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**2013-2014 Influenza Surveillance Report  
Update of Current Status and Issues  
May 26, 2014**

### **Current Local Activity**

Between May 19<sup>th</sup> and 25<sup>th</sup>, the level of influenza activity in Middlesex-London was lower compared to the previous week. There were four new laboratory-confirmed cases of influenza reported last week (one influenza A and three influenza B), as well as the death of an individual previously identified with influenza. The total number of cases reported last week is lower than the seven cases reported the previous week (May 12<sup>th</sup> to May 18<sup>th</sup>). Since September 1<sup>st</sup>, 2013, a total of 204 laboratory-confirmed influenza A cases, 201 influenza B cases, and two influenza A and B co-infections have been reported to the Health Unit. A graph showing all 407 laboratory-confirmed cases by week is provided in Appendix B at the end of this report.

To date, the majority (51.1%) of laboratory-confirmed influenza cases reported in Middlesex-London have been among adults between the ages of 20 and 64. Children under the age of five years and seniors 65 years of age and older are over-represented among laboratory-confirmed influenza cases, relative to their representation in the general population. Children under five years of age represent only 5.5% of the general population in Middlesex-London, but account for 10.3% of confirmed influenza cases; similarly, people 65 years of age and older represent 14.8% of the general population, but account for 30.7% of cases.

### **Hospitalizations and Deaths**

Of the four new laboratory-confirmed influenza cases identified between May 19<sup>th</sup> and 25<sup>th</sup>, two were hospitalized. Since September 1<sup>st</sup>, 2013, there have been 206 hospitalizations among the 407 people with laboratory-confirmed influenza (50.6%). Of those hospitalized, 101 people had influenza A (49.0%), 103 people had influenza B (50.0%) and two people were infected with both influenza A and B (1.0%).

As noted above, one death was reported this past week in a Middlesex-London resident who had been previously identified with laboratory-confirmed influenza. Since September 1<sup>st</sup>, 2013, there have been 17 deaths among those in London and Middlesex County who had laboratory-confirmed influenza.

### **Current Outbreak Activity**

No outbreaks due to influenza were declared between May 19<sup>th</sup> and 25<sup>th</sup>. In total, there have been 21 outbreaks this season; influenza A has been identified in seven outbreaks, while influenza B has been identified in 14 outbreaks. Influenza A(H1N1)pdm09 was identified in two of the seven influenza A outbreaks and influenza B/Massachusetts/02/12-like was identified in one of the 14 influenza B outbreaks.

### **Influenza Immunization**

The influenza immunization status is known for 360 of the 407 (88.5%) reported cases; of these, 247 people were 64 years of age and under, and 113 were 65 years of age and over. Among those who were 64 years of age and under, 38 (15.4%) received their influenza immunization this influenza season and 209 (84.6%) did not. Among those who were 65 years of age and older, 80 (70.8%) received their influenza immunization this influenza season and 33 (29.2%) did not. The [National Advisory Committee on Immunization](#) (NACI) states "In the elderly, vaccine effectiveness is about half of that of healthy adults and varies depending on the outcome and the study population. Systematic reviews have also demonstrated that influenza vaccine decreases the incidence of pneumonia, hospital admissions and deaths in the elderly and reduces exacerbations in persons with chronic obstructive pulmonary disease."

Influenza vaccinations are still available at some health care providers' offices and participating pharmacies. 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://health.gov.on.ca/en/public/programs/publichealth/flu/finder.aspx>.

### **Current Provincial Activity**

Overall influenza activity across Ontario was lower compared to the previous week. Between May 11<sup>th</sup> and May 17<sup>th</sup>, 15 cases of influenza A and 140 cases of influenza B were reported from multiple regions of the province. The percent positivity for all influenza types was 11.1% which is lower compared to the 15.5% positivity reported the previous week. In total, 9,679 laboratory-confirmed influenza cases have been reported across the province since September 1<sup>st</sup>, 2013. The latest *Ontario Respiratory Virus Bulletin* from Public Health Ontario can be accessed at:

<http://www.publichealthontario.ca/en/ServicesAndTools/SurveillanceServices/Pages/Ontario-Respiratory-Virus-Bulletin.aspx>.

