

## Influenza and Influenza-like Illness Surveillance

MMWR Week 12  
March 22-28, 2009

### Media Talking Points

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#### Activity Level: **Local Activity**

- Definition: Increased ILI in 1 region; ILI activity in other regions is not increased AND recent (within the past 3 weeks) lab evidence of influenza in region with increased ILI, OR 2 or more institutional outbreaks (ILI or lab confirmed) in 1 region; ILI activity in other regions is not increased AND recent (within the past 3 weeks) lab evidence of influenza in region with the outbreaks; virus activity is no greater than sporadic in other regions.

#### Surveillance Data:

- Influenza-like Illness (ILI) Sentinel Providers reported 0.61% 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 two regions.
- ODH lab reported 135 positive confirmed isolates (total through 3/31/09). Circulating Strains: (87) Influenza A/ (H1N1), (48) 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 80 positive results by culture confirmation (total through 3/31/09): (57) Influenza A, (23) Influenza B.
- Incidence of 2009 confirmed influenza-associated hospitalizations = 481 (total through 3/31/09).
- Two confirmed influenza-associated pediatric mortalities have been reported: one from Hamilton County with influenza A, and one from Brown County with influenza B (through 3/31/09).

#### 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
Franklin	46	22	11		79
Greene	6	3	3		12
Hamilton	3	5	6		14
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	3	4	5		12
Richland			1		1
Stark	14	6	1		21
Summit	3	3			6
<b>Season Totals</b>	<b>87</b>	<b>48</b>	<b>41</b>	<b>2</b>	<b>178</b>

\*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 <sup>1</sup>	# Specimens/Region
Sensitive to Adamantanes Resistant to Oseltamivir Sensitive to Zanamivir	9/Central Region
	2/East Central Region
	2/North East Region
	1/South West Region
	1/West Central Region

<sup>1</sup>Nationally, 99.1% of A/ (H1N1) specimens were resistant to Oseltamivir, while 0.5% were resistant to Adamantanes and none were resistant to Zanamivir (as of 3/21/09).

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](mailto:Shannon.Page@odh.ohio.gov) or by telephone at (614) 466-0456.