

**INFLUENZA VACCINATION COVERAGE
REPORT FOR HOSPITAL
HEALTHCARE WORKERS:
2011-2012 Influenza Season**

Utah Department of Health
Division of Disease Control and Prevention
Bureau of Epidemiology

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Introduction

The Advisory Committee on Immunization Practices (ACIP) recommends annual influenza immunization of healthcare workers (HCWs) to reduce rates of healthcare-associated infections (HAIs). The ACIP also recommends that measures be taken to increase HCW immunization rates, and that those rates be used as a measure of the quality of a patient safety program.

In November of 2007, the Utah Department of Health (UDOH) adopted a Healthcare-Associated Infections reporting rule (Rule-386-705, Epidemiology, Healthcare-Associated Infection). This rule requires that hospitals report HCW influenza vaccination rates. Results have shown that HCW influenza vaccination rates in Utah hospitals have increased consistently from 71.7 percent in 2008 to 93.8 percent in 2011. (Figure 1)

Additionally, in April 2011, the Utah Healthcare Infection Prevention (UHIP) Governance Committee* recommended that all healthcare delivery facilities in Utah implement a policy of mandatory** annual influenza vaccination for all healthcare personnel, unless an organization has achieved a vaccination rate greater than 95 percent by other means. While the UDOH does not *require* Utah hospitals to have mandatory influenza vaccination policies for HCWs, some Utah healthcare facilities have such policies in place. During the 2011-2012 influenza season, 35 of 60 (58.3 percent) Utah hospitals had a mandatory HCW influenza vaccination policy; 15 of 60 (25 percent) Utah hospitals had no mandatory HCW influenza vaccination policy; and 10 of 60 (16.7 percent) Utah hospitals were identified as unknown. (Figure 2) All (100 percent) Utah hospitals with mandatory HCW influenza vaccination policies reported vaccination rates of 90 percent or greater.

Developed by the UDOH, in collaboration with a subgroup of the UHIP Governance Committee, this report will allow Utahns to compare influenza vaccination rates for HCWs among licensed hospitals in Utah. The information in this report is collected from annual data in all licensed hospitals on the number of HCWs that were vaccinated for seasonal influenza. To determine hospital and state-specific influenza vaccination rates, data were collected on the number of HCWs at each licensed hospital in Utah, and the number of HCWs that were vaccinated for seasonal influenza. Vaccination rates were calculated by dividing the number of HCWs vaccinated by the total number of HCWs.

*The Utah Healthcare Infection Prevention Governance Committee (http://health.utah.gov/epi/HAI/governance_committee.html) is a multi-disciplinary panel of state leaders in patient safety, infectious diseases, and infection control. Membership is comprised of a broad base of care delivery groups across the State and organized under and staffed by the Utah Department of Health.

**Employer requirement for influenza vaccination.

Figure 1:

Hospitals with Healthcare Worker Influenza Vaccination Mandates for 2011-2012 Influenza Season

