

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

MMWR Week 9  
February 28-March 6, 2010

Media Talking Points

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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 slight increase in confirmed influenza-associated hospitalizations. 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, and over-the-counter drug sales (particularly thermometer sales) remain below baseline levels statewide.

State Surveillance Data:

- Influenza-like Illness (ILI): Sentinel Providers reported 0.35% 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 results for those cases that are PCR positive for seasonal influenza. Positive results: (1) influenza A/H1, (1) influenza A/H3 (total through 3/8/10).
- 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 3/9/10).
- Incidence of confirmed influenza-associated hospitalizations in 2009-2010 season: 3234, of which 1484 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza (as of 3/10/10).
- Incidence of confirmed influenza-associated hospitalizations since beginning of reporting requirements (1/1/2009): 3863, of which 1553 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza. See Pandemic (H1N1) 2009-related hospitalizations graph (as of 3/6/10).
- Confirmed Pandemic (H1N1) 2009 Influenza-related deaths among hospitalized patients since April 2009: 51
- Cumulative influenza and pneumonia (P & I) deaths reported via the Electronic Death Registration System (EDRS): 3829, of which 106 are presumed to be influenza.

#### National Surveillance Data:

- During week 8 (February 21-27, 2010), influenza activity remained at approximately the same levels as last week in the U.S.
- Nationwide during week 8, 1.7% 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%. Two of 10 regions (Regions 4 and 9) reported ILI above region-specific baseline levels. Ohio is in Region 5 (IL, IN, MI, MN, OH, WI).
- During week 8, 7.8% of all deaths reported through the 122-Cities Mortality Reporting System were due to pneumonia and influenza (P & I). This percentage was below the epidemic threshold of 7.9% for week 8.
- Composition of the 2010-11 influenza vaccine: WHO has recommended vaccine strains for the 2010-11 Northern Hemisphere trivalent influenza vaccine, and FDA has made the same recommendations for the U.S. influenza vaccine. Both agencies recommend that the vaccine contain A/California/7/2009-like (2009 H1N1), A/Perth/16/2009-like (H3N2), and B/Brisbane/60/2008-like (B/Victoria lineage) viruses. A seasonal influenza A (H1N1) component is not included in the 2010-11 formulation and the A (H3N2) component has been changed from the 2009-10 Northern Hemisphere vaccine formulation. This recommendation was based on surveillance data related to epidemiology and antigenic characteristics, serological responses to 2009-10 trivalent seasonal and 2009 H1N1 monovalent vaccines, and the availability of candidate strains and reagents.

#### 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](mailto: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		17	1	33
Belmont								1		1
Brown						3				3
Butler						3		18	9	30
Champaign								3	1	4
Clark						49	3	307	10	369
Clermont								13	3	16
Clinton						1				1
Columbiana						30	5	78	9	122
Coshocton						1				1
Crawford						12		11	2	25
Cuyahoga						297	6	147	50	500
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

