

Seasonal Influenza and Influenza-like Illness Surveillance

MMWR Week 21
May 24-30, 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 0.30% 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 experienced a statistically significant deviation from the expected in one region.
- Emergency department visits experienced a statistically significant deviation from the expected in four regions.
- ODH lab reported 149 positive isolates confirmed through traditional seasonal influenza testing methods (total through 6/2/09). Circulating Strains: (90) Influenza A/ (H1N1), (59) Influenza B/Malaysia-like.
- ODH lab reported results for those cases that were negative for novel influenza A H1N1 infection, but PCR positive for seasonal influenza (included in second table below). Positive results: (12) influenza A/H1, (13) influenza A/H3, (3) influenza B (total through 6/2/09).
- Results obtained from novel influenza A H1N1 testing are not included here. Please see ODH website for more details:
http://www.odh.ohio.gov/landing/phs_emergency/swineflu.aspx
- 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 88 positive results by culture confirmation (total through 6/2/09). Results: (59) Influenza A, (29) Influenza B.
- Incidence of 2009 confirmed influenza-associated hospitalizations = 597 (total through 6/2/09).
- Five 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, one from Licking County with influenza A, and one from Brown County with influenza B (through 6/2/09).

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 traditional seasonal 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 Seasonal 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	32	13		91
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	59	47	2	198

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

Cumulative PCR Results for Seasonal Influenza Reported by ODH Lab by County*

County	# A/H1	# A/H3	# B	Total
Cuyahoga	3	1	1	5
Franklin	1	3	2	6
Gallia	1			1
Hamilton	2	1		3
Holmes		1		1
Licking	1			1
Lorain		1		1
Montgomery	2	3		5
Portage	1	1		2
Sandusky		1		1
Stark	1			1
Summit		1		1
Totals	12	13	3	28

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

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.