

2009-2010 Influenza Season

(August 30, 2009 – present)

Utah Public Health

Situation Report

01/06/10

Updated Wednesdays at: <http://health.utah.gov/epi/h1n1flu/>



Utah Summary:

Note: Data in the Utah Summary section of this report is from Sunday to Saturday (MMWR Week 52), December 27, 2009 to January 02, 2010.

Circulation:

- The indicator used by public health to measure the circulation of influenza in the community is influenza-like illness (ILI) as reported by sentinel clinics. (An ILI sentinel clinic is a clinic that reports to public health the percentage of patient visits seen for influenza-like illnesses).
- Influenza is currently circulating at a level that is typical for what is seen during regular flu seasons. ILI activity in Utah decreased from what was reported last week.
- For the past reporting week (MMWR Week 52), the ILI rate for Utah is 1.2% (down from 1.6% last week).
 - This week's value is slightly above the Utah ILI outbreak threshold of 1.1%.

Severity:

- The severity of an influenza outbreak (epidemic or pandemic) is measured by the number of influenza infections that result in hospitalization or death.
- Thus far for the 2009-2010 influenza season, the total number of influenza infections and hospitalizations associated with influenza have substantially exceeded the total expected for an entire influenza season.
- At this time there is no evidence that severity for the 2009 H1N1 Pandemic is changing, meaning that the ratio of infections resulting in hospitalization or death has been relatively constant since the beginning of the Pandemic.
- A total of **878** influenza-associated hospitalizations (IAHs) (due to both seasonal and 2009 pandemic (H1N1) strains) have been reported to public health this influenza season. This is **13** more than reported last week (last week's total IAHs was **865**). Of the **13** IAHs reported this week, **3** occurred within this last reporting week (12/27/09 to 01/02/10), and **10** occurred prior to that but were not reported to public health until this week. In some instances reporting lag times exist from the time the hospitalization occurs to when it is reported to public health.

2009 Pandemic A (H1N1) deaths:

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- The severity measure listed above is for influenza caused by all strains (regular seasonal flu and the 2009 Pandemic A (H1N1)). In addition, Utah is collecting data on patient deaths (whether hospitalized or not) known to have been related to the 2009 Pandemic A (H1N1) strain.
- A total of **26** deaths related to 2009 Pandemic A (H1N1) have been reported to public health this influenza season. No new deaths were reported to public health within the last reporting week.

Circulating strains:

Laboratory data reported from 12/27/09 to 01/02/10 shows that 18 total specimens were tested for influenza at the Utah Public Health Laboratory (UPHL). Only one of the 18 specimens was positive for influenza, and it tested positive for 2009 Pandemic Influenza A (H1N1).

- Influenza A:
 - 100% 2009 Pandemic Influenza A (H1N1)
 - 0% seasonal A (H1)
 - 0% seasonal A (H3)
- 0% Influenza B

National/International Surveillance Summary

Note: Data in the National/International Surveillance Summary section of this report is from Sunday to Saturday (MMWR Week 51), December 20, 2009 to December 26, 2009.

- National ILI levels are above the national baseline levels for what is expected during this time of year.
- During the past week, widespread influenza activity was reported in 4 states, with regional influenza activity being reported in 13 states (see map).
- Nationally, the proportion of deaths attributed to pneumonia and influenza (P&I) during the past week was 7.7%, which is above the epidemic threshold for this time of year (7.4%).