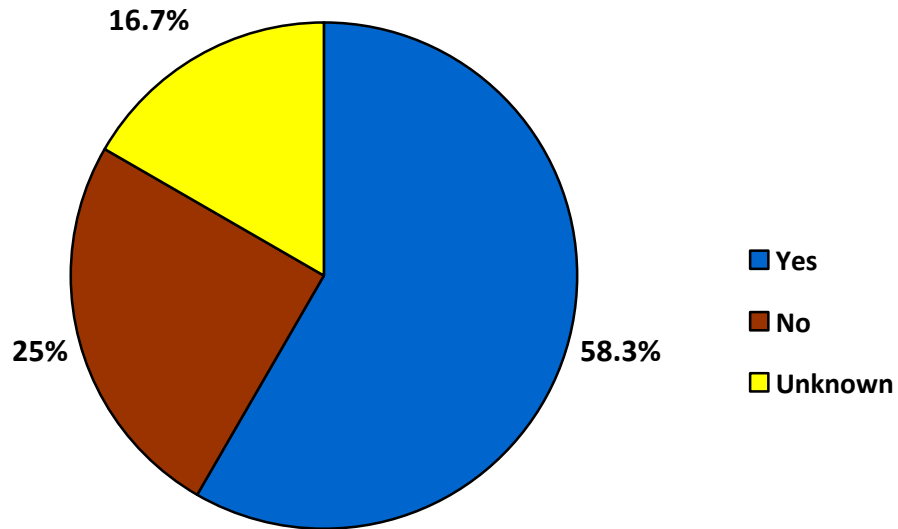
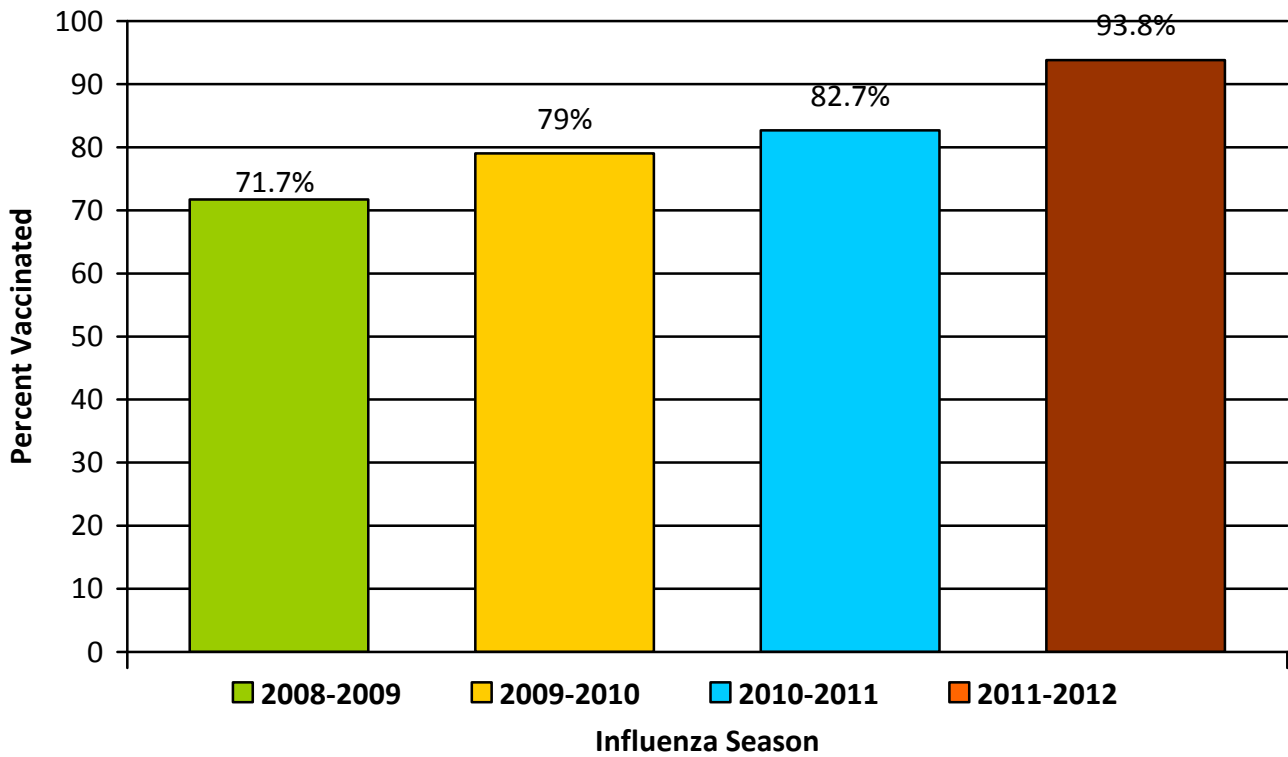


Figure 2:

Utah Hospital Healthcare Worker Influenza Vaccination Percentage Rate, by Influenza Season



Overview - State of Utah

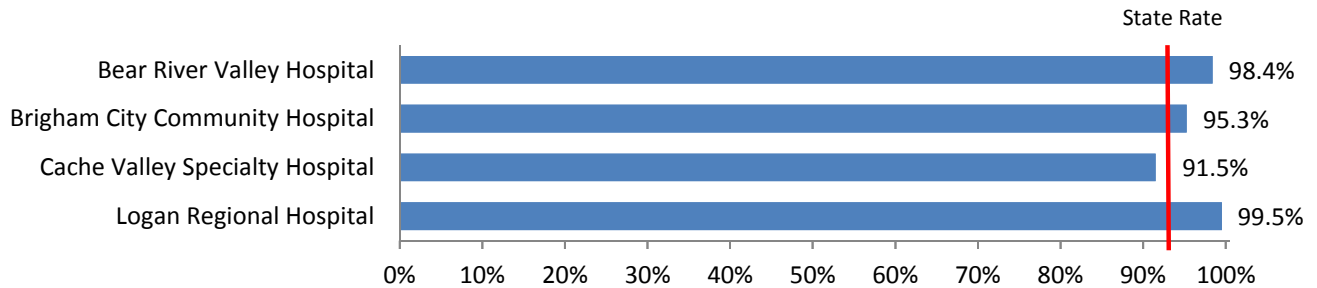
Licensed Hospitals*		
Number of licensed hospitals in Utah:	60	--
Number of licensed hospitals that reported:	60	100%
Number of licensed hospitals that didn't report:	0	0%
Number of healthcare workers in reporting licensed hospitals:	45,753	--
Number of vaccinated healthcare workers:	42,931	93.8%
Range of vaccination percentages by facility type:	30.4% - 100%	
Acute Care hospitals	89.6% - 100%	
Long-term Acute Care hospitals	89.4% - 98.4%	
Critical Access hospitals	30.6% - 100%	
Rehabilitation hospitals	87.7%	
Psychiatric hospitals	30.4% - 92.3%	
Children's hospitals	89.2% - 99.1%	
Government hospitals	53.9%	
*Utah licensed hospitals include: Acute Care, Long-term Acute Care, Critical Access, Rehabilitation, Psychiatric, Government and Children's hospitals		

