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## 2016-2017 Community Influenza Surveillance Report Update of Current Status February 22, 2017

### Overall assessment

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

### Current Local Activity

Between February 12<sup>th</sup> and 18<sup>th</sup>, there were 34 cases of laboratory-confirmed influenza A and three cases of laboratory-confirmed influenza B reported to the Middlesex-London Health Unit, of whom 14 were hospitalized. In addition, four influenza outbreaks were declared in facilities and two deaths were reported.

Since September 1<sup>st</sup>, 2016, 360 laboratory-confirmed cases of influenza have been reported. To date, five cases have been identified as influenza B; all other cases have been identified as influenza A. Of the 100 influenza A cases that have been subtyped, 99 have been identified as influenza A(H3), and one has been identified as an influenza A(H3) and influenza A(H1N1)pdm09 co-infection. There have been 32 influenza A outbreaks declared in facilities located in the Middlesex-London area as well as 187 hospitalizations and 14 deaths.

Appendix A provides more details about laboratory-based influenza activity indicators, as well as other local indicators of respiratory illness. A graph showing all 360 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 February 22, 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
<b>Laboratory-confirmed cases<sup>1</sup></b>	Feb. 12-18	Influenza A – 34 cases Influenza B – 3 cases	Influenza A – 355 cases Influenza B – 5 cases	<b>Higher</b> compared to the previous week (Feb. 5-11) when 25 influenza cases were reported.  <b>Please note that the week in which cases are reported does not necessarily reflect the date of onset of illness.</b>
<b>Influenza sub-types<sup>1</sup></b>	Feb. 12-18	Influenza A(H3) – 8 cases Influenza A(H3) & Influenza A(H1N1)pdm09 – 0 cases Influenza A not subtyped – 26 cases	Influenza A(H3) – 99 cases Influenza A(H3) & Influenza A(H1N1)pdm09 – 1 case Influenza A not subtyped – 255 cases	Influenza A strains subtyped to date have been influenza A(H3) and influenza A(H1N1)pdm09.
<b>Hospitalizations<sup>1</sup></b>	Feb. 12-18	14	187	<b>Higher</b> compared to the previous week (Feb. 5-11) when 12 hospitalizations were reported.
<b>Deaths<sup>1</sup></b>	Feb. 12-18	2	14	<b>Higher</b> compared to the previous week (Feb. 5-11) when no deaths were reported.
<b>Influenza outbreaks in long-term care homes/retirement homes/acute care</b>	Feb. 12-18	4	32	<b>Higher</b> compared to the previous week (Feb. 5-11) when two influenza outbreaks were declared.
<b>Percentage of samples that are positive for influenza (Ontario)<sup>2</sup></b>	Feb. 5-11	Influenza A – 22.9% positivity Influenza B – 0.8% positivity	N/A	Influenza A: <b>Lower</b> compared to 24.0% positivity reported in the previous week (Jan. 29-Feb. 4).  Influenza B: <b>Higher</b> compared to 0.3% positivity reported in the previous week (Jan. 29- Feb. 4).

