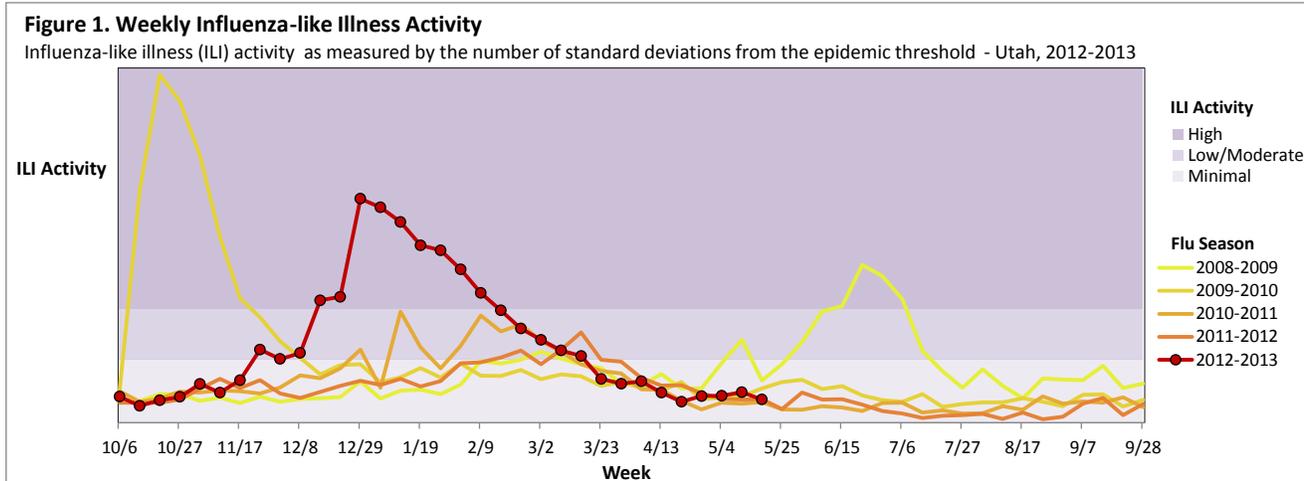


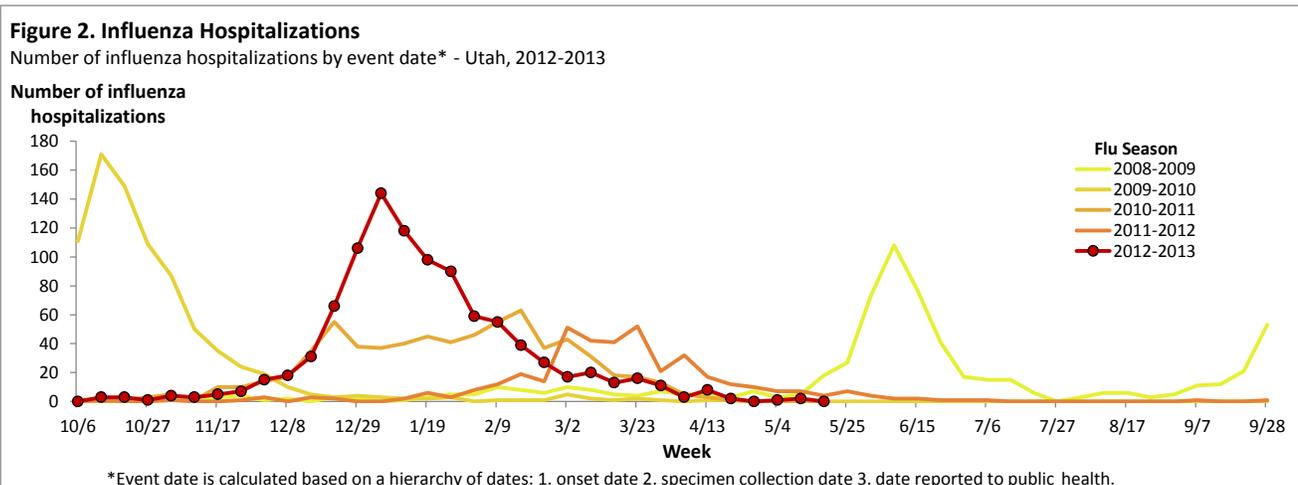
# Utah 2012-2013 Influenza Season Summary

Overview of Influenza Surveillance: While influenza activity is monitored year-round, active surveillance for the 2012-2013 influenza season ran from September 30, 2012 - May 18, 2013. The Utah Department of Health publishes a weekly report throughout the active influenza season that synthesizes data from a variety of sources to give the most complete and up-to-date picture of influenza activity in the state of Utah.