Influenza Vaccination Rates for Healthcare Workers (HCWs) by Health District:

Bear River Health District*				
	Number of HCWs ¹	Number of Vaccinated HCWs ²	Influenza Vaccination Percentage ³	95% Confidence Interval ⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	1,553	1,519	97.8%	97.1%-98.5%
Bear River Valley Hospital	127	125	98.4%	96.3%-100.0%
Brigham City Community Hospital	169	161	95.3%	92.1%-98.5%
Cache Valley Specialty Hospital	224	205	91.5%	87.9%-95.2%
Logan Regional Hospital	1,033	1,028	99.5%	99.1%-99.9%

*Box Elder, Cache, and Rich Counties

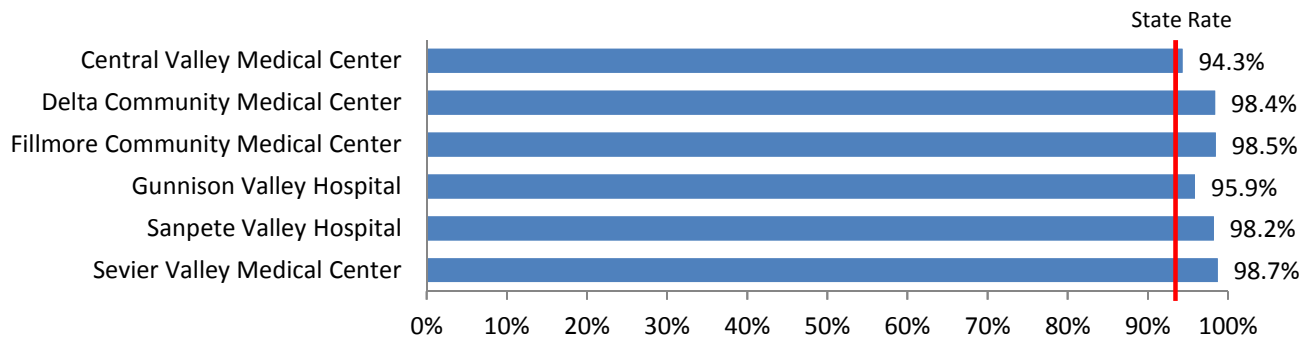
Bear River Health District HCW Influenza Vaccination Rates



Central Utah Health District*				
	Number of HCWs ¹	Number of Vaccinated HCWs ²	Influenza Vaccination Percentage ³	95% Confidence Interval ⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	923	891	96.5%	95.4%-97.7%
Central Valley Medical Center	282	266	94.3%	91.6%-97.0%
Delta Community Medical Center	62	61	98.4%	95.3%-100.0%
Fillmore Community Medical Center	66	65	98.5%	95.5%-100.0%
Gunnison Valley Hospital	244	234	95.9%	93.4%-98.4%
Sanpete Valley Hospital	113	111	98.2%	95.8%-100.0%
Sevier Valley Medical Center	156	154	98.7%	97.0%-100.0%

*Juab, Millard, Sanpete, Sevier, Piute, and Wayne Counties

Central Utah Health District HCW Influenza Vaccination Rates



**Utah licensed hospitals include: Acute Care, Long-term Acute Care, Critical Access, Rehabilitation, Psychiatric, Government and Children's hospitals.

¹Total number of healthcare workers employed in the licensed hospital.

²Total number of healthcare workers employed in the licensed hospital who received the influenza vaccine during the 2011-2012 influenza season.

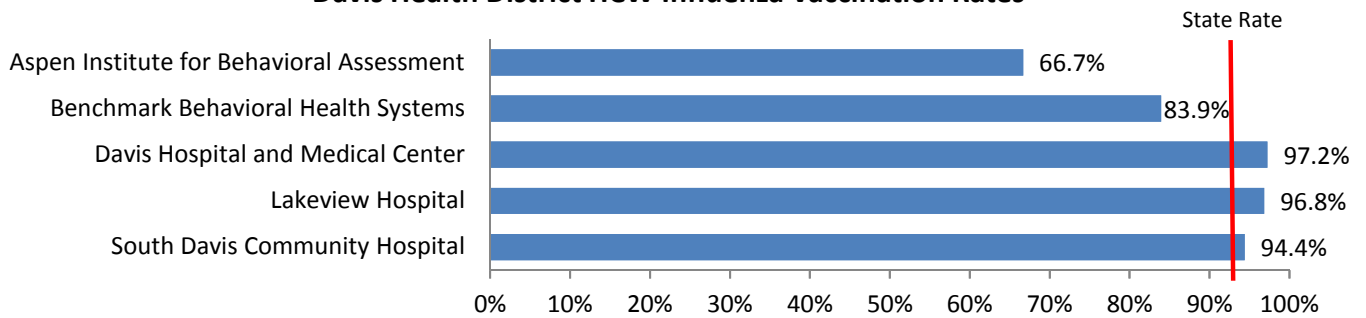
³Vaccination coverage levels of healthcare workers who received influenza vaccine during 2011-2012 influenza season.

