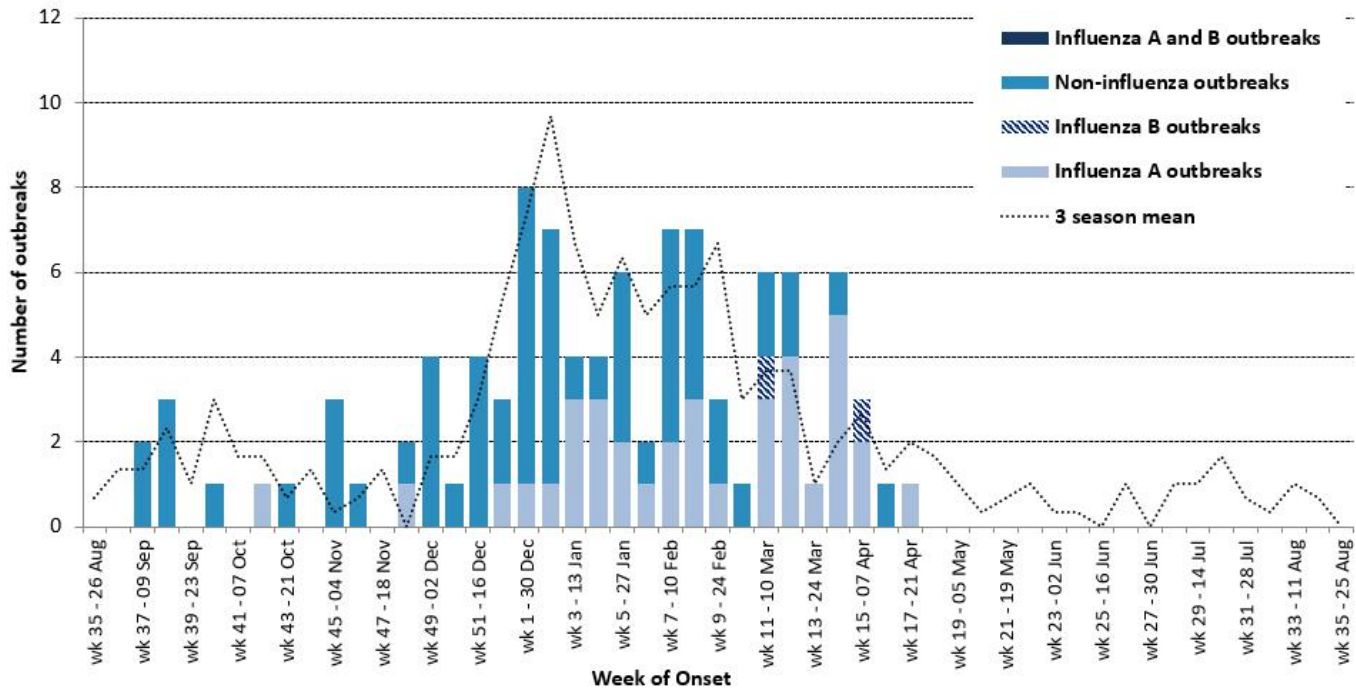
3. Percent of respiratory specimens that tested positive for Influenza²

Figure 3: Percent and number of nasopharyngeal specimens that tested positive for influenza in Ottawa, 2018-2019 season to week 18, by influenza type



