

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

MMWR Week 48
November 29-December 5, 2009

Media Talking Points

Activity Level: **Regional Activity**

- Definition: Increased ILI in ≥ 2 but less than half of the regions AND recent (within the past 3 weeks) lab confirmed influenza in the affected regions, OR institutional outbreaks (ILI or lab confirmed) in ≥ 2 but less than half of the regions AND recent (within the past 3 weeks) lab confirmed influenza in the affected regions.

Summary: Public health surveillance data sources indicate decreasing reports of confirmed influenza-associated hospitalizations and declining 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) have returned to baseline levels statewide.

State Surveillance Data:

- Influenza-like Illness (ILI): Sentinel Providers reported 1.27% 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 two 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 12/7/09).
- 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. Four of these mortalities had confirmed pandemic (H1N1) 2009 infection (through 12/8/09).
- Incidence of confirmed influenza-associated hospitalizations in 2009-2010 season: 3005, of which 1396 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza (as of 12/8/09).
- Incidence of year-to-date confirmed influenza-associated hospitalizations: 3667, of which 1480 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza. See Pandemic (H1N1) 2009-related hospitalizations graph (as of 12/9/09).
- Year-to-date confirmed Pandemic (H1N1) 2009 Influenza-related deaths among hospitalized patients: 43
- Cumulative influenza and pneumonia (P & I) deaths reported via the Electronic Death Registration System (EDRS): 1805, of which 88 are presumed to be influenza.

National Surveillance Data:

- During week 47 (November 22-28, 2009), influenza activity continued to decrease in the U.S.
- Nationwide during week 47, 3.7% 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 above the national baseline of 2.3%. Eight of the 10 regions reported ILI above region-specific baseline levels. Ohio is in Region 5 (IL, IN, MI, MN, OH, WI).
- During week 47, 7.2% 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 7.1% for week 47. Including week 47, P & I mortality has been above threshold for nine 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 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		36	1	61
Ashland						2		5		7
Ashtabula						5		2		7
Athens						7		3		10
Auglaize						14		11		25
Belmont								1		1
Brown						3				3
Butler						3		18	9	30
Champaign								3	1	4
Clark						49	2	199	7	257
Clermont								11	3	14
Clinton						1				1
Columbiana						29	5	67	9	110
Coshocton						1				1
Crawford						12		11	2	25
Cuyahoga						296	4	130	49	479
Darke								3		3
Defiance						1		3	3	7
Delaware				1		10		20	4	35
Erie						11		6		17
Fairfield						7		7		14
Fayette								1		1
Franklin						139		271	3	413
Fulton						6		3		9
Gallia						4		1		5
Greene						6	1	5	1	13