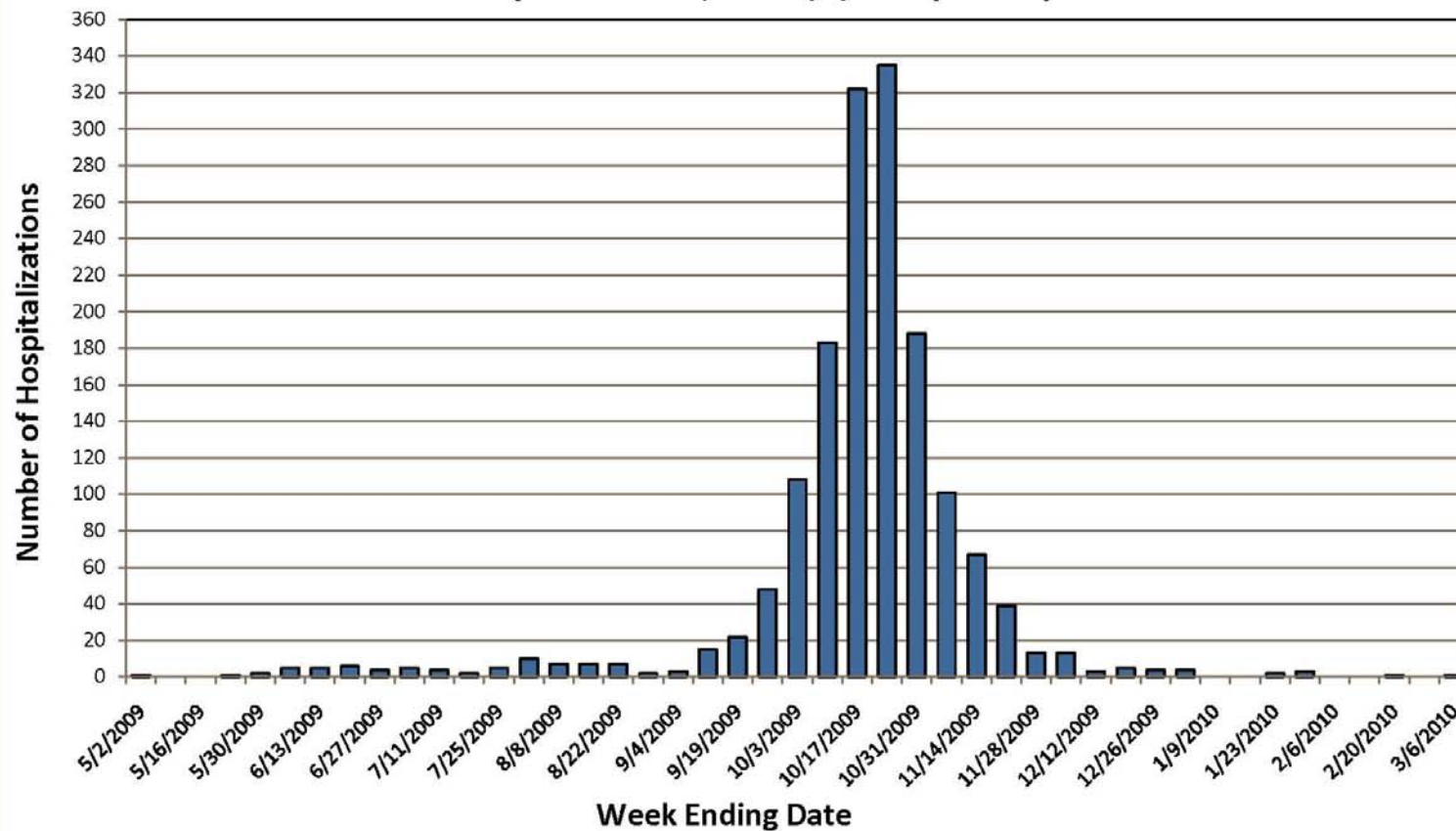
County	# Culture Seasonal A/(H1)	# Culture B	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Pandemic A/(H1)	# PCR Pandemic A/(H1) Inconclusive	# PCR Not Detected	# Test not Performed	Total
Guernsey						5		8		13
Hamilton						28		27	17	72
Hancock						2		9		11
Hardin								1		1
Henry						3		7		10
Highland						1				1
Hocking						61		5	1	67
Holmes						3	1	2		6
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	14	3	26
Logan						2		3		5
Lorain						20		14	5	39
Lucas			1			103	4	95	30	233
Madison						1		1		2
Mahoning						55	1	190	17	263
Marion						7	1	18	6	31
Medina						6		2		8
Meigs						1		5		6
Mercer						1		2		3
Miami										
Montgomery						52		82	2	136
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						45		27	8	80
Summit						35	1	145		181
Trumbull						7		2		9
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
<b>Season Totals</b>			<b>1</b>	<b>1</b>		<b>1191</b>	<b>29</b>	<b>1790</b>	<b>204</b>	<b>3216</b>

\*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).

Confirmed Pandemic (H1N1) 2009 Influenza-related Hospitalizations,  
by Event Date\*, as of 3/6/2010 (n=1553)



Data Source: Ohio Disease Reporting System, data pulled 3/10/10 at 4:00 pm  
\*Event date is the first date associated with the case, usually date of illness onset.