⁴A confidence interval represents a range of possible percentages in which the true percentage lies with 95% probability.

Davis Health District*				
	Number of HCWs¹	Number of Vaccinated HCWs²	Influenza Vaccination Percentage³	95% Confidence Interval⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	2,158	2,050	95.0%	94.1%-95.9%
Aspen Institute for Behavioral Assessment	36	24	66.7%	51.3%-82.1%
Benchmark Behavioral Health Systems	137	115	83.9%	77.8%-90.1%
Davis Hospital and Medical Center	796	774	97.2%	96.1%-98.4%
Lakeview Hospital	599	580	96.8%	95.4%-98.2%
South Davis Community Hospital	590	557	94.4%	92.6%-96.3%

*Davis County

Davis Health District HCW Influenza Vaccination Rates



**Utah licensed hospitals include: Acute Care, Long-term Acute Care, Critical Access, Rehabilitation, Psychiatric, Government and Children's hospitals.

¹Total number of healthcare workers employed in the licensed hospital.

²Total number of healthcare workers employed in the licensed hospital who received the influenza vaccine during the 2011-2012 influenza season.

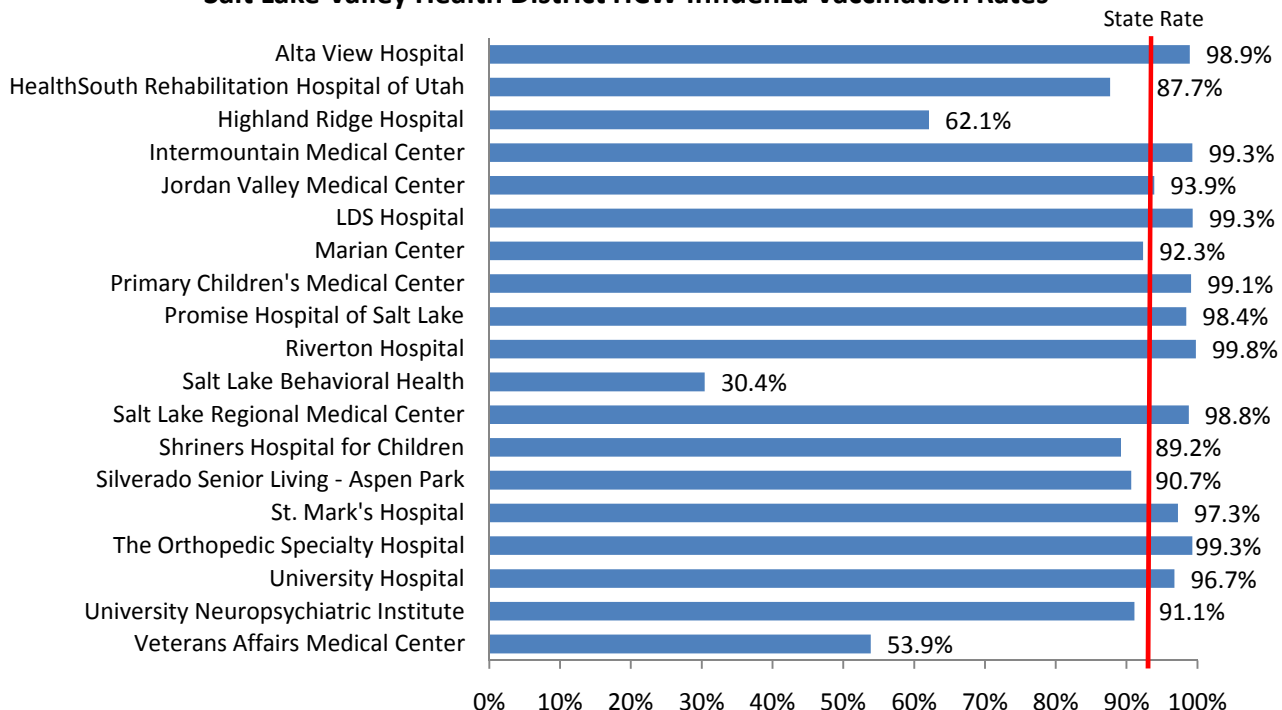
³Vaccination coverage levels of healthcare workers who received influenza vaccine during 2011-2012 influenza season.

⁴A confidence interval represents a range of possible percentages in which the true percentage lies with 95% probability.