### **Current National Influenza Strain Typing**

In Canada, 2,052 influenza virus samples (114 influenza A(H3N2), 1,367 influenza A(H1N1)pdm09 and 571 influenza B) have been antigenically characterized since the beginning of the current influenza season. Of the 2,052 influenza samples, nearly all (98.7%) matched the components of the 2013/2014 influenza vaccine. The components of the 2013/2014 influenza vaccine are: A/California/7/2009 (H1N1) pdm09-like virus, A/Victoria/361/2011b (H3N2) virus, and a B/Massachusetts/2/2012-like virus. The latest *FluWatch* from the Public Health Agency of Canada can be accessed through the following link: <http://www.phac-aspc.gc.ca/fluwatch/>.

The current and previous editions of the Middlesex-London Health Unit *Community Influenza Surveillance Report* are available on the Health Unit's website at <https://www.healthunit.com/influenza-surveillance>.

**Appendix A**  
**Summary of Community Influenza Surveillance Indicators for Middlesex-London**  
**May 26, 2014**

The level of influenza activity in Middlesex-London is lower compared to the previous week.

Indicator	Reporting Period	Current Week	Year to Date (from September 1, 2013)	Recent Trends
<b>Laboratory information</b>				
<b>Laboratory-confirmed cases<sup>1</sup></b>	May 19-25	Influenza A – 1 case Influenza B – 3 cases Influenza A & B – 0 cases	Influenza A – 204 cases Influenza B – 201 cases Influenza A & B – 2 cases	The four laboratory-confirmed influenza cases reported between May 19 <sup>th</sup> and 25 <sup>th</sup> are fewer than the seven cases reported in the previous <i>Community Influenza Surveillance Report</i> issued May 20 <sup>th</sup> , 2014.
<b>Influenza Subtypes<sup>1</sup></b>	May 19-25	No new subtyping results received.	40 of 41 (97.6%) of subtyped influenza A samples were influenza A(H1N1) pdm09  One of 41 (2.4%) of subtyped influenza A samples was influenza A(H3)  Two influenza B samples were subtyped as B/Massachusetts/02/12-like	Almost all influenza A strains subtyped to date have been influenza A(H1N1)pdm09.  Influenza B strains subtyped to date have been B/Massachusetts/02/12-like
<b>Hospitalizations<sup>1</sup></b>	May 19-25	2	206	Between May 19 <sup>th</sup> and May 25 <sup>th</sup> , two people with laboratory-confirmed influenza B were hospitalized.
<b>Deaths<sup>1</sup></b>	May 19-25	1	17	The death of one person previously reported to have laboratory-confirmed influenza case was reported to the Health Unit last week.  To date, 17 deaths have been reported among individuals in Middlesex-London with laboratory-confirmed influenza.
<b>Influenza outbreaks in long-term care homes/retirement homes/acute care</b>	May 19-25	Influenza A – 0 outbreaks Influenza B – 0 outbreaks	Influenza A – 7 outbreaks Influenza B – 14 outbreaks	There were no influenza outbreaks declared in facilities during this past reporting period. This is lower than the one outbreak that was reported the previous week.
<b>Percentage of samples that are positive for influenza (Ontario)<sup>2</sup></b>	May 11-17	Influenza A: 1.6% positivity Influenza B: 9.5% positivity	N/A	Influenza A: Slightly higher compared to the 0.8% reported the previous week. Influenza B: Lower compared to the 14.8% positivity reported the previous week.

Indicator	Reporting Period	Current Week	Recent Trends
<b>Other Community Surveillance Indicators</b>			
<b>Hospital emergency room reports regarding the percentage of patients with fever and respiratory illness</b>	May 18-24	Data not available.	Data not available.
<b>Absence reports from elementary schools (i.e., absenteeism &gt; 10%)</b>	May 19-23	Between May 20 <sup>th</sup> and 23 <sup>rd</sup> , one elementary school from one school board reported a four-day average absenteeism rate exceeding 10%.	The number of schools reporting absenteeism exceeding 10% was unchanged from the previous week.
<b>Sentinel X-ray provider reports regarding newly identified bronchopneumonia cases</b>	May 19-24	From May 19 <sup>th</sup> to 24 <sup>th</sup> , 4.2% of chest x-rays performed were newly diagnosed bronchopneumonia cases.	The proportion of newly diagnosed bronchopneumonia cases was higher compared to the previous week.