**Influenza-like Illness (ILI):** The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) is a national system that conducts surveillance for influenza-like illness (ILI) in outpatient healthcare facilities. ILINet providers report weekly the total number of patients seen for any reason and the number of patients seen with ILI (defined as a fever  $\geq 100^{\circ}$  F and a cough or sore throat). These data are used to determine the amount of ILI circulating in the community, as well as provide insight into regional differences in ILI activity. Currently, more than 50 facilities throughout Utah participate in ILINet.



**Influenza Hospitalizations:** Influenza hospitalizations are a reportable condition in Utah. A person meets the case definition for an influenza hospitalization if they are hospitalized for any length of time and have an influenza positive serology, DFA, PCR, or culture test (confirmed case) or a positive rapid influenza diagnostic test (probable case). Public health in Utah gathers a variety of data on influenza hospitalizations including clinical features, course of illness, risk and protective factors, and influenza type and subtype. Data from influenza hospitalizations allows public health in Utah to better understand subgroups of the Utah population that are most severely affected by influenza and help to guide prevention messages and interventions.



# Utah 2012-2013 Influenza Season Summary

**Table 1. Influenza Hospitalizations by Week - Utah, 2012-2013 Season**

<b>Week</b>	<b>Total Cases</b>
10/6	0
10/13	3
10/20	3
10/27	1
11/3	4
11/10	3
11/17	5
11/24	7
12/1	15
12/8	18
12/15	31
12/22	66
12/29	106
1/5	144
1/12	118
1/19	98
1/26	90
2/2	59
2/9	55
2/16	39
2/23	27
3/2	17
3/9	20
3/16	13
3/23	16
3/30	11
4/6	3
4/13	8
4/20	2
4/27	0
5/4	1
5/11	2
5/18	0

**Table 2. Influenza Hospitalizations by Health District - Utah, 2012-2013 Season**

<b>Health District</b>	<b>Total Cases</b>	<b>Rate*</b>
Bear River	51	30.36
Central	42	55.36
Davis	74	23.43
Salt Lake	443	41.64
Southeastern	4	7.08
Southwest	106	50.37
Summit	14	36.84
Tooele	6	10.02
TriCounty	17	30.98
Utah	148	27.38
Wasatch	4	15.82
Weber-Morgan	76	30.84
<b>State</b>	<b>985</b>	<b>34.49</b>

\*Rate is calculated as the number of cases per 100,000 population

# Utah 2012-2013 Influenza Season Summary

**Table 3. Influenza Hospitalizations by Age Group - Utah, 2012-2013 Season**

Age Group	Total Cases	% of Cases	Rate*
0-4	193	19.6	71.32
5-24	141	14.3	14.90
25-49	124	12.6	12.50
50-64	131	13.3	32.71
65+	396	40.2	160.33
<b>Total</b>	<b>985</b>	<b>100.0</b>	<b>34.49</b>

\*Rate is calculated as the number of cases per 100,000 population

**Table 4. Influenza Hospitalizations by Sex and Race - Utah, 2012-2013 Season**

Variable	Total Cases	% of Cases	Rate*
Sex			
Male	486	49.3	33.83
Female	499	50.7	35.15
Race			
White, Not Hispanic	772	78.4	35.16
Hispanic	135	13.7	46.75
Native Hawaiian/Pacific Islander	35	3.6	172.53
Black/African American	17	1.7	52.09
American Indian	4	0.4	10.81
Asian	22	2.2	42.75