Salt Lake Valley Health District*				
	Number of HCWs ¹	Number of Vaccinated HCWs ²	Influenza Vaccination Percentage ³	95% Confidence Interval ⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	6,154	5,759	93.6%	93.0%-94.2%
Alta View Hospital	566	560	98.9%	98.1%-99.8%
HealthSouth Rehabilitation Hospital of Utah	195	171	87.7%	83.1%-92.3%
Highland Ridge Hospital	95	59	62.1%	52.4%-71.9%
Intermountain Medical Center	4,895	4,860	99.3%	99.0%-99.5%
Jordan Valley Medical Center	1,202	1,129	93.9%	92.6%-95.3%
LDS Hospital	1,468	1,458	99.3%	98.9%-99.7%
Marian Center	26	24	92.3%	82.1%-100.0%
Primary Children's Medical Center	3,137	3,109	99.1%	98.8%-99.4%
Promise Hospital of Salt Lake	189	186	98.4%	96.6%-100.0%
Riverton Hospital	479	478	99.8%	99.4%-100.0%
Salt Lake Behavioral Health	263	80	30.4%	24.9%-36.0%
Salt Lake Regional Medical Center	570	563	98.8%	97.9%-99.7%
Shriners Hospital for Children	241	215	89.2%	85.3%-93.1%
Silverado Senior Living - Aspen Park	139	126	90.7%	85.8%-95.5%
St. Mark's Hospital	1,462	1,422	97.3%	96.4%-98.1%
The Orthopedic Specialty Hospital	409	406	99.3%	98.4%-100.0%
University Hospital	7,802	7,548	96.7%	96.3%-97.1%
University Neuropsychiatric Institute	551	502	91.1%	88.7%-93.5%
Veterans Affairs Medical Center	2,320	1,250	53.9%	51.9%-55.9%

*Salt Lake County

Salt Lake Valley Health District HCW Influenza Vaccination Rates



**Utah licensed hospitals include: Acute Care, Long-term Acute Care, Critical Access, Rehabilitation, Psychiatric, Government and Children's hospitals.

¹Total number of healthcare workers employed in the licensed hospital.

²Total number of healthcare workers employed in the licensed hospital who received the influenza vaccine during the 2011-2012 influenza season.

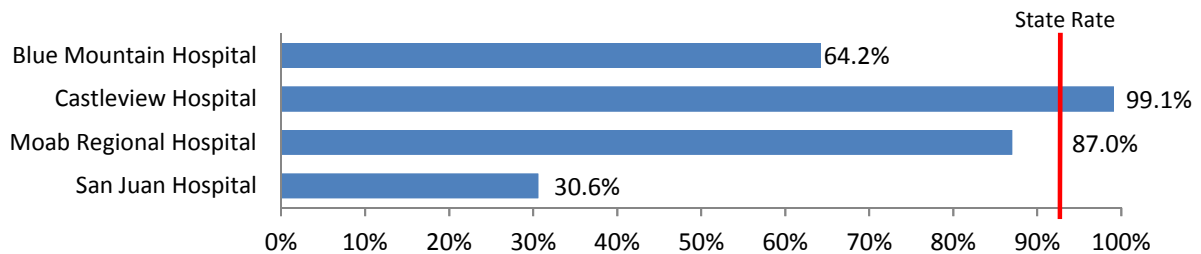
³Vaccination coverage levels of healthcare workers who received influenza vaccine during 2011-2012 influenza season.

⁴A confidence interval represents a range of possible percentages in which the true percentage lies with 95% probability.

Southeastern Utah Health District*				
	Number of HCWs¹	Number of Vaccinated HCWs²	Influenza Vaccination Percentage³	95% Confidence Interval⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	747	608	81.4%	78.6%-84.2%
Blue Mountain Hospital	123	79	64.2%	55.8%-72.7%
Castleview Hospital	341	338	99.1%	98.1%-100.0%
Moab Regional Hospital	185	161	87.0%	82.2%-91.9%
San Juan Hospital	98	30	30.6%	21.5%-39.7%

*Carbon, Emery, Grand, and San Juan Counties

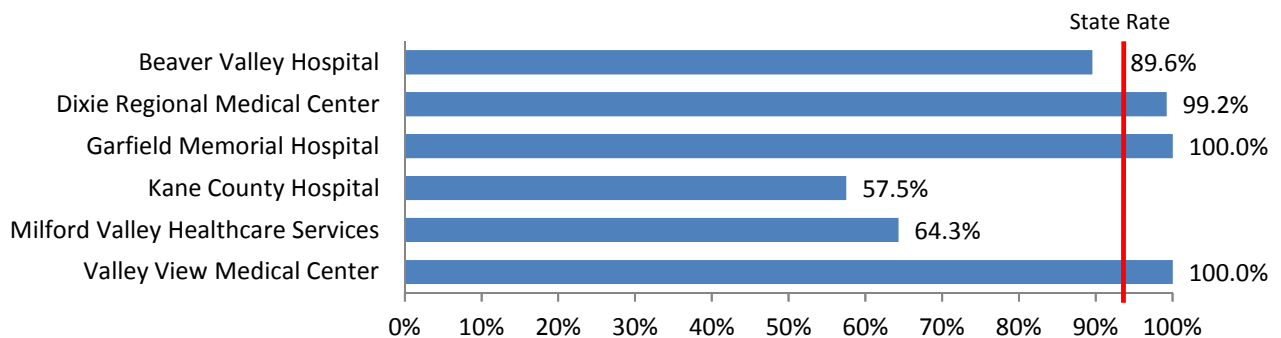
Southeastern Utah Health District HCW Influenza Vaccination Rates