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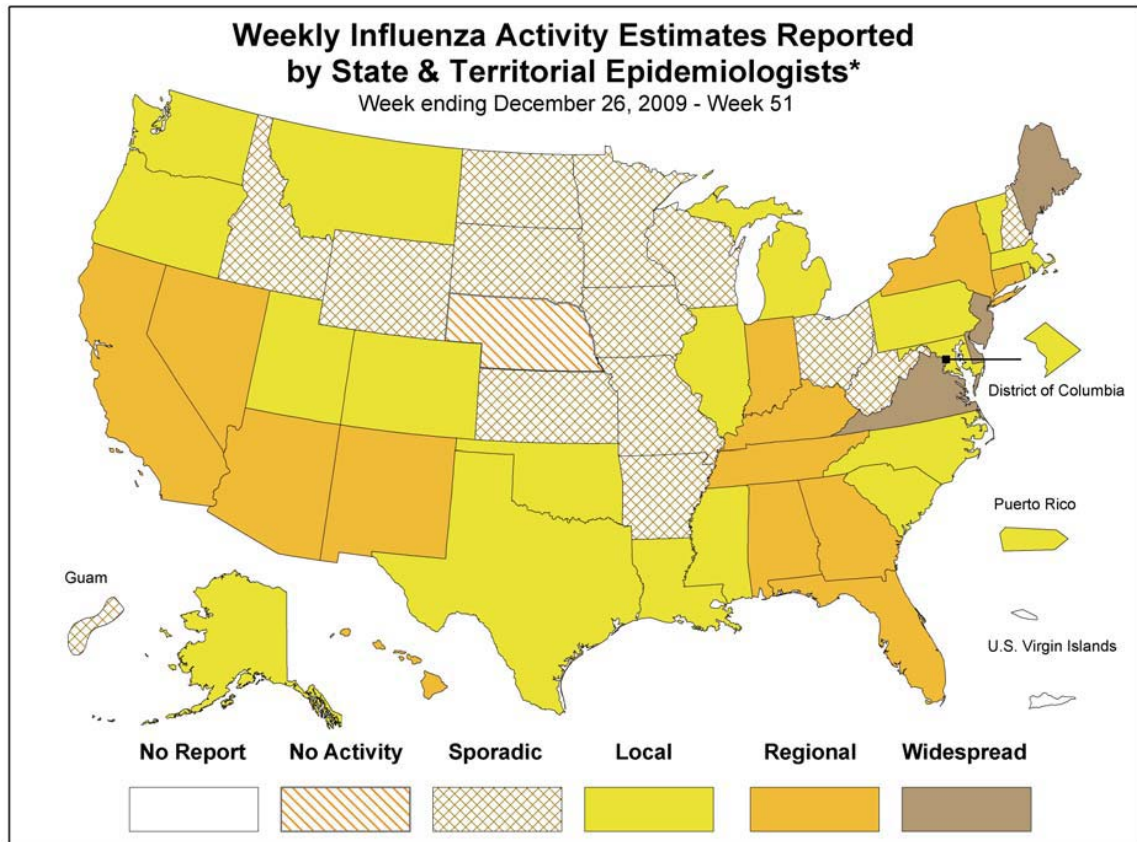
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* This map indicates geographic spread & does not measure the severity of influenza activity

Viral circulation and resistance:

Data in this section comes from the CDC and is collected nationally:

- 100% of all influenza isolates typed at national reference labs this week were Influenza A:
 - 100% of subtyped isolates were 2009 Pandemic A (H1N1)
 - 0.0% were seasonal A (H1)
 - 0.0% were seasonal A (H3)
 - 0.0% of isolates were unable to be subtyped
- 0.0% were Influenza B
- Influenza viruses currently circulating in the U.S. are 2009 Pandemic Influenza A (H1N1) viruses.

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This antiviral susceptibility profile is compiled by CDC and represents strains identified since September 1, 2009. The results of antiviral resistance testing performed are summarized in the table below.

	Samples tested	% resistant to Oseltamivir	Samples tested	% resistant to Zanamivir	Samples tested	% resistant to Adamantanes
2009 Pandemic A (H1N1)	2,384	1.4%	631	0%	620	99.8%
Seasonal A (H1N1)	1	100%	0	0	1	0
Seasonal A (H3N2)	8	0	0	0	6	83.3%
Influenza B	1	0	0	0	NA	NA

2009 Pandemic Influenza A (H1N1) Vaccine Information:

- Utah will receive a total of 161,500 doses of the 2009 Pandemic A H1N1 vaccine in this weeks order. That will make a total of 1,146,800 doses of the 2009 Pandemic A H1N1 vaccine received so far this season for Utah.
- To date providers reported having administered 516,594 doses of H1N1 vaccine, as of Saturday, January 2, 2010.
- CDC has developed a new fact sheet on the *Safety of Thimerosal in Vaccines Against 2009 H1N1 Flu*. To access the document visit http://www.cdc.gov/h1n1flu/vaccination/vaccine_factsheet.htm

Guidance:

New/Updated CDC guidance available at: www.cdc.gov/h1n1flu/whatsnew.htm

- New: Flu information for people with diabetes and caregivers of people with diabetes. Posted Wednesday, January 06, 2010.

Hospital Data:

- Utah hospitals continue to report an increase in available, staffed hospital beds.
- Ventilator availability continues to increase steadily.
- Hospitals have reported patients utilizing rescue therapies such as ventilators, are all not related to the 2009 Pandemic A (H1N1) strain.

In the News:

- Many stories continue to run in local and statewide newspapers and television stations regarding the H1N1 flu and vaccine. No major rumors or incorrect

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information has been detected this week in local and statewide newspapers and television outlets.