

2009-2010 Influenza Season

(August 30, 2009 – present)

Utah Public Health

Situation Report

12/30/09

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



Utah Summary:

Notes:

- Due to the holidays, reporting to public health is decreased. This may result in skewed values for ILI and other indicators in this weeks' report.
- Data in the Utah Summary section of this report is from Sunday to Saturday (MMWR Week 51), December 20, 2009 to December 26, 2009.

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 51), the ILI rate for Utah is 2.2% (up from 1.1% last week).
 - This 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 **865** 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 **861**). Of the **4** IAHs reported this week, **0** occurred within this last reporting week (12/20/09 to 12/26/09), and **4** 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.

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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 **26** deaths related to 2009 Pandemic A (H1N1) have been reported to public health this influenza season. This is one more than reported last week. The death reported this week occurred within the last reporting week (12/20/09 to 12/26/09). For more information regarding deaths, please refer to the Local Health Department.
- Deaths not previously reported:
 - 1 in the Salt Lake Valley Health Department Jurisdiction
 - 1 female, age 65+ (died within this last reporting week)

Circulating strains:

Due to technical difficulties there was no laboratory data reported to the Utah Department of Health from 12/20/09 to 12/26/09.

National/International Surveillance Summary

Note: Data in the National/International Surveillance Summary section of this report is from Sunday to Saturday (MMWR Week 50), December 13, 2009 to December 19, 2009.

- National ILI levels are at the national baseline levels for what is expected during this time of year.
- During the past week, widespread influenza activity was reported in 7 states, with regional influenza activity being report in 18 states (see map).
- Nationally, the proportion of deaths attributed to pneumonia and influenza (P&I) during the past week was 7.2%, which is below the epidemic threshold for this time of year (7.3%).

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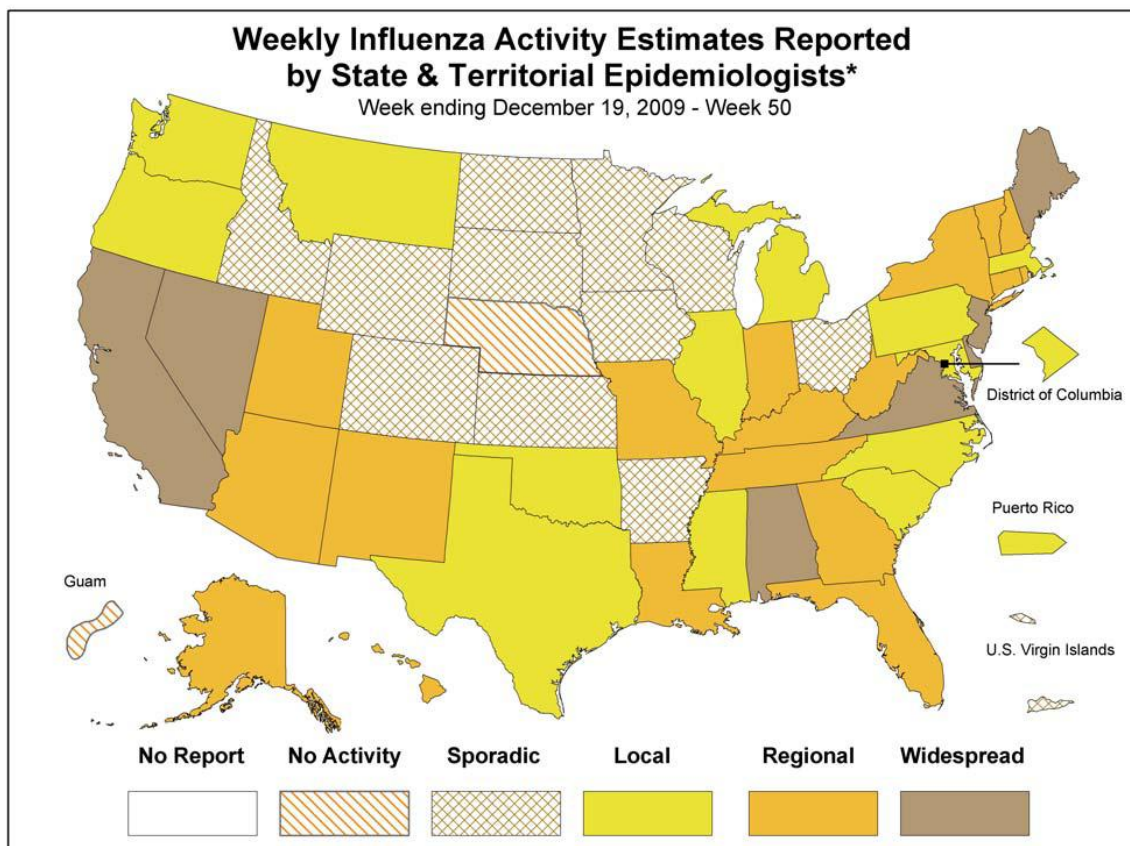
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* This map indicates geographic spread & does not measure the severity of influenza activity

Viral circulation and resistance:

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

- 99.0% of all influenza isolates typed at national reference labs this week were Influenza A:
 - 98.3% of subtyped isolates were 2009 Pandemic A (H1N1)
 - 0.0% were seasonal A (H1)
 - 0.0% were seasonal A (H3)
 - 1.7% of isolates were unable to be subtyped
- 1.0% were Influenza B
- The majority of 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:

- Due to the holidays, administered doses information is not available at this time. Accurate data will be provided next week.
- CDC has commenced national distribution to large-chain corporate organizations (i.e. Walgreens, Target & Mollen Immunizations).
- This week vaccine allocation will arrive at several Utah chain-pharmacies.
- On December 22, 2009 MedImmune announced that it is voluntarily recalling unused doses of 13 specific lots of Influenza A (H1N1) 2009 Monovalent Vaccine Live, Intranasal due to a slight decrease in potency. There is no safety concern with the lots that are being recalled. The slight decrease in vaccine potency is expected to have little, if any, impact on the response to vaccination. Revaccination is not recommended because the vaccine in the affected lots is still expected to be effective in stimulating a protective immune response. These doses were well within potency specifications at the time they were distributed, and in fact, some of the doses being recalled are actually still within required potency limits. In exercising the most conservative approach, MedImmune is recommending that all lots marked with an expiration date of between **January 19 and January 26, 2010** not be used. The manufacturer will send providers directions for returning any unused vaccine from these lots. Utah received approximately 49,000 doses of this vaccine during the first two weeks of shipping. For more information, visit http://www.cdc.gov/h1n1flu/vaccination/sprayrecall_qa.htm.

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Guidance:

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

- Updated: Antiviral Drugs for the 2009-2010 Influenza Season podcast. Posted Monday, December 28, 2009. This is a CDC podcast that discusses the use of antiviral drugs for the treatment and prevention of influenza, including 2009 H1N1 during the 2009-2010 influenza season.
- The Utah Department of Health (UDOH) updated their 2009 Pandemic Influenza A (H1N1) Clinician Guidance with new information regarding the clinical management and treatment of severely immunosuppressed patients with suspected or confirmed 2009 Pandemic Influenza A (H1N1). The UDOH Clinician guidance is at: <http://health.utah.gov/epi/h1n1flu/groups/clinician.html>.

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