



BOSTON PUBLIC HEALTH COMMISSION (BPHC)

Communicable Disease Control Division

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Boston Influenza Report - For the Week Ending 4/20/2019 (MMWR Week 16)

9/30/2018-4/20/2019 (MMWR Week 16)

Reported Cases (Boston Residents)	# (% of total)
Influenza A	2996 (81.0%)
Influenza B	697 (18.8%)
Influenza A and B	8 (0.2%)
Influenza (type unspecified)	0
TOTAL (season-to-date)	3701

Boston ED ILI Surveillance*	
This Week ILI% (Week 16)	1.81%
Last Week ILI% (Week 15)	1.85%
State/National ILI Surveillance**	
This Week Massachusetts ILI% (Week 16)	1.99%
This Week National ILI% (Week 16)	2.12%

Summary: As of 4/20/2019, 3,701 total cases of laboratory-confirmed influenza in Boston residents have been reported to BPHC since 9/30/2018. The proportion of reported cases due to flu B continues to increase, which is often seen as the season subsides.

Through death certificate review and voluntary reporting by healthcare facilities, BPHC tracks influenza-related deaths among Boston residents. Since the beginning of the season, seven influenza-associated deaths in Boston residents have been reported. All seven were older adults with multiple medical conditions. Nationally and statewide, only pediatric flu-related deaths are reportable. To date, the Massachusetts Department of Public Health has reported four influenza-related pediatric deaths, compared to one during the 2017-2018 season; none were residents of Boston. Nationally, 96 influenza-related pediatric deaths have been reported to date including five influenza-associated deaths reported during week 16. During the 2017-18 season, a total of 186 influenza-related pediatric deaths were reported. Influenza-like illness (ILI) comprised 1.81% of all Boston ED visits this week, a slight decrease from the previous week. Geographic distribution of flu activity in MA continues to be widespread. Intensity of ILI in the Commonwealth remains categorized as low.

It is imperative to remain vigilant regarding the persistence of flu in our community as the season winds down.

Providers should continue to offer seasonal influenza vaccination to all unvaccinated persons, particularly children ≤ 17 years of age.

From 9/30/2018-4/20/2019, 54.0% of influenza specimens tested by public health laboratories were positive for A(H1N1). Of the remaining, 39.1% were A(H3N2), 3.6% were A (untyped), and 3.3% were type B. A(H1N1) viruses are associated with increased flu activity in persons ≤17 years of age. All influenza strains that have been characterized in Massachusetts this season to date are covered by the current influenza vaccine.

CDC released interim vaccine effectiveness (VE) estimates. The overall VE is 47% (95% CI: 34%-57%). This is consistent with what has been seen (40%-60%) in recent seasons when vaccine is well-matched to circulating strains. The highest overall VE (61%) was noted in children 6 months of age to 17 years of age. These estimates are interim and subject to change. For more information go to: <https://www.cdc.gov/mmwr/volumes/68/wr/pdfs/mm6806-H.pdf>

Vaccination with influenza vaccine is the best way to prevent influenza. Vaccinated persons who develop flu tend to have milder illness and are less likely to spread flu to others including those unable to receive vaccine. Flu vaccine has been shown to be life-saving in children; 80% of pediatric flu deaths occur in unvaccinated children. Information on vaccination sites is available at <https://vaccinefinder.org/>. Pharmacies also offer vaccine; however, children under the age of 9 must receive vaccine through a medical provider.

*Influenza-like illness (ILI) is defined as "flu" OR "fever AND (cough OR sore throat)" in ED chief complaint data captured by BPHC Syndromic Surveillance System.

**Massachusetts and National ILI data are calculated using ILInet outpatient surveillance data from sentinel sites. The City of Boston uses different methodology derived from the BPHC Syndromic Surveillance System. For more information on ILInet go to: <https://www.cdc.gov/flu/weekly/overview.htm>.

***% Hospitalized=proportion of all confirmed influenza cases who were hospitalized.

Cases of influenza diagnosed in Boston and confirmed by any laboratory test must be reported to BPHC by calling (617) 534-5611 or faxing to (617) 534-5905.

SEASON TO DATE HOSPITALIZATION (THROUGH MMWR WEEK 16)			
SEASON	# CASES	# HOSPITALIZED	% HOSPITALIZED***
2018-2019	3701	558	15
2017-2018	4020	725	18

Figure 1. Weekly Reported Influenza Cases (in Boston Residents) and % ILI ED Visits, 2018-2019 Season

