

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

MMWR Week 52  
December 27, 2009-January 02, 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 continued 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.

**Incident Potential:** Ohio’s influenza activity level, an indicator of geographic spread, has been downgraded to “sporadic.” The number of people newly infected with influenza is decreasing, and surveillance data sources continue to indicate that the intensity of this activity is declining. The predominant strain in Ohio and nationally is the 2009 influenza A (H1N1) virus.

State Surveillance Data:

- Influenza-like Illness (ILI): Sentinel Providers reported 0.47% 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 six regions.
- Emergency department visits experienced a statistically significant deviation from the expected in five regions.
- ODH lab reported results for those cases that are PCR positive for seasonal influenza. Positive results: (0) influenza A/H1, (0) influenza A/H3 (total through 01/05/10).
- 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 12/30/09).

- Incidence of confirmed influenza-associated hospitalizations in 2009-2010 season: 3128, of which 1450 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza (as of 01/02/10).
- Incidence of confirmed influenza-associated hospitalizations since beginning of reporting requirements (1/1/2009): 3797, of which 1546 are laboratory confirmed as Pandemic (H1N1) 2009 Influenza. See Pandemic (H1N1) 2009-related hospitalizations graph (as of 01/02/10).
- Year-to-date confirmed Pandemic (H1N1) 2009 Influenza-related deaths among hospitalized patients: 50
- Cumulative influenza and pneumonia (P & I) deaths reported via the Electronic Death Registration System (EDRS): 2371, of which 93 are presumed to be influenza.

#### National Surveillance Data:

- During week 51 (December 20-26, 2009), influenza activity decreased slightly in the U.S.
- Nationwide during week 51, 3.2% 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%. Seven of the 10 regions reported ILI below region-specific baseline levels. Two of the 10 regions (1 and 10) reported ILI below region-specific baseline levels. Ohio is in Region 5 (IL, IN, MI, MN, OH, WI).
- During week 51, 7.7% of all deaths reported through the 122-Cities Mortality Reporting System were due to P & I. This percentage was above the epidemic threshold of 7.4% for week 51.

#### 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		40	1	65
Ashland						2		5		7
Ashtabula						5		2		7
Athens						7		3		10
Auglaize						14		12	1	27
Belmont								1		1
Brown						3				3
Butler						3		18	9	30
Champaign								3	1	4
Clark						49	3	240	9	301
Clermont								13	3	16
Clinton						1				1
Columbiana						30	5	74	9	118
Coshocton						1				1
Crawford						12		11	2	25
Cuyahoga						296	5	137	49	487
Darke								3		3
Defiance						1		3	3	7
Delaware				1		11		27	4	43
Erie						11		7		18
Fairfield						7		7		14
Fayette								1		1
Franklin						140		272	3	414
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		23	17	68
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	24	1	43
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	89	30	227
Madison						1		1		2
Mahoning						55	1	181	11	248
Marion						7	1	18	6	31
Medina						6		2		8
Meigs						1		3		5
Mercer						1		2		3
Miami										
Montgomery						51		76	2	129
Muskingum						4	1	5		10
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		46	3	66
Sandusky						8		4	2	14
Scioto						5				5
Seneca						2				2
Shelby							1	5	2	8
Stark						44		24	6	74
Summit						35	1	140		176
Trumbull						7		1		8
Tuscarawas						4		4		8
Union						6		3	1	10
Van Wert								2		2
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
<b>Season Totals</b>			<b>1</b>	<b>1</b>		<b>1185</b>	<b>28</b>	<b>1643</b>	<b>187</b>	<b>3045</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).