Southwest Utah Health District*				
	Number of HCWs¹	Number of Vaccinated HCWs²	Influenza Vaccination Percentage³	95% Confidence Interval⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	2,817	2,716	96.4%	95.7%-97.1%
Beaver Valley Hospital	134	120	89.6%	84.4%-94.7%
Dixie Regional Medical Center	2,006	1,990	99.2%	98.8%-99.6%
Garfield Memorial Hospital	121	121	100.0%	100.0%-100.0%
Kane County Hospital	120	69	57.5%	48.7%-66.3%
Milford Valley Healthcare Services	56	36	64.3%	51.7%-76.8%
Valley View Medical Center	380	380	100.0%	100.0%-100.0%

*Beaver, Garfield, Iron, Kane, and Washington Counties

Southwest Utah Health District HCW Influenza Vaccination Rates



**Utah licensed hospitals include: Acute Care, Long-term Acute Care, Critical Access, Rehabilitation, Psychiatric, Government and Children's hospitals.

¹Total number of healthcare workers employed in the licensed hospital.

²Total number of healthcare workers employed in the licensed hospital who received the influenza vaccine during the 2011-2012 influenza season.

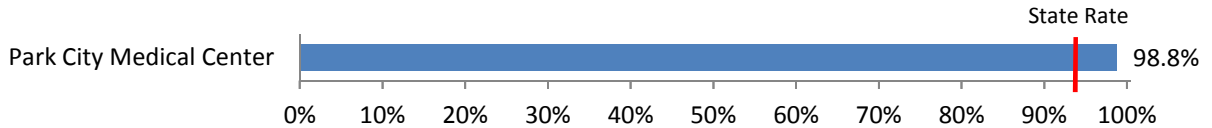
³Vaccination coverage levels of healthcare workers who received influenza vaccine during 2011-2012 influenza season.

⁴A confidence interval represents a range of possible percentages in which the true percentage lies with 95% probability.

Summit Health District*				
	Number of HCWs¹	Number of Vaccinated HCWs²	Influenza Vaccination Percentage³	95% Confidence Interval⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	328	324	98.8%	97.6%-100.0%
Park City Medical Center	328	324	98.8%	97.6%-100.0%

*Summit County

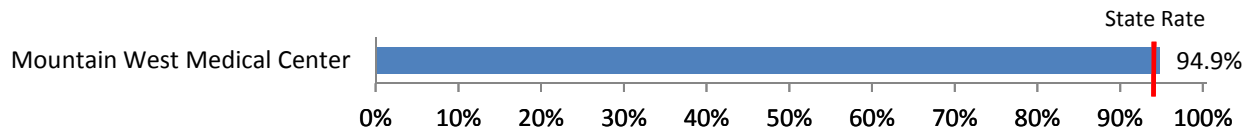
Summit Health District HCW Influenza Vaccination Rates



Tooele Health District*				
	Number of HCWs¹	Number of Vaccinated HCWs²	Influenza Vaccination Percentage³	95% Confidence Interval⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	408	387	94.9%	92.7%-97.0%
Mountain West Medical Center	408	387	94.9%	92.7%-97.0%

*Tooele County

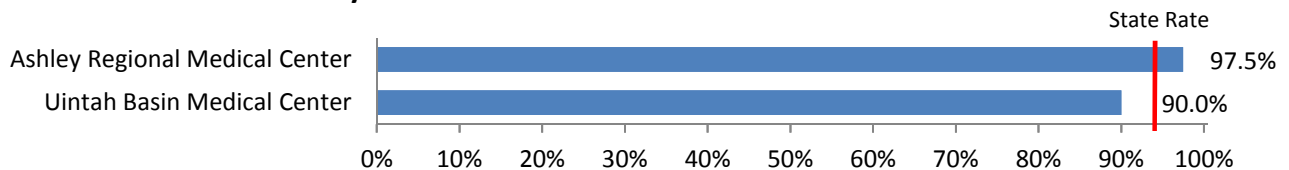
Tooele Health District HCW Influenza Vaccination Rates



Tri-County Health District*				
	Number of HCWs¹	Number of Vaccinated HCWs²	Influenza Vaccination Percentage³	95% Confidence Interval⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	970	894	92.2%	90.5%-93.9%
Ashley Regional Medical Center	279	272	97.5%	95.7%-99.3%
Uintah Basin Medical Center	691	622	90.0%	87.8%-92.2%

*Daggett, Duchesne, and Uintah Counties

Tri-County Health District HCW Influenza Vaccination Rates



**Utah licensed hospitals include: Acute Care, Long-term Acute Care, Critical Access, Rehabilitation, Psychiatric, Government and Children's hospitals.

