
2016-2017 Community Influenza Surveillance Report Update of Current Status January 31, 2017

Overall assessment

The current level of influenza activity in Middlesex-London is higher than in the previous week.

Current Local Activity

Between January 22nd and 28th, there were 50 cases of laboratory-confirmed influenza A, and one case of laboratory confirmed influenza B reported to the Middlesex-London Health Unit, of whom 28 were hospitalized and four died.

Since September 1st, 2016, 270 laboratory-confirmed cases of influenza have been reported. To date, two cases have been identified as influenza B; all other cases have been identified as influenza A. Of the influenza A cases that have been subtyped, all 83 have been identified as influenza A(H3). Also, there have been 24 influenza A outbreaks declared in facilities located in the Middlesex-London area.

Appendix A provides more details about laboratory-based influenza activity indicators, as well as other local indicators of respiratory illness. A graph showing all 270 laboratory-confirmed cases by week is provided at the end of this report in Appendix B. Appendix C provides a graph showing all institutional influenza outbreaks by week and institution type.

Useful Websites

- The latest Ontario Respiratory Virus Bulletin, issued by Public Health Ontario (PHO), is available at: <http://www.publichealthontario.ca/en/ServicesAndTools/SurveillanceServices/Pages/Ontario-Respiratory-Virus-Bulletin.aspx>
- The latest *FluWatch* report, issued by the Public Health Agency of Canada (PHAC), is available at: <http://www.phac-aspc.gc.ca/fluwatch/>.
- To find a free flu shot clinic near you, visit the Ministry of Health and Long-Term Care's "Find a Flu Shot Clinic" web page at: <http://www.ontario.ca/page/get-flu-shot/>.

Appendix A

Summary of Community Influenza Surveillance Indicators for Middlesex-London January 31, 2017

Table 1: Summary of laboratory-based influenza activity indicators, Middlesex-London and Ontario, 2016-2017 influenza surveillance season

Indicator	Reporting Period	Number Reported: <i>Current Reporting Period</i>	Number Reported: <i>Year to Date (from September 1, 2016)</i>	Recent Trends
Laboratory-confirmed cases¹	Jan. 22-28	Influenza A – 50 cases Influenza B – 1 cases	Influenza A – 268 cases Influenza B – 2 cases	Higher compared to the previous week (Jan. 15-21) when 20 influenza cases were reported. Please note that the week in which cases are reported does not necessarily reflect the date of onset of illness.
Influenza sub-types¹	Jan. 22-28	Influenza A(H3) – 19 cases Influenza A not subtyped – 31 cases	Influenza A(H3) – 83 cases Influenza A not subtyped – 185 cases	All influenza A strains subtyped to date have been influenza A(H3).
Hospitalizations¹	Jan. 22-28	28	147	Higher compared to the previous week (Jan. 15-21) when 3 hospitalizations were reported.
Deaths¹	Jan. 22-28	4	11	Higher compared to the previous week (Jan. 15-21) when one death was reported.
Influenza outbreaks in long-term care homes/retirement homes/acute care	Jan. 22-28	0	24	Lower compared to the previous week (Jan. 15-21) when one influenza outbreak was declared.
Percentage of samples that are positive for influenza (Ontario)²	Jan. 15-21	Influenza A – 27.8% positivity Influenza B – 0.2% positivity	N/A	Influenza A: Lower compared to 33.9% positivity reported in the previous week (Jan. 8-14). Influenza B: Same compared to 0.2% positivity reported in the previous week (Jan. 8-14).

Notes:

1 Numbers are subject to change week by week due to the retrospective nature of reporting.

2 Public Health Ontario, Ontario Respiratory Virus Bulletin 2016-2017

Table 2: Summary of community-based respiratory illness indicators, Middlesex-London, 2016-2017 influenza surveillance season

