

# 2018-2019 Community Influenza Surveillance Report Update of Current Status April 24th, 2019

#### **Overall Assessment**

Although influenza cases continue to be reported from both the City of London and Middlesex County, when compared to earlier in the season, the circulation of the virus appears to be declining in our region.

#### **Analysis and Action**

The influenza season continues in the Middlesex-London region and elsewhere in Ontario. Regardless of the level of local influenza activity, there are a number of easy-to-follow steps that residents can take to avoid becoming sick throughout the year. While washing your hands with soap and warm water, or using an alcohol-based hand sanitizer, remain effective ways of preventing many illnesses, including influenza, local residents should also cover their coughs and sneezes, clean and disinfect high-touch surfaces frequently, and stay home when they feel sick.

### **Details of Current Local Activity**

Between April 14<sup>th</sup> and April 20<sup>th</sup>, there were 10 laboratory-confirmed cases of influenza A reported to the Health Unit, six of whom were hospitalized.

Since September 1, 2018, there have been 477 laboratory-confirmed influenza A cases and five cases of influenza B reported to the Health Unit. Among these cases there have been 241 hospitalizations and 20 deaths. Over this time period there have also been 35 influenza A outbreaks and one influenza B outbreak declared in hospitals, long-term care facilities, and retirement homes.

Appendix A provides additional details about laboratory-based influenza activity indicators for the current reporting week, as well as other local indicators of respiratory illness. A graph showing all 482 laboratory-confirmed cases by week of illness onset is provided at the end of this report in Appendix B.

### **Provincial and National Comparison**

In this week's *Ontario Respiratory Pathogen Bulletin*, Public Health Ontario states that influenza activity across the province was similar when compared to what had been reported the previous week. Influenza A activity across Ontario is moderate, while influenza B activity remains low. Among the influenza A specimens that have been subtyped this season, 59.8% have been the A(H1N1)pdm09 strain. However, influenza A (H3) cases have been increasing compared to earlier in the season, and accounted for 91.6% of influenza A samples subtyped in the most recent week.

In this week's *FluWatch*, the Public Health Agency of Canada reports that, the most common influenza virus identified to date this season is influenza A, with 74%\_of subtyped specimens being the A(H1N1)pdm09 strain. The majority (83%) of influenza A(H1N1)pdm09 cases have been among those under the age of 65 years, while 57% of all influenza A(H3N2) cases have been among those 65 years of age and over.

- The latest Ontario Respiratory Pathogen Bulletin, issued by Public Health Ontario (PHO), is available at <a href="http://www.publichealthontario.ca/en/ServicesAndTools/SurveillanceServices/Pages/Ontario-Respiratory-Virus-Bulletin.aspx">http://www.publichealthontario.ca/en/ServicesAndTools/SurveillanceServices/Pages/Ontario-Respiratory-Virus-Bulletin.aspx</a>
- The latest *FluWatch* report, issued by the Public Health Agency of Canada (PHAC), is available at <a href="http://www.phac-aspc.gc.ca/fluwatch/">http://www.phac-aspc.gc.ca/fluwatch/</a>

## Appendix A Summary of Community Influenza Surveillance Indicators for Middlesex-London April 14<sup>th</sup> to April 20<sup>th</sup>, 2019

Table 1: Summary of laboratory-based influenza activity indicators, Middlesex-London and Ontario, 2018-2019 influenza surveillance season

Indicator	Reporting Period	Number Reported: Current Reporting Period	Number Reported: Year to Date (from September 1, 2018)	Recent Trends
Laboratory-confirmed cases <sup>1, 4</sup>	Apr. 14-20 (week 16) <sup>2</sup>	Influenza A – 10 cases Influenza B – 0 cases	Influenza A – 477 cases Influenza B – 5 cases	Influenza A: <b>Lower</b> than the previous week (Apr. 7-13) when 18 cases were reported.  Influenza B: <b>Lower</b> than the previous week (Apr. 7-13) when one case was reported.
Influenza sub-types <sup>1</sup>	Apr. 14-20	Influenza A (H3) – 0 cases Influenza A (H1N1)pdm09 – 0 cases Influenza A not yet subtyped – 10 cases Influenza B not yet subtyped – 0 case	Influenza A (H3) – 31 cases Influenza A (H1N1)pdm09 – 54 cases Influenza A not yet subtyped – 392 cases Influenza B not yet subtyped – 5 cases	
Hospitalizations <sup>1, 5</sup>	Apr. 14-20	6	241	<b>Lower</b> than the previous week (Apr. 7-13) when 12 hospitalizations were reported.
Deaths <sup>1, 5</sup>	Apr. 14-20	0	20	<b>Lower</b> as the previous week (Apr. 7-13) when one death was reported.
Influenza outbreaks in long- term care homes/retirement homes/acute care	Apr. 14-20	Influenza A – 1 outbreak Influenza B – 0 outbreaks	Influenza A – 35 outbreaks Influenza B – 1 outbreak	Influenza A: <b>Lower</b> as the previous week (Apr. 7-13) when two outbreaks were reported.  Influenza B: <b>Same</b> as the previous week (Apr. 7-13) when no outbreaks were reported.
Percentage of samples that are positive for influenza (Ontario) <sup>3</sup>	Apr. 7-13 (week 15) <sup>2</sup>	Influenza A – 14.1% positivity Influenza B – 1.4 %positivity	N/A	Influenza A: <b>Lower</b> than 15.9% positivity reported the previous week (Mar. 31-Apr. 6).  Influenza B: <b>Higher</b> as 0.4% positivity reported the previous week (Mar. 31-Apr. 6).

