

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

MMWR Week 47
November 22-28, 2009

Media Talking Points

Activity Level: **Widespread Activity**

- Definition: Increased ILI in at least half of the regions AND recent (within the past 3 weeks) lab confirmed influenza in the state.

Summary: Public health surveillance data sources indicate continued elevated levels of confirmed influenza-associated hospitalizations and influenza-like illness from sentinel providers not typical for this time of year, although these levels are decreasing. The percentage of emergency department visits with patients exhibiting constitutional symptoms has decreased for the fifth consecutive week.

Surveillance Data:

- Influenza-like Illness (ILI) Sentinel Providers reported 1.86% 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 four 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 11/30/09).
- Results obtained from pandemic influenza A H1N1 testing conducted at the ODH laboratory are now included in the chart below (total through 11/30/09).
- Seven confirmed influenza-associated pediatric mortality reports have been reported in the 2009-2010 season: one from Athens County, three from Cuyahoga County, two from Franklin County, and one from Warren County. Three of these mortalities had confirmed pandemic (H1N1) 2009 infection (through 12/1/09).
- Incidence of confirmed influenza-associated hospitalizations in 2009-2010 season: 2860, of which 1317 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza (as of 11/30/09).
- Incidence of year-to-date confirmed influenza-associated hospitalizations: 3579, of which 1417 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza. See Pandemic (H1N1) 2009-related hospitalizations graph (as of 12/2/09).
- Year-to-date confirmed Pandemic (H1N1) 2009 Influenza-related deaths among hospitalized patients: 40
- Cumulative influenza and pneumonia (P & I) deaths reported via the Electronic Death Registration System (EDRS): 1565, of which 103 are presumed to be influenza.

National Surveillance Data:

- During week 46 (November 15-21, 2009), influenza activity continued to decrease in the U.S.
- Nationwide during week 46, 4.3% 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 above the national baseline of 2.3%. All 10 regions reported ILI above region-specific baseline levels.
- During week 46, 8.2% 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 7.0% for week 46. Including week 46, P & I mortality has been above threshold for eight consecutive weeks.

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 B	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Pandemic A/(H1)	# Culture No Virus Isolated/Recovered	# PCR Not Detected	# Test not Performed	Total
Allen					22		28	1	51
Ashland					2		3		5
Ashtabula					5		1		6
Athens					7		3		10
Auglaize					14		7		21
Belmont							1		1
Brown					3				3
Butler					2		2	9	13
Champaign							3	1	4
Clark					47		125	2	174
Clermont							8	3	11
Clinton					1				1
Columbiana					26		41	9	76
Coshocton					1				1
Crawford					12		11	2	25
Cuyahoga					294		99	48	441
Darke							3		3
Defiance					1		3	3	7
Delaware			1		10		8	4	23
Erie					8		4		12
Fairfield					7		5		12
Fayette							1		1
Franklin					133		270	2	405
Fulton					6		3		9
Gallia					4		1		5
Greene					6		5	1	12