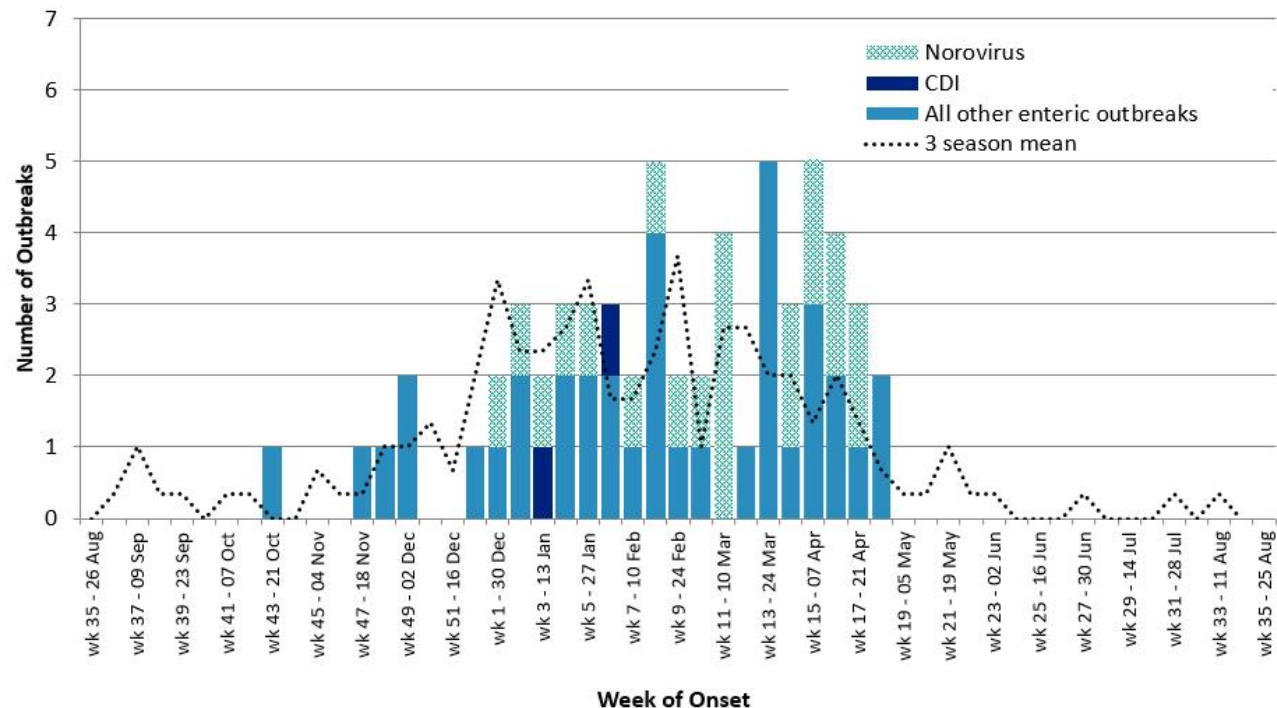
4. Respiratory outbreaks in institutions and public hospitals¹

Figure 4: Respiratory outbreaks in institutions (i.e., long-term care homes, retirement homes) and public hospitals, reported in Ottawa, 2018-2019 season to date, and previous three-season average



5. Gastroenteritis outbreaks in institutions and public hospitals¹

Figure 5: Gastroenteritis outbreaks in institutions (i.e., long-term care homes, retirement homes) and public hospitals, reported in Ottawa, 2018-2019 season to date, and previous three-season average



Data sources and notes:

1. Data reported to Ottawa Public Health, as recorded in integrated Public Health Information System (iPHIS), Ontario Ministry of Health and Long-Term Care (MOHLTC). Season to date data include data reported between September 1, 2018 (Week 35, 2018) and the current reporting week.

Note: *Health Protection and Promotion Act*, R.S.O. 1990 (HPPA) and the Ontario Public Health Standards: Requirements for Programs, Services, and Accountability does not require deaths among lab-confirmed cases of seasonal influenza to be reported to the local board of health. Therefore the number of deaths among lab-confirmed cases of influenza cases reported in this report only represent deaths Ottawa Public health has been made aware of at the time of report preparation. Furthermore, [lab testing](#) for influenza is only available to hospitalized patients and up to 4 patients per institutional respiratory infection outbreak.

2. Percent-positivity among viral respiratory specimens tested by Eastern Ontario Regional Laboratory Association (current reporting week) and Public Health Ontario Laboratories (previous reporting week).