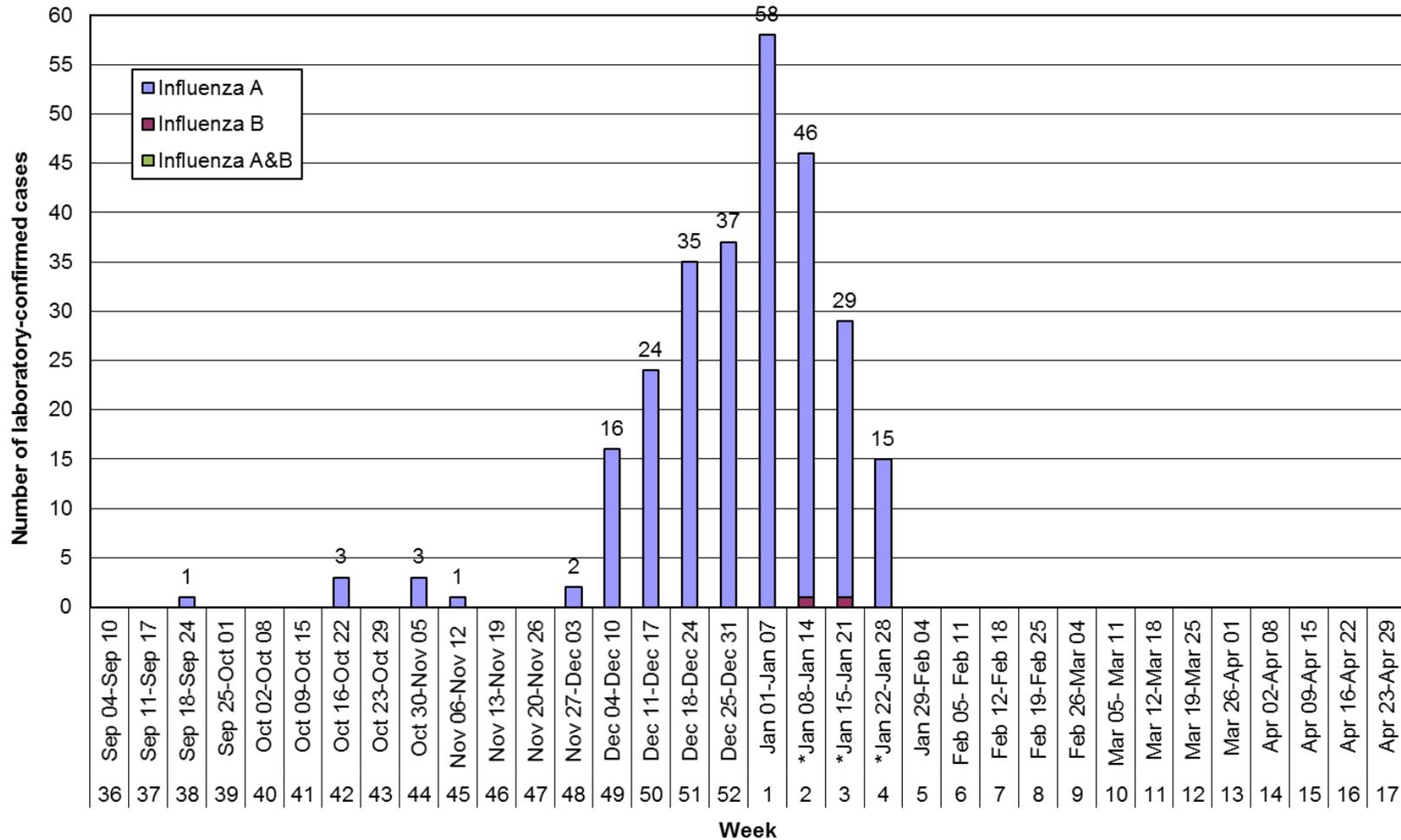
Indicator	Reporting Period	Number Reported: <i>Current Reporting Period</i>	Recent Trends
Hospital emergency room reports regarding the percentage of patients with fever and respiratory illness	Jan. 22-28	An average of 9.7% of patients presented with fever and respiratory symptoms. The proportion was highest at the pediatric emergency department, where 25.3% of patients presented with a fever and respiratory symptoms.	Similar compared to 9.3% reported in the previous week (Jan. 15-21). Higher than 22.5% reported in the previous week (Jan. 15-21).
Absence reports from elementary schools (i.e., absenteeism > 10%)	Jan. 23-27	Thirty elementary schools from one school board reported average absenteeism (due to all causes) exceeding 10%.	Higher than the previous week (Jan. 16-20), when 25 schools reported increased absenteeism.
Sentinel x-ray provider – newly identified bronchopneumonia cases	Jan. 23-28	Of chest x-rays performed, 5.8% were newly diagnosed bronchopneumonia cases.	Higher than the previous week (Jan. 16-21), when 3.7% of chest x-rays performed were newly diagnosed bronchopneumonia cases.