\*Rate is calculated as the number of cases per 100,000 population

**Table 5. Summary Data for Influenza Hospitalizations - Utah, 2012-2013 Season**

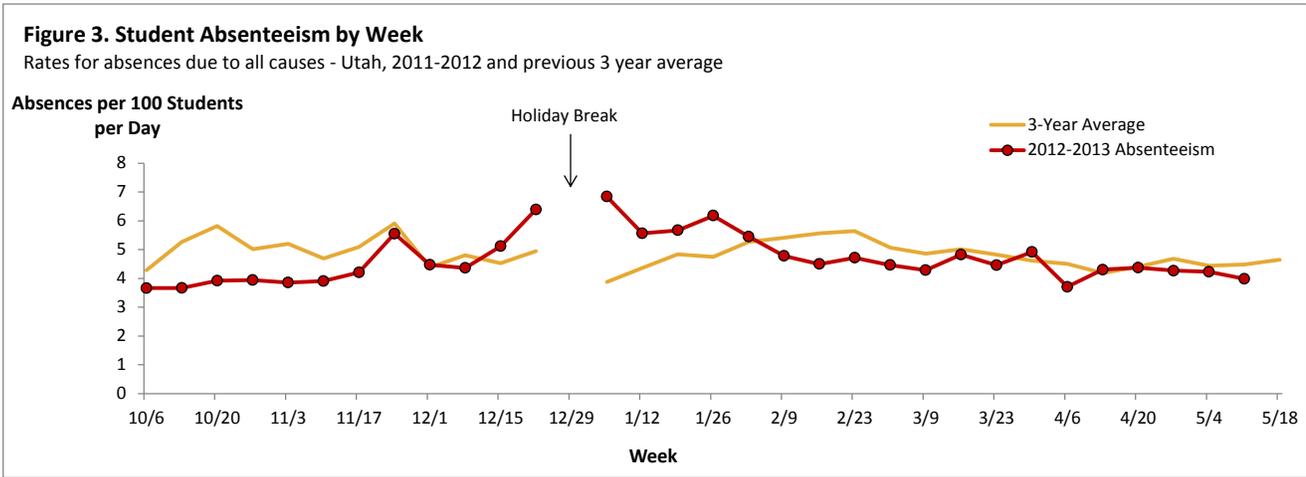
Variable	Yes		No		Unknown	
	Total	% of Cases	Total	% of Cases	Total	% of Cases
ICU	163	16.5	799	81.1	23	2.3
Ventilator	59	6.0	905	91.9	21	2.1
Died	34	3.5	938	95.2	13	1.3
Neurological Symptoms	117	11.9	827	84.0	41	4.2
Healthcare Worker	7	0.7	620	62.9	358	36.3
Pregnant	32	3.2	946	96.0	7	0.7
Heart Disorder	310	31.5	641	65.1	34	3.5
Blood Disorder	27	2.7	921	93.5	37	3.8
Kidney Disorder	88	8.9	861	87.4	36	3.7
Metabolic Disorder	256	26.0	693	70.4	36	3.7
Chronic Respiratory Disorder	296	30.1	658	66.8	31	3.1
Immunosuppressed	96	9.7	848	86.1	41	4.2
Neurological Disorder	117	11.9	827	84.0	41	4.2
Seizure Disorder	36	3.7	915	92.9	34	3.5
Bacterial Co-infection	20	2.0	927	94.1	38	3.9
Obese*	201	31.0	330	50.8	118	18.2
Morbidly Obese*	43	6.6	488	75.2	118	18.2
Risk Factor†	891	90.5	94	9.5	0	0.0
Vaccinated	368	37.4	457	46.4	160	16.2

\*Obesity and morbid obesity is not considered for individuals under 18 years or pregnant women. Thus total counts will not equal the total number of influenza-associated hospitalizations

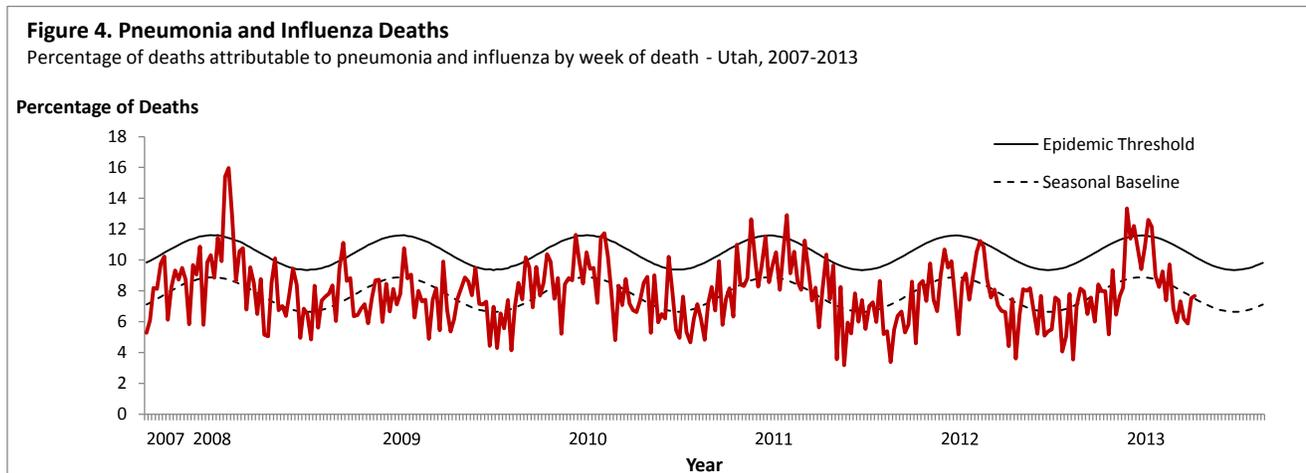
†Risk factors for influenza include: persons < 5 years, persons ≥ 65 years, pregnant women, and persons with a chronic medical condition.