Note: Additional information on respiratory viral pathogen detections among select laboratories in Canada can be accessed using [Centre for Immunization and Respiratory Infectious Diseases \(CIRID\)](#), Public Health Agency of Canada data sources

Data tables

Table for Figure 1: Number of reported laboratory-confirmed influenza cases by symptom onset week and age category, diagnosed in Ottawa, 2018-2019 season to date and last season

| Week | <5 years | 5-19 years | 20-64 years | >65 years | 2017-2018 |
|------|----------|------------|-------------|-----------|-----------|
| 35 | 0 | 0 | 0 | 0 | 0 |
| 36 | 0 | 0 | 0 | 0 | 2 |
| 37 | 0 | 0 | 0 | 0 | 0 |
| 38 | 0 | 0 | 1 | 0 | 1 |
| 39 | 0 | 0 | 0 | 0 | 1 |
| 40 | 0 | 0 | 0 | 1 | 0 |
| 41 | 0 | 0 | 0 | 0 | 3 |
| 42 | 0 | 0 | 0 | 5 | 0 |
| 43 | 0 | 0 | 1 | 1 | 1 |
| 44 | 0 | 0 | 0 | 3 | 0 |
| 45 | 0 | 0 | 1 | 0 | 0 |
| 46 | 0 | 0 | 3 | 2 | 4 |
| 47 | 0 | 0 | 1 | 2 | 3 |
| 48 | 0 | 0 | 1 | 5 | 9 |
| 49 | 2 | 2 | 7 | 6 | 3 |
| 50 | 2 | 1 | 2 | 3 | 13 |
| 51 | 0 | 0 | 5 | 3 | 25 |
| 52 | 6 | 2 | 6 | 6 | 36 |
| 1 | 4 | 2 | 12 | 12 | 72 |
| 2 | 6 | 1 | 21 | 11 | 85 |
| 3 | 10 | 4 | 13 | 15 | 76 |
| 4 | 10 | 5 | 11 | 11 | 59 |
| 5 | 5 | 8 | 16 | 11 | 62 |
| 6 | 2 | 5 | 16 | 14 | 89 |
| 7 | 5 | 4 | 11 | 26 | 106 |
| 8 | 3 | 3 | 16 | 16 | 118 |
| 9 | 4 | 0 | 9 | 29 | 117 |

| Week | <5 years | 5-19 years | 20-64 years | >65 years | 2017-2018 |
|-------------|--------------------|-------------------|--------------------|---------------------|------------------|
| 10 | 2 | 3 | 12 | 14 | 72 |
| 11 | 2 | 2 | 15 | 19 | 46 |
| 12 | 2 | 1 | 8 | 15 | 41 |
| 13 | 1 | 1 | 6 | 10 | 39 |
| 14 | 3 | 1 | 9 | 18 | 36 |
| 15 | 2 | 3 | 12 | 18 | 28 |
| 16 | 2 | 4 | 4 | 13 | 13 |
| 17 | 2 | 1 | 6 | 4 | 8 |
| 18 | 2 | 1 | 7 | 3 | 8 |
| 19 | | | | | 5 |
| 20 | | | | | 2 |
| 21 | | | | | 0 |
| 22 | | | | | 0 |
| 23 | | | | | 1 |
| 24 | | | | | 0 |
| 25 | | | | | 0 |
| 26 | | | | | 0 |
| 27 | | | | | 0 |
| 28 | | | | | 0 |
| 29 | | | | | 0 |
| 30 | | | | | 0 |
| 31 | | | | | 0 |
| 32 | | | | | 1 |
| 33 | | | | | 1 |
| 34 | | | | | 1 |

Table for Figure 2: Number of laboratory-confirmed influenza cases reported by week of symptom onset and influenza type, diagnosed in Ottawa, 2018-2019 season to date.