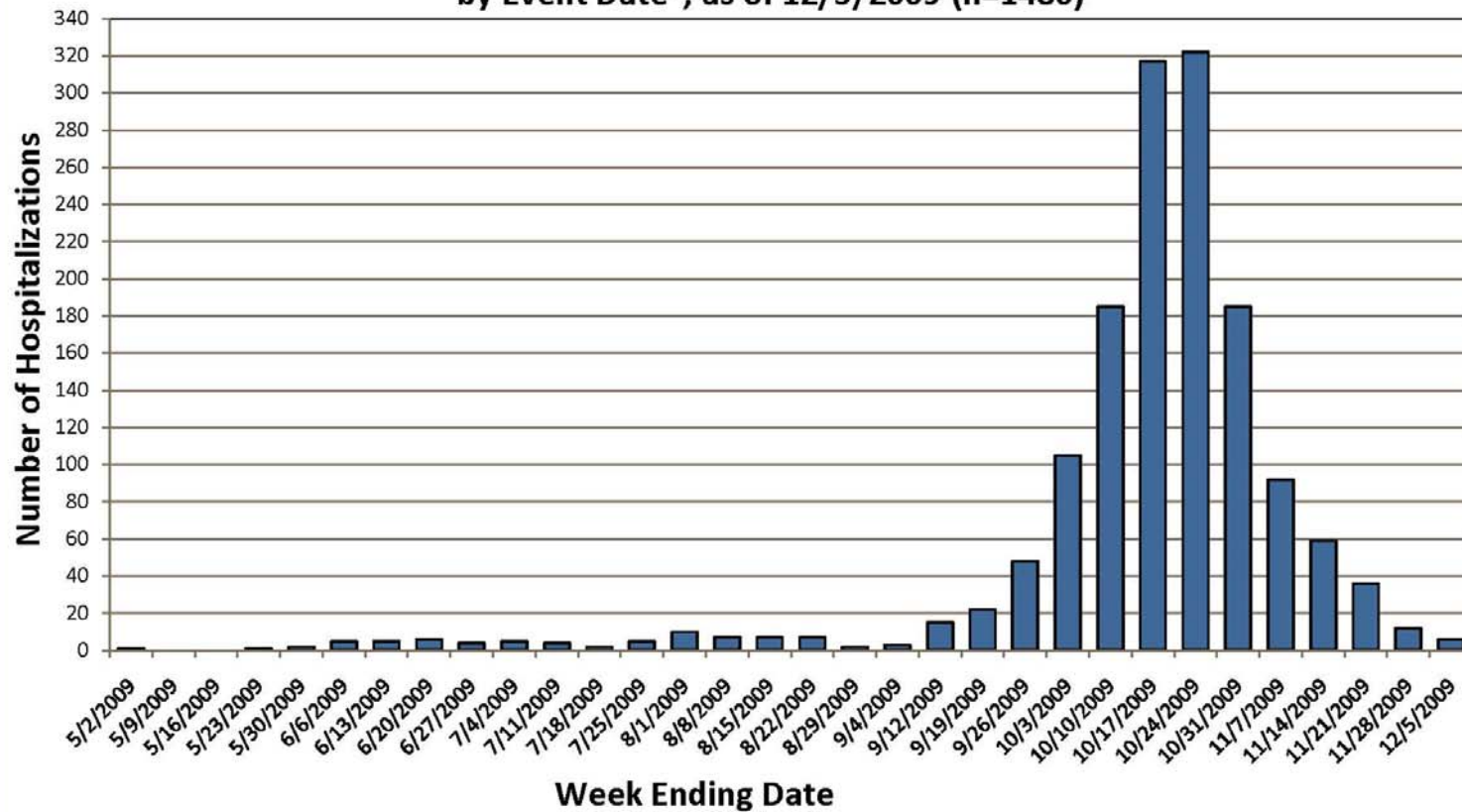
County	# Culture Seasonal A/(H1)	# Culture B	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Pandemic A/(H1)	# PCR Pandemic A/(H1) Inconclusive	# PCR Not Detected	# Test not Performed	Total
Guernsey						5		5		10
Hamilton						28		12	17	57
Hancock						2		9		11
Hardin								1		1
Henry						3		6		9
Highland						1				1
Hocking						60		5	1	66
Holmes						3		1		4
Huron						4		3		7
Jackson						1		2	1	4
Jefferson						17	1	22	1	41
Knox						2		4		6
Lake								1	1	2
Licking						8	1	12	3	24
Logan						2		3		5
Lorain						20		9	3	32
Lucas			1			103	4	86	30	224
Madison						1		1		2
Mahoning						55	1	136	11	203
Marion						7		18	6	31
Medina						6		2		8
Meigs						1		1		2
Mercer						1		2		3
Miami										
Montgomery						51		69	2	122
Muskingum						4	1	5		10
Ottawa								1		1
Pickaway						3		3		6

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		7	3	18
Ross						16		41	3	60
Sandusky						8		2	2	12
Scioto						5				5
Seneca						2				2
Shelby							1	5	2	8
Stark						43		20	6	69
Summit						35		120		155
Trumbull						7		1		8
Tuscarawas						4		4		8
Union						6		3	1	10
Van Wert								1		1
Vinton						1				1
Washington						12		2		14
Wayne						1				1
Williams						3		10		13
Wood								1	1	2
Wyandot						1		1		2
Unknown						3		4	1	8
Season Totals			1	1		1179	21	1463	184	2849

*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 12/5/2009 (n=1480)**



Data Source: Ohio Disease Reporting System, data pulled 12/9/09 at 12:35 pm
*Event date is the first date associated with the case, usually date of illness onset.