# Utah 2012-2013 Influenza Season Summary

**Student Absenteeism:** School-age children are at high risk for respiratory virus infections, including influenza. Aggregate, all-cause absenteeism data is collected weekly from over 350 schools throughout Utah. These data are analyzed to identify elevated absenteeism rates that could indicate the circulation of influenza in school-age children.

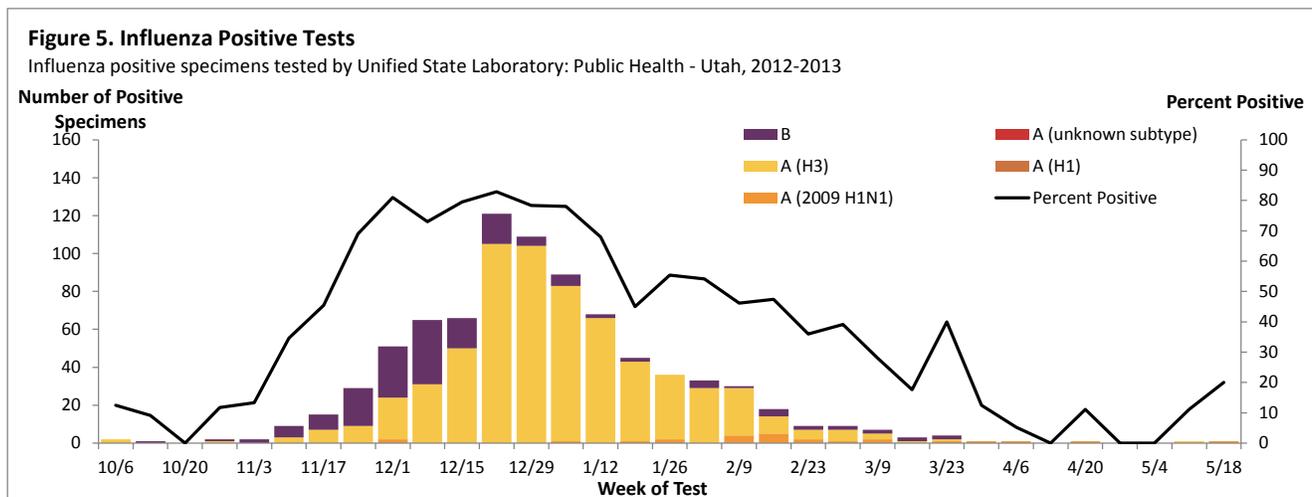


**Pneumonia and Influenza Deaths:** Each week the total number of death certificates received and the number of those for which pneumonia or influenza was listed as an underlying or contributing cause of death is collected. The percentage of deaths due to pneumonia and influenza are compared with a seasonal baseline and epidemic threshold value calculated for each week. These data are used to monitor the severity of influenza illness in the community.



# Utah 2012-2013 Influenza Season Summary

**Laboratory Surveillance: The Unified State Laboratory: Public Health** receives specimens from all over the state for comprehensive influenza testing. All specimens are tested to determine influenza type and subtype. A portion of specimens are also sent to the Centers for Disease Control and Prevention for additional testing, including gene sequencing, antiviral resistance testing and antigenic characterization.



**Table 6. Unified State Laboratory: Public Health Influenza Testing Data - Utah, 2012-2013 Season**

	Total	Percent
Specimens tested	1,407	--
Positive specimens	828	58.8
<b>Positive Specimens by Type/Subtype</b>		
Influenza A	663	80.1
A (2009 H1N1)	25	3.8
A (H1)	0	0.0
A (H3)	638	96.2
A (unable to subtype)	0	0.0
Influenza B	165	19.9