| Week | Influenza A | Influenza B |
|-------------|--------------------|--------------------|
| 35 | 0 | 0 |
| 36 | 0 | 0 |
| 37 | 0 | 0 |
| 38 | 1 | 0 |
| 39 | 0 | 0 |
| 40 | 1 | 0 |
| 41 | 0 | 0 |
| 42 | 5 | 0 |
| 43 | 2 | 0 |
| 44 | 3 | 0 |
| 45 | 1 | 0 |
| 46 | 3 | 2 |
| 47 | 2 | 1 |
| 48 | 6 | 0 |
| 49 | 15 | 1 |
| 50 | 7 | 1 |
| 51 | 8 | 0 |
| 52 | 20 | 0 |
| 1 | 30 | 0 |
| 2 | 38 | 0 |
| 3 | 42 | 0 |
| 4 | 37 | 0 |
| 5 | 40 | 0 |
| 6 | 37 | 0 |
| 7 | 46 | 0 |
| 8 | 37 | 0 |
| 9 | 42 | 0 |
| 10 | 31 | 0 |
| 11 | 37 | 1 |

| Week | Influenza A | Influenza B |
|-------------|--------------------|--------------------|
| 12 | 26 | 0 |
| 13 | 18 | 0 |
| 14 | 31 | 0 |
| 15 | 33 | 2 |
| 16 | 21 | 2 |
| 17 | 13 | 0 |
| 18 | 12 | 1 |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |

Table for Figure 3: Percent and number of naso-pharyngeal specimens submitted for laboratory testing that tested positive for influenza in Ottawa, 2018-2019 season to week 18, by influenza type.

| Week | Total number of tests | Influenza A % positivity | Influenza B % positivity | Total Influenza % positivity |
|------|-----------------------|-----------------------------|-----------------------------|------------------------------------|
| 35 | 45 | 0.0 | 0.0 | 0.0 |
| 36 | 56 | 0.0 | 0.0 | 0.0 |
| 37 | 89 | 0.0 | 0.0 | 0.0 |
| 38 | 87 | 0.0 | 0.0 | 0.0 |
| 39 | 122 | 0.0 | 0.0 | 0.0 |
| 40 | 128 | 0.8 | 0.0 | 0.8 |
| 41 | 127 | 3.1 | 0.0 | 3.1 |
| 42 | 139 | 2.2 | 0.0 | 2.2 |
| 43 | 157 | 1.3 | 0.0 | 1.3 |
| 44 | 197 | 2.5 | 0.0 | 2.5 |
| 45 | 156 | 0.0 | 0.0 | 0.0 |
| 46 | 186 | 0.5 | 1.1 | 1.6 |
| 47 | 144 | 1.4 | 1.4 | 2.8 |
| 48 | 202 | 4.5 | 0.0 | 4.5 |
| 49 | 177 | 7.9 | 0.6 | 8.5 |
| 50 | 241 | 5.8 | 0.4 | 6.2 |
| 51 | 258 | 5.0 | 0.4 | 5.4 |
| 52 | 268 | 11.6 | 0.0 | 11.6 |
| 1 | 365 | 14.5 | 0.0 | 14.5 |
| 2 | 393 | 14.5 | 0.3 | 14.8 |
| 3 | 351 | 17.9 | 0.3 | 18.2 |
| 4 | 364 | 19.0 | 0.3 | 19.2 |
| 5 | 328 | 19.8 | 0.0 | 19.8 |
| 6 | 354 | 16.9 | 0.0 | 16.9 |
| 7 | 333 | 17.4 | 0.3 | 17.7 |
| 8 | 326 | 15.3 | 0.0 | 15.3 |
| 9 | 261 | 17.6 | 0.4 | 18.0 |
| 10 | 262 | 14.1 | 0.0 | 14.1 |
| 11 | 265 | 15.5 | 0.0 | 15.5 |
| 12 | 275 | 10.5 | 1.1 | 11.6 |

