

**Ohio Seasonal Influenza and Influenza-like Illness Surveillance
2009-2010 Season, beginning August 30, 2009**

MMWR Week 5
January 31-February 6, 2010

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.

Summary: Public health surveillance data sources indicate a stabilization of confirmed influenza-associated hospitalizations and a slight increase in levels of influenza-like illness in outpatient settings reported by Ohio's sentinel providers. The percentage of emergency department visits with patients exhibiting constitutional symptoms, as well as over-the-counter drug sales (particularly thermometer sales) remain at or slightly below baseline levels statewide. The Ohio Department of Health Laboratory continues to detect pandemic influenza A H1N1 infection sporadically among specimens submitted for testing, with seasonal influenza A strains detected among only two specimens since the beginning of the season.

State Surveillance Data:

- Influenza-like Illness (ILI): Sentinel Providers reported 0.80% 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 seven regions.
- Emergency department visits experienced a statistically significant deviation from the expected in six regions.
- ODH lab reported results for those cases that are PCR positive for seasonal influenza. Positive results: (1) influenza A/H1, (1) influenza A/H3 (total through 2/8/10).
- Ten confirmed influenza-associated pediatric mortality reports have been reported in the 2009-2010 season: one from Athens County, three from Cuyahoga County, one from Fayette County, two from Franklin County, one from Henry County, one from Summit County, and one from Warren County. Seven of these mortalities had confirmed pandemic (H1N1) 2009 infection (through 2/9/10).
- Incidence of confirmed influenza-associated hospitalizations in 2009-2010 season: 3209, of which 1476 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza (as of 2/10/10).
- Incidence of confirmed influenza-associated hospitalizations since beginning of reporting requirements (1/1/2009): 3787, of which 1545 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza. See Pandemic (H1N1) 2009-related hospitalizations graph (as of 2/10/10).
- Year-to-date confirmed Pandemic (H1N1) 2009 Influenza-related deaths among hospitalized patients: 51
- Cumulative influenza and pneumonia (P & I) deaths reported via the Electronic Death Registration System (EDRS): 3199, of which 106 are presumed to be influenza.

National Surveillance Data:

- During week 4 (January 24-30, 2010), influenza activity remained at approximately the same levels as last week in the U.S.
- Nationwide during week 4, 1.9% of patient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) were due to influenza-like illness (ILI). This percentage is below the national baseline of 2.3%. All regions reported ILI below their region-specific baseline. Ohio is in Region 5 (IL, IN, MI, MN, OH, WI).
- During week 4, 8.1% of all deaths reported through the 122-Cities Mortality Reporting System were due to pneumonia and influenza (P & I). This percentage was above the epidemic threshold of 7.8% for week 4, and is the third consecutive week that the percentage of P & I deaths has been above the epidemic threshold.

Analysis Considerations:

- 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.

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.

2009-10 Season Cumulative Influenza Results reported by ODH Lab by County*

County	# Culture Seasonal A/(H1)	# Culture B	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Pandemic A/(H1)	# PCR Pandemic A/(H1) Inconclusive	# PCR Not Detected	# Test not Performed	Total
Allen						24		44	1	69
Ashland						2		5		7
Ashtabula						5		2		7
Athens						7		3		10
Auglaize						15		12	1	28
Belmont								1		1
Brown						3				3
Butler						3		18	9	30
Champaign								3	1	4
Clark						49	3	299	10	361
Clermont								13	3	16
Clinton						1				1
Columbiana						30	5	77	9	121
Coshocton						1				1
Crawford						12		11	2	25
Cuyahoga						297	6	146	50	499
Darke								3		3
Defiance						1		3	3	7
Delaware				1		11		27	4	43
Erie						12		7		19
Fairfield						7		7		14
Fayette								1		1
Franklin						141		272	3	416
Fulton						6		3		9
Gallia						4		1		5
Greene						6	1	5	1	13

County	# Culture Seasonal A/(H1)	# Culture B	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Pandemic A/(H1)	# PCR Pandemic A/(H1) Inconclusive	# PCR Not Detected	# Test not Performed	Total
Guernsey						5		8		13
Hamilton						28		26	17	71
Hancock						2		9		11
Hardin								1		1
Henry						3		7		10
Highland						1				1
Hocking						61		5	1	67
Holmes						3	1	1		5
Huron						4		5		9
Jackson						1		2	1	4
Jefferson						17	1	25	1	44
Knox						2	1	4		6
Lake								1	1	2
Licking						8	1	12	3	24
Logan						2		3		5
Lorain						20		11	3	34
Lucas			1			103	4	92	30	230
Madison						1		1		2
Mahoning						55	1	187	13	256
Marion						7	1	18	6	31
Medina						6		2		8
Meigs						1		4		5
Mercer						1		2		3
Miami										
Montgomery						52		79	2	133
Muskingum						4	1	8		13
Ottawa								1		1
Pickaway						3		4		7

County	# Culture Seasonal A/(H1)	# Culture B	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Pandemic A/(H1)	# PCR Pandemic A/(H1) Inconclusive	# PCR Not Detected	# Test not Performed	Total
Portage						6		4	1	11
Putnam										
Richland						8	1	8	3	20
Ross						17		49	3	69
Sandusky						8		6	2	16
Scioto						5				5
Seneca						2				2
Shelby							1	5	2	8
Stark						44		25	6	75
Summit						35	1	142		178
Trumbull						7		1		8
Tuscarawas						4		5		9
Union						6		4	1	11
Van Wert								2		2
Vinton						1			1	2
Washington						12		3		15
Wayne						1				1
Williams						3		10		13
Wood								1	1	2
Wyandot						1		1		2
Unknown						3		5	1	9
Season Totals			1	1		1191	29	1753	192	3167

*Please note:

- 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).