¹Total number of healthcare workers employed in the licensed hospital.

²Total number of healthcare workers employed in the licensed hospital who received the influenza vaccine during the 2011-2012 influenza season.

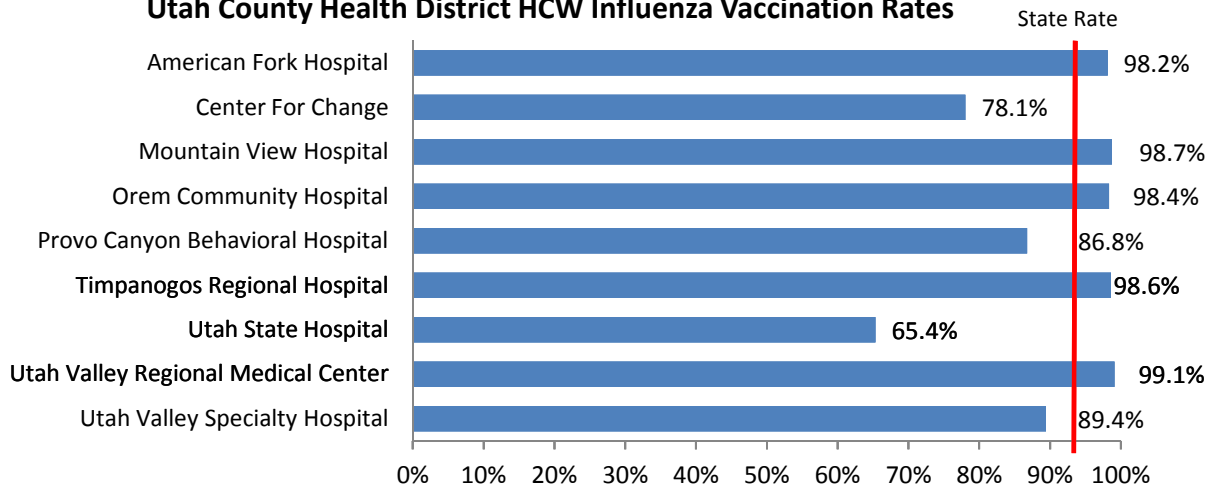
³Vaccination coverage levels of healthcare workers who received influenza vaccine during 2011-2012 influenza season.

⁴A confidence interval represents a range of possible percentages in which the true percentage lies with 95% probability.

Utah County Health District*				
	Number of HCWs ¹	Number of Vaccinated HCWs ²	Influenza Vaccination Percentage ³	95% Confidence Interval ⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	6,154	5,759	93.6%	93.0%-94.2%
American Fork Hospital	710	697	98.2%	97.2%-99.2%
Center For Change	155	121	78.1%	71.5%-84.6%
Mountain View Hospital	394	389	98.7%	97.6%-99.8%
Orem Community Hospital	182	179	98.4%	96.5%-100.0%
Provo Canyon Behavioral Hospital	68	59	86.8%	78.7%-94.8%
Timpanogos Regional Hospital	642	633	98.6%	97.7%-99.5%
Utah State Hospital	788	515	65.4%	62.0%-68.7%
Utah Valley Regional Medical Center	3,007	2,980	99.1%	98.8%-99.4%
Utah Valley Specialty Hospital	208	186	89.4%	85.2%-93.6%

*Utah County

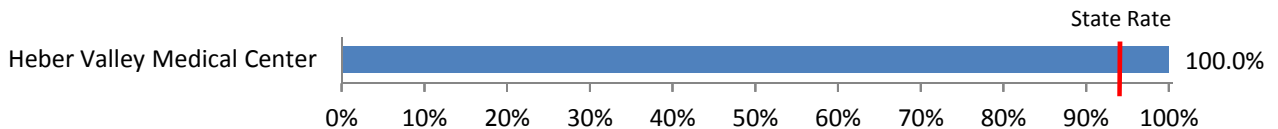
Utah County Health District HCW Influenza Vaccination Rates



Wasatch Health District*				
	Number of HCWs ¹	Number of Vaccinated HCWs ²	Influenza Vaccination Percentage ³	95% Confidence Interval ⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	117	117	100.0%	100.0%-100.0%
Heber Valley Medical Center	117	117	100.0%	100.0%-100.0%

*Wasatch County

Wasatch Health District HCW Influenza Vaccination Rates



**Utah licensed hospitals include: Acute Care, Long-term Acute Care, Critical Access, Rehabilitation, Psychiatric, Government and Children's hospitals.

