

Seasonal Influenza and Influenza-like Illness Surveillance

MMWR Week 24
June 14-20, 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 two regions.
- ODH lab reported 149 positive isolates confirmed through traditional seasonal influenza testing methods (total through 6/23/09). 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. Positive results: (12) influenza A/(H1), (14) influenza A/(H3), (7) influenza B (total through 6/23/09).
- Results obtained from novel influenza A H1N1 testing conducted at the ODH laboratory are now included in the chart below. For more complete information on all confirmed and probable cases, please see the ODH website for more details and a daily updated map of cases: 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 6/23/09). Results: (59) Influenza A, (29) Influenza B.
- Incidence of 2009 confirmed influenza-associated hospitalizations = 598 (total through 6/23/09).
- 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 6/23/09).

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 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.

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.

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

County	# Culture A/(H1N1)	# Culture B/Malaysia-like	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Novel A/(H1)	# Culture No Virus Isolated/Recovered	# PCR Not Detected	# Test not Performed	Total
Adams								3		3
Allen						1		6		7
Ashtabula								4		4
Athens	2	1				1	1	5		10
Butler								1		1
Clark	1		1			5		10		17
Clermont								2	3	5
Columbiana								3		3
Crawford								1		1
Cuyahoga	3	1	3	1	1	23	3	36	2	73
Defiance							1			1
Delaware								7	2	9
Fairfield						1		1	2	4
Franklin	46	32	1	3	6	15	13	94	8	218
Fulton						2		5		7
Gallia			1					4		5
Greene	7	3					3		1	14
Hamilton	4	6	2	1		4	8	17	9	51
Hancock								2		2
Henry							1			1
Holmes		2		1		1		2		6
Huron						1		5		6
Jefferson								2		2
Knox	4					1		7	1	13
Lake								1		1

County	# Culture A/(H1N1)	# Culture B/Malaysia-like	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Novel A/(H1)	# Culture No Virus Isolated/Recovered	# PCR Not Detected	# Test not Performed	Total
Lawrence								1		1
Licking							2	5		7
Logan									1	1
Lorain	2	1		1		1	5	13		23
Lucas				1		2	2	18		23
Mahoning						3				3
Marion								3		3
Medina								1		1
Mercer								1		1
Montgomery	4	4	2	3		4	6	15	23	61
Muskingum								2		2
Pickaway								2		2
Pike								2		2
Portage			1	1		1		11		14
Putnam								1		1
Richland							1	2		3
Ross								3		3
Sandusky				1					1	2
Scioto								4	3	7
Seneca								9		9
Shelby								1		1
Stark	14	6	1			2	1	5		29
Summit	3	3		1		3		6		16
Trumbull								1		1
Tuscarawas								1		1
Union								3		3
Van Wert								1		1

County	# Culture A/(H1N1)	# Culture B/Malaysia-like	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Novel A/(H1)	# Culture No Virus Isolated/Recovered	# PCR Not Detected	# Test not Performed	Total
Warren						1				1
Washington								1		1
Wayne								3		3
Williams								4		4
Out of State						2				2
										0
Season Totals	90	59	12	14	7	74	47	337	56	696

*Please note: The above results may not match official H1N1 results posted to the ODH website for the following reasons:

- Lab data is based on county of provider that submitted specimen.
- Data is from tests conducted at the ODH lab (commercial lab results are not included).
- All cases with a 'Not A Case' status do not have lab results associated with them.