#### Notes:

- 1 Numbers are subject to change week by week due to the retrospective nature of reporting.
- 2 Weekly influenza monitoring often uses numbered weeks from 1 to 52 weeks per year. A reference week calendar can be found at <a href="https://www.canada.ca/en/public-health/services/diseases/flu-influenza/influenza-surveillance/fluwatch-weeks-calendar.html">https://www.canada.ca/en/public-health/services/diseases/flu-influenza-surveillance/fluwatch-weeks-calendar.html</a>
- 3 Public Health Ontario, Ontario Respiratory Pathogen Bulletin 2018-2019
- 4 The week cases are reported to the Health Unit may not be the same as week of illness onset.
- 5 The week hospitalizations and deaths are reported to the Health Unit may not be the same as the week in which they occurred, or the same as the week of illness onset.

Table 2: Summary of community-based respiratory illness indicators, Middlesex-London, 2018-2019 influenza surveillance season

Indicator	Reporting	Number Reported:	Recent Trends
	Period	Current Reporting Period	
Hospital emergency room	Apr. 14-20	An average of 7.8% of patients presented with fever and	Similar to 7.9% reported the previous week (Apr. 7-13).
reports regarding the		respiratory symptoms.	
percentage of patients with			
fever and respiratory illness		The proportion was highest at the pediatric emergency	Higher than 20.1% reported the previous week (Apr. 7-13).
		department, where 21.9% of patients presented with a	
		fever and respiratory symptoms.	
Absence reports from	Apr. 15-19	Data not reported.	
elementary schools			
(i.e., absenteeism > 10%)			

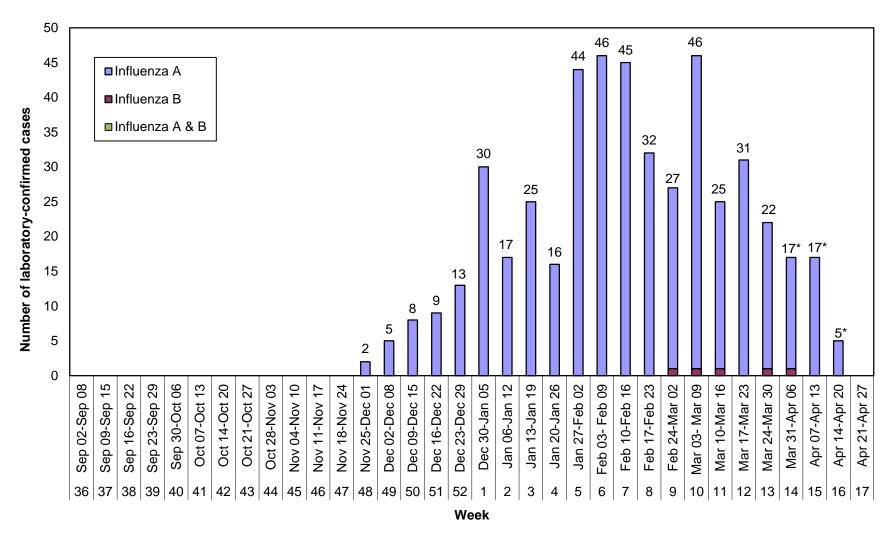
The Middlesex-London Health Unit gratefully acknowledges the contributions of the following community partners who provide data for this report:

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

Appendix B

Laboratory-confirmed influenza cases, by influenza date†

Middlesex-London 2018-2019 influenza season (N=482)



Source: Middlesex-London Health Unit internal influenza case tracking database, extracted April 23, 2019.

<sup>† &#</sup>x27;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.

<sup>\*</sup> Counts may be incomplete and are subject to change due to the retrospective nature of reporting.