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 2013-2014, retrieved from

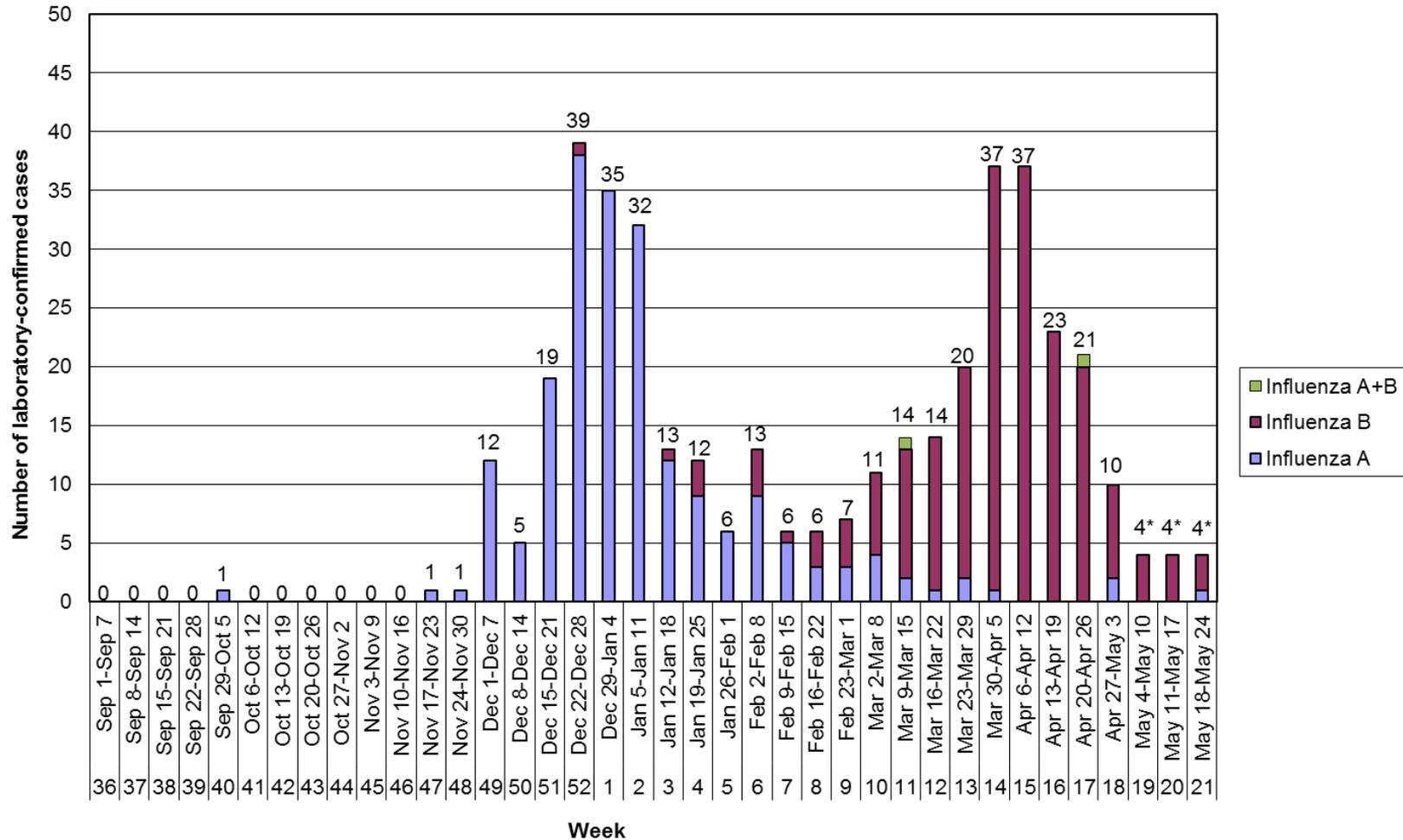
<http://www.publichealthontario.ca/en/ServicesAndTools/SurveillanceServices/Pages/Ontario-Respiratory-Virus-Bulletin.aspx>

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 May 26, 2014

**Laboratory-confirmed influenza cases, by influenza date†  
Middlesex-London 2013-2014 influenza season (N=407)**



† 'Influenza date' is the earliest of: symptom onset date, specimen collection date, and reported date.

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

Source: Middlesex-London Health Unit internal influenza case tracking database, extracted May 26, 2014.