| Week | Total number of tests | Influenza A % positivity | Influenza B % positivity | Total Influenza % positivity |
|-------------|------------------------------|-------------------------------------|-------------------------------------|---|
| 13 | 243 | 9.9 | 0.0 | 9.9 |
| 14 | 218 | 15.1 | 0.0 | 15.1 |
| 15 | 241 | 17.4 | 0.8 | 18.3 |
| 16 | 230 | 10.9 | 1.3 | 12.2 |
| 17 | 190 | 11.1 | 2.1 | 13.2 |
| 18 | 177 | 7.9 | 1.7 | 9.6 |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| 31 | | | | |
| 32 | | | | |
| 33 | | | | |
| 34 | | | | |

Table for Figure 4: Respiratory outbreaks in institutions (e.g., long-term care homes, retirement homes) and public hospitals, reported in Ottawa, 2018-2019 season to date, and previous three-season average

| Week | Non-influenza outbreaks | Influenza A outbreaks | Influenza B outbreaks | Influenza A & B outbreaks | 3 season mean |
|------|-------------------------|-----------------------|-----------------------|---------------------------|---------------|
| 35 | 0 | 0 | 0 | 0 | 0.7 |
| 36 | 0 | 0 | 0 | 0 | 1.3 |
| 37 | 2 | 0 | 0 | 0 | 1.3 |
| 38 | 3 | 0 | 0 | 0 | 2.3 |
| 39 | 0 | 0 | 0 | 0 | 1.0 |
| 40 | 1 | 0 | 0 | 0 | 3.0 |
| 41 | 0 | 0 | 0 | 0 | 1.7 |
| 42 | 0 | 1 | 0 | 0 | 1.7 |
| 43 | 1 | 0 | 0 | 0 | 0.7 |
| 44 | 0 | 0 | 0 | 0 | 1.3 |
| 45 | 3 | 0 | 0 | 0 | 0.3 |
| 46 | 1 | 0 | 0 | 0 | 0.7 |
| 47 | 0 | 0 | 0 | 0 | 1.3 |
| 48 | 1 | 1 | 0 | 0 | 0.0 |
| 49 | 4 | 0 | 0 | 0 | 1.7 |
| 50 | 1 | 0 | 0 | 0 | 1.7 |
| 51 | 4 | 0 | 0 | 0 | 3.0 |
| 52 | 2 | 1 | 0 | 0 | 5.3 |
| 1 | 7 | 1 | 0 | 0 | 7.3 |
| 2 | 6 | 1 | 0 | 0 | 9.7 |
| 3 | 1 | 3 | 0 | 0 | 6.7 |
| 4 | 1 | 3 | 0 | 0 | 5.0 |
| 5 | 4 | 2 | 0 | 0 | 6.3 |
| 6 | 1 | 1 | 0 | 0 | 5.0 |
| 7 | 5 | 2 | 0 | 0 | 5.7 |
| 8 | 4 | 3 | 0 | 0 | 5.7 |
| 9 | 2 | 1 | 0 | 0 | 6.7 |

| Week | Non-influenza outbreaks | Influenza A outbreaks | Influenza B outbreaks | Influenza A & B outbreaks | 3 season mean |
|-------------|--------------------------------|------------------------------|------------------------------|--------------------------------------|----------------------|
| 10 | 1 | 0 | 0 | 0 | 3.0 |
| 11 | 2 | 3 | 1 | 0 | 3.7 |
| 12 | 2 | 4 | 0 | 0 | 3.7 |
| 13 | 0 | 1 | 0 | 0 | 1.0 |
| 14 | 1 | 5 | 0 | 0 | 2.0 |
| 15 | 0 | 2 | 1 | 0 | 2.7 |
| 16 | 1 | 0 | 0 | 0 | 1.3 |
| 17 | 0 | 1 | 0 | 0 | 2.0 |
| 18 | 0 | 0 | 0 | 0 | 1.7 |
| 19 | | | | | 1.0 |
| 20 | | | | | 0.3 |
| 21 | | | | | 0.7 |
| 22 | | | | | 1.0 |
| 23 | | | | | 0.3 |
| 24 | | | | | 0.3 |
| 25 | | | | | 0.0 |
| 26 | | | | | 0.7 |
| 27 | | | | | 0.0 |
| 28 | | | | | 1.0 |
| 29 | | | | | 1.0 |
| 30 | | | | | 1.7 |
| 31 | | | | | 0.7 |
| 32 | | | | | 0.3 |
| 33 | | | | | 0.7 |
| 34 | | | | | 0.0 |