The Middlesex-London Health Unit gratefully acknowledges the contributions of the following community partners who provide data for this report:

- London Health Sciences Centre
- London X-Ray Associates
- St. Joseph's Health Care London
- Thames Valley District School Board

Appendix B

Laboratory-confirmed influenza cases, by influenza date†
Middlesex-London 2016-2017 influenza season (N=270)



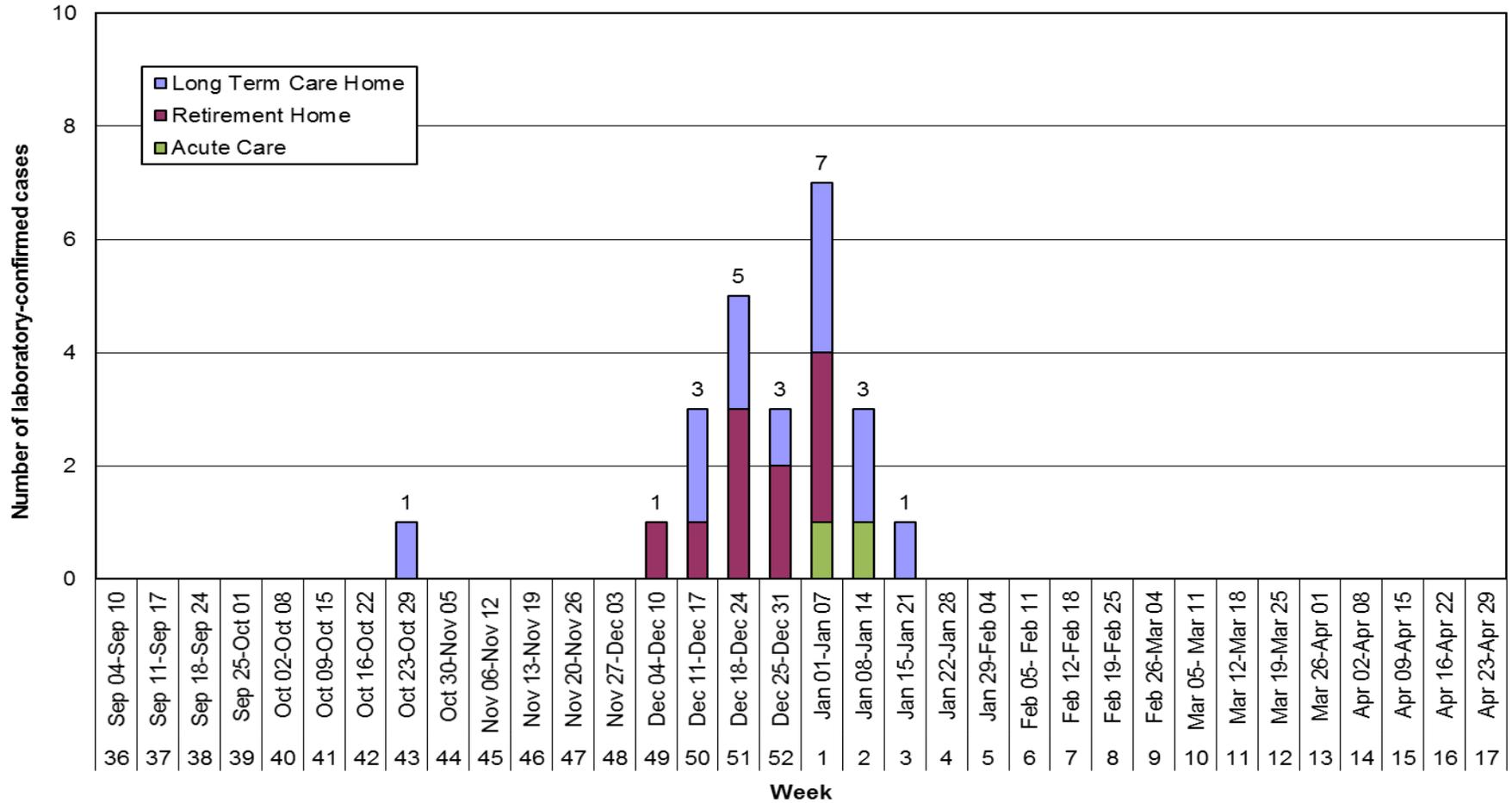
Source: Middlesex-London Health Unit internal influenza tracking database, extracted Jan 31, 2017.

† 'Influenza date' is the earliest of: symptom onset date, specimen collection date, and reported date. As a result, the weekly counts shown in this section differ from those provided in other sections of this report.

* Counts may be incomplete and are subject to change, due to the retrospective nature of reporting.

Appendix C

**Institutional influenza outbreaks, by institution type
Middlesex-London 2016-2017 influenza season (N=24)**



Source: Middlesex-London Health Unit internal influenza tracking database, extracted Jan 31, 2017.

* Counts may be incomplete and are subject to change, due to the retrospective nature of reporting.