

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

MMWR Week 49
December 6-12, 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 0.88% 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 three 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 12/14/09).
- Eight 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, one from Henry County, and one from Warren County. Five of these mortalities had confirmed pandemic (H1N1) 2009 infection (through 12/15/09).
- Incidence of confirmed influenza-associated hospitalizations in 2009-2010 season: 3075, of which 1431 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza (as of 12/15/09).
- Incidence of year-to-date confirmed influenza-associated hospitalizations: 3720, of which 1508 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza. See Pandemic (H1N1) 2009-related hospitalizations graph (as of 12/16/09).
- Year-to-date confirmed Pandemic (H1N1) 2009 Influenza-related deaths among hospitalized patients: 46
- Cumulative influenza and pneumonia (P & I) deaths reported via the Electronic Death Registration System (EDRS): 1919, of which 73 are presumed to be influenza.

National Surveillance Data:

- During week 48 (November 29-December 5, 2009), influenza activity continued to decrease in the U.S.
- Nationwide during week 48, 2.7% 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%. Six of the 10 regions reported ILI above region-specific baseline levels. Regions 3, 6, 8 and 10 reported ILI below their region specific baselines. Ohio is in Region 5 (IL, IN, MI, MN, OH, WI).
- During week 48, 7.8% 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 48. Including week 48, P & I mortality has been above threshold for 10 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		38	1	63
Ashland						2		5		7
Ashtabula						5		2		7
Athens						7		3		10
Auglaize						14		12		26
Belmont								1		1
Brown						3				3
Butler						3		18	9	30
Champaign								3	1	4
Clark						49	3	221	8	281
Clermont								12	3	15
Clinton						1				1
Columbiana						30	5	70	9	114
Coshocton						1				1
Crawford						12		11	2	25
Cuyahoga						296	5	136	49	486
Darke								3		3
Defiance						1		3	3	7
Delaware				1		11		22	4	38
Erie						11		7		18
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

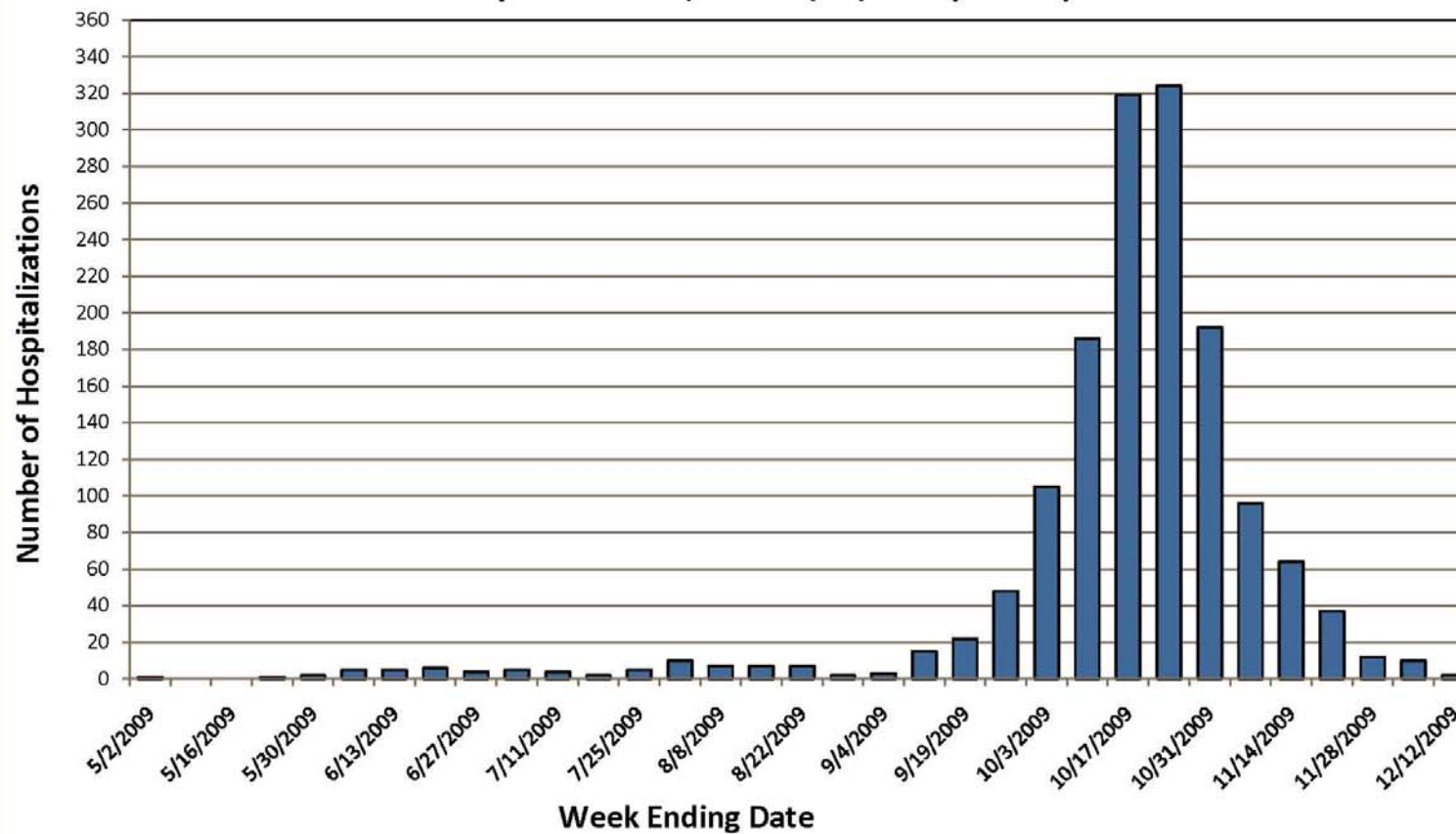
County	# Culture Seasonal A/(H1)	# Culture B	# PCR Seasonal A/(H1)	# PCR Seasonal A/(H3)	# PCR B	# PCR Pandemic A/(H1)	# PCR Pandemic A/(H1) Inconclusive	# PCR Not Detected	# Test not Performed	Total
Guernsey						5		6		11
Hamilton						28		14	17	59
Hancock						2		9		11
Hardin								1		1
Henry						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	23	1	42
Knox						2	1	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	88	30	226
Madison						1		1		2
Mahoning						55	1	158	11	225
Marion						7	1	18	6	31
Medina						6		2		8
Meigs						1		3		5
Mercer						1		2		3
Miami										
Montgomery						51		75	2	128
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	1	8	3	20
Ross						17		45	3	65
Sandusky						8		2	2	12
Scioto						5				5
Seneca						2				2
Shelby							1	5	2	8
Stark						44		24	6	74
Summit						35	1	128		164
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		5	1	9
Season Totals			1	1		1185	28	1558	185	2958

*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 12/12/2009 (n=1508)



Data Source: Ohio Disease Reporting System, data pulled 12/16/09 at 3:55 pm
*Event date is the first date associated with the case, usually date of illness onset.