**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**

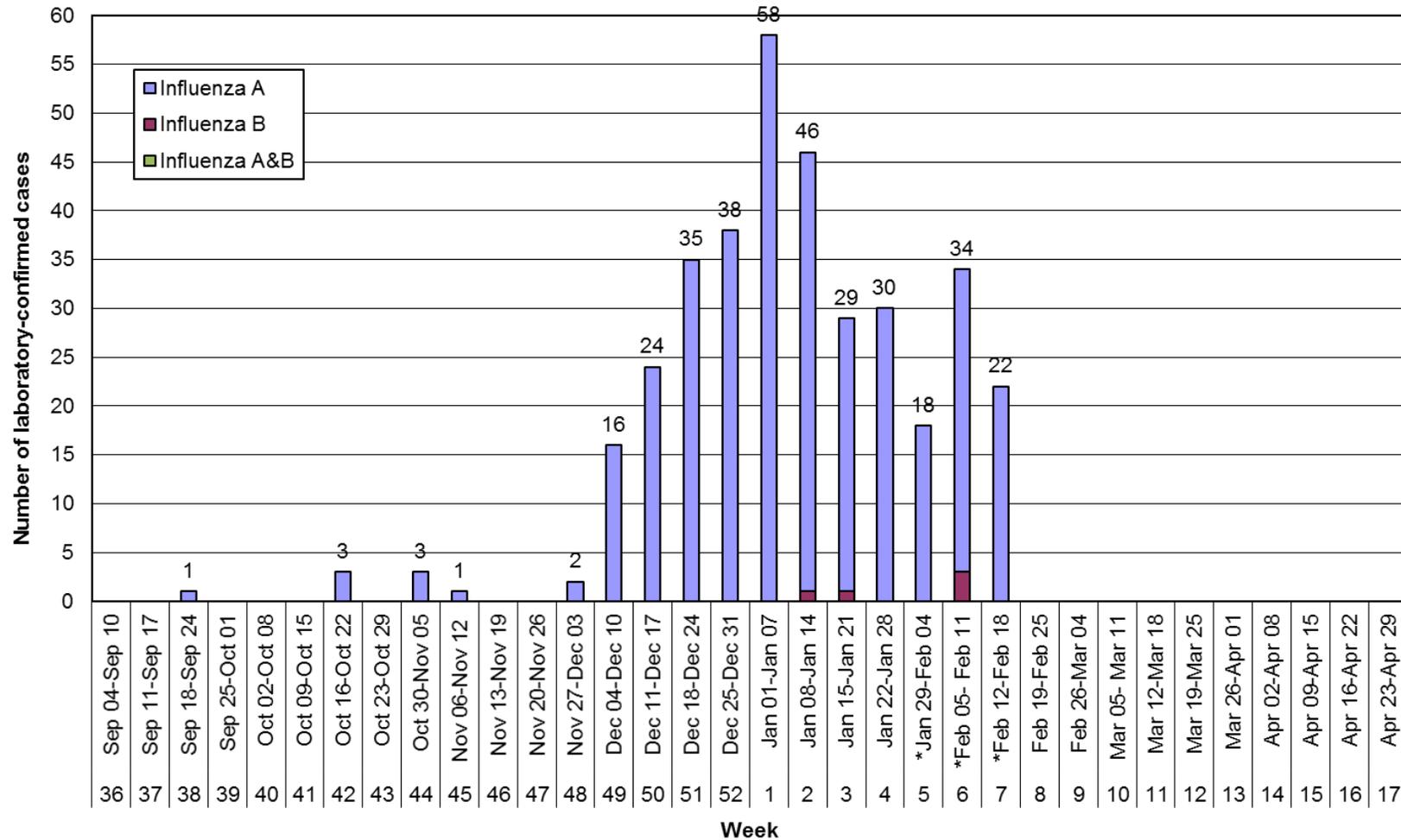
Indicator	Reporting Period	Number Reported: <i>Current Reporting Period</i>	Recent Trends
<b>Hospital emergency room reports regarding the percentage of patients with fever and respiratory illness</b>	Feb. 12-18	An average of 8.4% of patients presented with fever and respiratory symptoms.  The proportion was highest at the pediatric emergency department, where 22.1% of patients presented with a fever and respiratory symptoms.	<b>Same</b> compared to 8.8% reported in the previous week (Feb. 5-11).  <b>Lower</b> compared to 24.3% reported in the previous week (Feb. 5-11).
<b>Absence reports from elementary schools (i.e., absenteeism &gt; 10%)</b>	Feb. 13-17	Forty elementary schools from one school board reported average absenteeism (due to all causes) exceeding 10%.	<b>Higher</b> than the previous week (Feb. 6-10), when 36 schools reported increased absenteeism.
<b>Sentinel x-ray provider – newly identified bronchopneumonia cases</b>	Feb. 13-18	Of chest x-rays performed, 2.6% were newly diagnosed bronchopneumonia cases.	<b>Lower</b> compared to the previous week (Feb. 6-11), when 4.2% 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=360)**



