

2009-2010 Influenza Season

(August 30, 2009 – present)

Utah Public Health

Situation Report

1/27/2010

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 03), January 17, 2010 to January 23, 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 increased from what was reported last week.
- For the past reporting week (MMWR Week 03), the ILI rate for Utah is 1.4% (up from 1.0% last week).
 - This week's value is 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 **887** influenza-associated hospitalizations (IAHs) (due to both seasonal and 2009 pandemic (H1N1) strains) have been reported to public health this influenza season. This is **4** more than reported last week (last week's total IAHs was **883**). Of the **4** IAHs reported this week, **1** occurred within this last reporting week (01/17/10 to 01/23/10), and **3** occurred prior to that but was 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.

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2009 Pandemic A (H1N1) deaths:

- 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 **27** 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 01/17/10 to 01/23/10 shows that 12 total specimens were tested for influenza at the Utah Public Health Laboratory (UPHL). None of the 12 specimens were positive for influenza.

National/International Surveillance Summary

Note: Data in the National/International Surveillance Summary section of this report is from Sunday to Saturday (MMWR Week 02), January 10, 2010 to January 16, 2010.

- National ILI levels are below the national baseline levels for what is expected during this time of year.
- During the past week, widespread influenza activity was reported in 0 states, with regional influenza activity being report in 7 states (see map on next page).
- Nationally, the proportion of deaths attributed to pneumonia and influenza (P&I) during the past week was 8.0%, which is slightly above the epidemic threshold for this time of year (7.6%).

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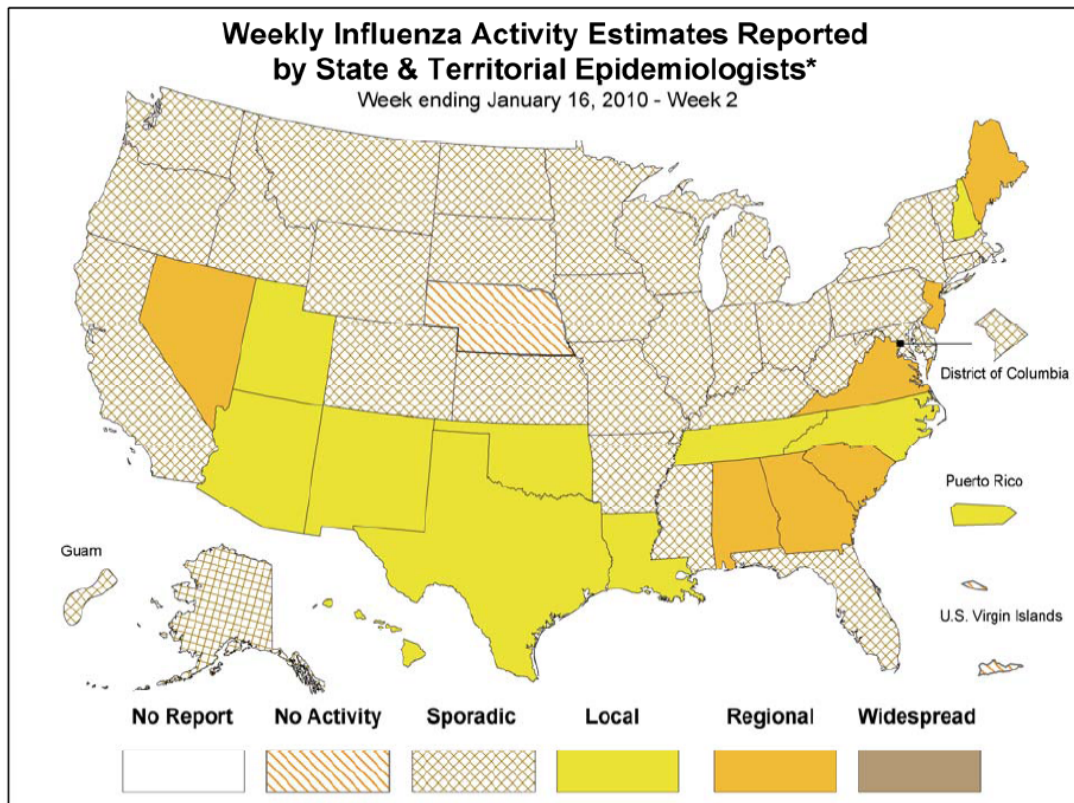
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* This map indicates geographic spread & does not measure the severity of influenza activity

Viral circulation and resistance:

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

- 96.7% of all influenza isolates typed at national reference labs this week were Influenza A:
 - 97.0% of subtyped isolates were 2009 Pandemic A (H1N1)
 - 0% were seasonal A (H1)
 - 1.5% were seasonal A (H3)
 - 1.5% of isolates were unable to be subtyped
- 3.3% were Influenza B
- The majority of influenza viruses currently circulating in the U.S. are 2009 Pandemic Influenza A (H1N1)

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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)	2,974	1.4%	831	0%	878	99.7%
Seasonal A (H1N1)	1	100%	0	0	1	0
Seasonal A (H3N2)	8	0	0	0	11	81.8%
Influenza B	1	0	0	0	NA	NA

2009 Pandemic Influenza A (H1N1) Vaccine Information:

- Utah currently has available 343,400 doses of 2009 Pandemic Influenza A (H1N1) vaccine. To date this influenza season, Utah has received a total of 1,257,900 doses of the 2009 Pandemic A H1N1 vaccine.

Guidance:

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

- No new 2009 Pandemic Influenza A (H1N1) guidance was issued during the past week by the CDC.
- The most recent (updated 12/29/09) Utah Clinician Guidance for 2009 Pandemic Influenza A (H1N1) is available at: <http://health.utah.gov/epi/h1n1flu/groups/clinician.html>

Hospital Data:

- Utah hospitals continue to report an increase in available, staffed hospital beds.
- Hospitals are seeing a slight increase in the number of patients utilizing rescue therapies, such as ventilators (this includes all patients requiring rescue therapies, not just influenza patients).

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