

Influenza and Influenza-like Illness Surveillance

MMWR Week 15
April 12-18, 2009

Media Talking Points

Activity Level: **Sporadic Activity**

- Definition: Small numbers of laboratory-confirmed influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.

Surveillance Data:

- Influenza-like Illness (ILI) Sentinel Providers reported 0.25% of patients had ILI signs and symptoms. Influenza-like Illness is defined as a fever ($\geq 100^{\circ}$ F), **and** cough and/or sore throat. Temperature can be measured in the physician's office or at home.
- Over-the-counter (OTC) sales did not experience a statistically significant deviation from the expected.
- Emergency department visits experienced a statistically significant deviation from the expected in four regions.
- ODH lab reported 147 positive confirmed isolates (total through 4/21/09). Circulating Strains: (90) Influenza A/ (H1N1), (57) Influenza B/Malaysia-like.
- Influenza B viruses currently circulating in the U.S. can be divided into two lineages represented by the B/Yamagata/16/88 and B/Victoria/02/87 viruses. The influenza B viruses identified by the ODH lab belong to the B/Victoria lineage and are not related to the current vaccine strain.
- Influenza-associated hospitalizations reported indicate 86 positive results by culture confirmation (total through 4/21/09): (58) Influenza A, (28) Influenza B.
- Incidence of 2009 confirmed influenza-associated hospitalizations = 554 (total through 4/21/09).
- Four confirmed influenza-associated pediatric mortalities have been reported: two from Hamilton County (one influenza A, one influenza B), one from Summit County with influenza A, and one from Brown County with influenza B (through 4/21/09).

Analysis Considerations:

- No significant or confirmed geographic clustering of any data was detected.
- Influenza-associated hospitalization became a reportable condition on 1/1/09. Therefore, only cases that were entered after 1/1/09 will be considered for analysis purposes.
- The Ohio Department of Health Laboratory (ODHL) conducts culture confirmation for influenza testing, and these results are used in conjunction with other data sources to determine Ohio's influenza activity level each week. Viral culture tests that are reported for cases of influenza-associated hospitalizations will also be taken into consideration when determining influenza activity levels.

2008-09 Season Cumulative Influenza Results reported by ODH Lab by County*

County	# A/(H1N1)	# B/Malaysia-like	# No Virus Isolated/Recovered	# Test not Performed	Total
Athens	2	1	1		4
Clark	1				1
Cuyahoga	3	1	3		7
Defiance			1		1
Franklin	46	30	13		89
Greene	7	3	3		13
Hamilton	4	6	8		18
Henry			1		1
Holmes		2			2
Knox	4			1	5
Licking			2		2
Logan				1	1
Lorain	2	1	5		8
Lucas			2		2
Montgomery	4	4	6		14
Richland			1		1
Stark	14	6	1		21
Summit	3	3			6
Season Totals	90	57	47	2	196

*Lab data based on county of provider that submitted specimen.

**CDC Influenza A/ (H1N1) Antiviral Resistance Test Results
Ohio Specimens; 2008-2009 Influenza Season**

Results ¹	# Specimens/Region
Sensitive to Adamantanes Resistant to Oseltamivir Sensitive to Zanamivir	13/Central Region
	2/East Central Region
	2/North East Region
	1/South West Region
	1/ West Central Region

¹Nationally, 99.3% of A/ (H1N1) specimens were resistant to Oseltamivir, while 0.4% were resistant to Adamantanes and none were resistant to Zanamivir (as of 4/11/09).

National activity levels and more information can be found at the following CDC pages:

- <http://www.cdc.gov/flu/weekly/usmap.htm>
- <http://www.cdc.gov/flu/>

If you have any further questions or comments about surveillance for seasonal influenza for the State of Ohio, please contact Shannon Page at Shannon.Page@odh.ohio.gov or by telephone at (614) 466-0456.