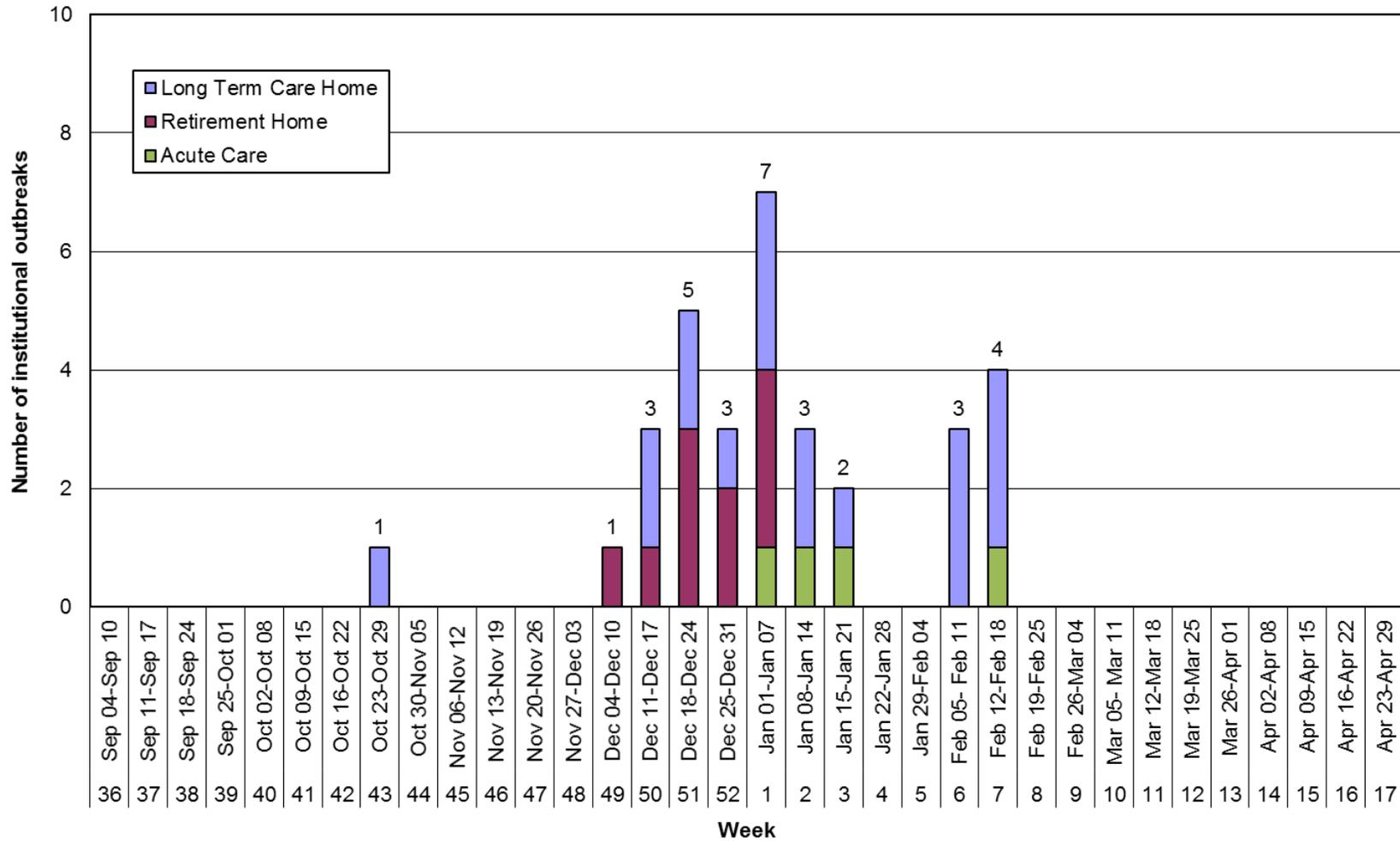
Source: Middlesex-London Health Unit internal influenza tracking database, extracted Feb. 22, 2017.

† '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=32)**



Source: Middlesex-London Health Unit internal influenza tracking database, extracted Feb. 22, 2017.

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