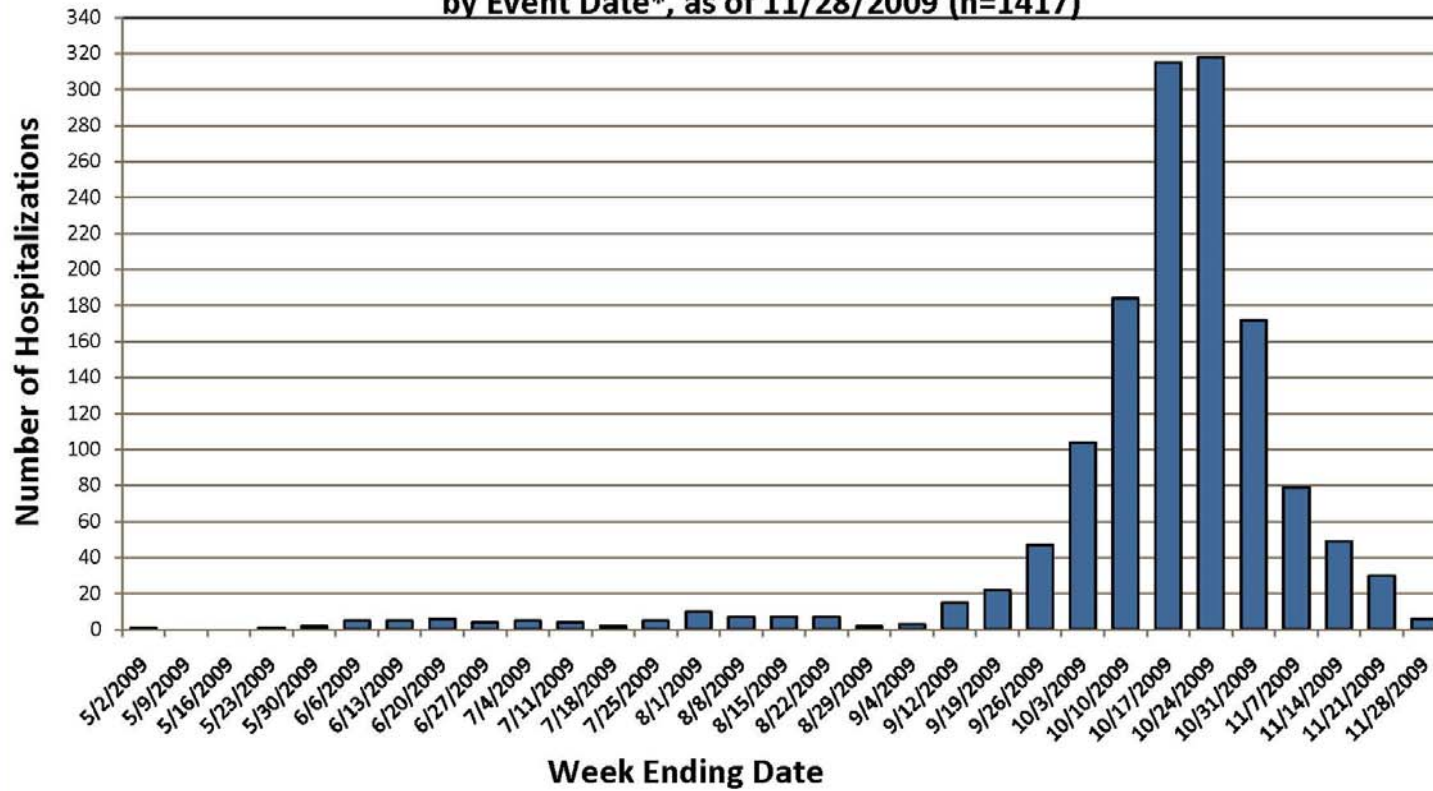
County	# Culture A/(H1N1)	# Culture B/Malaysia-like	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Pandemic A/(H1)	# Culture No Virus Isolated/Recovered	# PCR Not Detected	# Test not Performed	Total
Guernsey						4		1		5
Hamilton						28		9	17	54
Hancock								9		9
Henry						3		4		7
Highland						1				1
Hocking						60		5	1	66
Holmes								1		1
Huron						4		2		6
Jackson						1		2	1	4
Jefferson						14		15		29
Knox						1		2		3
Lake								1	1	2
Lawrence										
Licking						6		9	2	17
Logan						2		3		5
Lorain						19		5	1	25
Lucas			1			97		73	29	200
Madison						1		1		2
Mahoning						45		36	4	85
Marion						7		14		21
Medina						6		2		8
Meigs						1				1
Mercer						1		2		3
Miami										
Montgomery						50		60	2	112
Muskingum						4		1		5
Ottawa								1		1
Pickaway						3		1		4

County	# Culture A/(H1N1)	# Culture B/Malaysia-like	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Pandemic A/(H1)	# Culture No Virus Isolated/Recovered	# PCR Not Detected	# Test not Performed	Total
Portage						6		4	1	11
Putnam										
Richland						8		6	3	17
Ross						16		25	3	44
Sandusky						7		2	2	11
Scioto						5				5
Seneca						2				2
Shelby								5	2	7
Stark						42		16	6	64
Summit						33		87		120
Trumbull						7		1		8
Tuscarawas						4		4		8
Union						5		3	1	9
Van Wert								1		1
Vinton						1				1
Washington						12		2		14
Wayne						1				1
Williams						3		9		12
Wood								1		1
Wyandot						1		1		2
Unknown						3		3	1	7
Season Totals			1	1		1125		1065	158	2350

*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 11/28/2009 (n=1417)**



Data Source: Ohio Disease Reporting System, data pulled 12/2/09 at 5:30 pm
*Event date is the first date associated with the case, usually date of illness onset.