Table for Figure 5: Gastroenteritis outbreaks in institutions and public hospitals, reported in Ottawa, 2018-2019 season to date, and previous three-season average

| Week | CDI | Norovirus | All other enteric outbreaks | 3 season mean |
|-------------|------------|------------------|------------------------------------|----------------------|
| 35 | 0 | 0 | 0 | 0.0 |
| 36 | 0 | 0 | 0 | 0.3 |
| 37 | 0 | 0 | 0 | 1.0 |
| 38 | 0 | 0 | 0 | 0.3 |
| 39 | 0 | 0 | 0 | 0.3 |
| 40 | 0 | 0 | 0 | 0.0 |
| 41 | 0 | 0 | 0 | 0.3 |
| 42 | 0 | 0 | 0 | 0.3 |
| 43 | 0 | 0 | 1 | 0.0 |
| 44 | 0 | 0 | 0 | 0.0 |
| 45 | 0 | 0 | 0 | 0.7 |
| 46 | 0 | 0 | 0 | 0.3 |
| 47 | 0 | 0 | 1 | 0.3 |
| 48 | 0 | 0 | 1 | 1.0 |
| 49 | 0 | 0 | 2 | 1.0 |
| 50 | 0 | 0 | 0 | 1.3 |
| 51 | 0 | 0 | 0 | 0.7 |
| 52 | 0 | 0 | 1 | 2.0 |
| 1 | 0 | 1 | 1 | 3.3 |
| 2 | 0 | 1 | 2 | 2.3 |
| 3 | 1 | 1 | 0 | 2.3 |
| 4 | 0 | 1 | 2 | 2.7 |
| 5 | 0 | 1 | 2 | 3.3 |
| 6 | 1 | 0 | 2 | 1.7 |
| 7 | 0 | 1 | 1 | 1.7 |
| 8 | 0 | 1 | 4 | 2.3 |
| 9 | 0 | 1 | 1 | 3.7 |

| Week | CDI | Norovirus | All other enteric outbreaks | 3 season mean |
|-------------|------------|------------------|------------------------------------|----------------------|
| 10 | 0 | 1 | 1 | 1.0 |
| 11 | 0 | 4 | 0 | 2.7 |
| 12 | 0 | 0 | 1 | 2.7 |
| 13 | 0 | 0 | 5 | 2.0 |
| 14 | 0 | 2 | 1 | 2.0 |
| 15 | 0 | 3 | 3 | 1.3 |
| 16 | 0 | 2 | 2 | 2.0 |
| 17 | 0 | 2 | 1 | 1.3 |
| 18 | 0 | 0 | 2 | 0.7 |
| 19 | | | | 0.3 |
| 20 | | | | 0.3 |
| 21 | | | | 1.0 |
| 22 | | | | 0.3 |
| 23 | | | | 0.3 |
| 24 | | | | 0.0 |
| 25 | | | | 0.0 |
| 26 | | | | 0.0 |
| 27 | | | | 0.3 |
| 28 | | | | 0.0 |
| 29 | | | | 0.0 |
| 30 | | | | 0.0 |
| 31 | | | | 0.3 |
| 32 | | | | 0.0 |
| 33 | | | | 0.3 |
| 34 | | | | 0.0 |