¹Total number of healthcare workers employed in the licensed hospital.

²Total number of healthcare workers employed in the licensed hospital who received the influenza vaccine during the 2011-2012 influenza season.

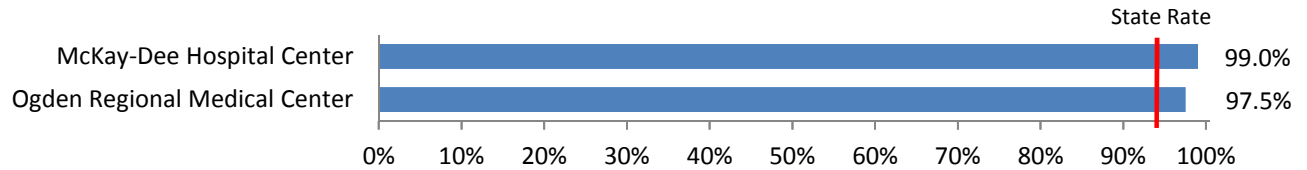
³Vaccination coverage levels of healthcare workers who received influenza vaccine during 2011-2012 influenza season.

⁴A confidence interval represents a range of possible percentages in which the true percentage lies with 95% probability.

Weber-Morgan Health District*				
	Number of HCWs¹	Number of Vaccinated HCWs²	Influenza Vaccination Percentage³	95% Confidence Interval⁴
Statewide Coverage	45,753	42,931	93.8%	93.6%-94.1%
Licensed Hospitals**	3,569	3,520	98.6%	98.2%-99.0%
McKay-Dee Hospital Center	2,645	2,619	99.0%	98.6%-99.4%
Ogden Regional Medical Center	924	901	97.5%	96.5%-98.5%

*Weber and Morgan Counties

Weber-Morgan Health District HCW Influenza Vaccination Rates



**Utah licensed hospitals include: Acute Care, Long-term Acute Care, Critical Access, Rehabilitation, Psychiatric, Government and Children's hospitals.

¹Total number of healthcare workers employed in the licensed hospital.

²Total number of healthcare workers employed in the licensed hospital who received the influenza vaccine during the 2011-2012 influenza season.

³Vaccination coverage levels of healthcare workers who received influenza vaccine during 2011-2012 influenza season.

⁴A confidence interval represents a range of possible percentages in which the true percentage lies with 95% probability.

Appendix A: Definitions

The following are definitions used in this report.

- 1. Advisory Committee on Immunization Practices** - a committee of experts in fields associated with immunization that provides advice and guidance to government agencies for reducing the number of vaccine-preventable diseases and to increase the safe usage of vaccines and related biological products.
- 2. Confidence Interval** - a confidence interval represents a range of possible percentages in which the true percentage lies with 95 percent probability.
- 3. Healthcare worker** - any person employed by a healthcare facility and who in the usual course of work either enters patient rooms or provides direct patient care. Healthcare workers may include personnel such as physicians, nurses, nursing assistants, therapists, technicians, emergency medical service personnel, dental personnel, pharmacists, laboratory personnel, or dietary, housekeeping, and maintenance personnel.
- 4. Healthcare-associated infections** - an infection that develops in a resident who is cared for in any setting where healthcare is delivered (e.g., acute care hospital, skilled nursing facility, dialysis center, etc.) that was not developing or present at the time of admission to that setting.
- 5. Hospital Facility Types:**
 - Acute Care** - a facility that provides diagnostic, therapeutic, and rehabilitative services to both inpatients and outpatients by or under the supervision of physicians.
 - Long-term Acute Care** - a hospital that provides on-site all basic services required of a general hospital that are needed for the diagnosis, therapy, and treatment offered or required by all patients admitted to the hospital, including pharmacy, laboratory, nursing services, occupational, physical, respiratory and speech therapies, dietary, social services, and specialized diagnosis and therapeutic services.
 - Children's Hospitals** - for purposes of this report, a children's hospital refers to Primary Children's Medical Center and Shriners Hospital for Children in Salt Lake City, Utah.
 - Critical Access** - a nonprofit, profit or public hospital that is enrolled as a Medicaid provider and qualifies as a Critical Access Hospital under 42, Code of Federal Regulations, Section 485, Subpart F - Conditions of Participation Critical Access Hospitals. Visit www.CMS.gov for more information.
 - Government** - for purposes of this report, a government hospital refers to the Veterans Affairs Salt Lake City Health Care System in Salt Lake City, Utah.
 - Specialty Hospital** - a facility that provides specialized diagnostic, therapeutic, or rehabilitative services in the recognized specialty or specialties for which the hospital is licensed including, but not limited to, psychiatric and rehabilitation hospitals.

**Utah Department of Health
Healthcare-Associated Infections
Prevention & Reporting Program**
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