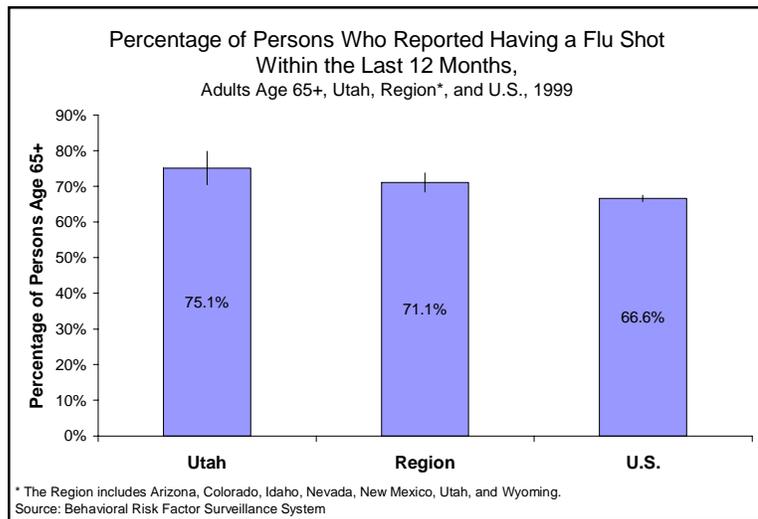


# Influenza Vaccination

*Questions: Have you had a flu shot in the last 12 months?*

Immunization against influenza is known to prevent serious illness and death, and can also help control the spread of flu within the community. The vast majority of deaths attributed to this illness occurred among persons 65 years of age or older, particularly those with chronic medical conditions. The Utah Department of Health supports national recommendations of the Advisory Committee on Immunization Practices (ACIP) to improve influenza and pneumococcal immunization levels, especially among high risk adults. The Institute of Medicine Committee on Using Performance Monitoring to Improve Community Health

proposed that the proportion of adults aged 65 or older who have been immunized in the past 12 months for influenza be included as one of 25 Community Health Profile indicators.



- In Utah, the estimated percentage of persons age 65 or over who reported having a flu shot within the past 12 months increased substantially from 54.8% in 1993 to 75.1% in 1999. However, there was a significant change downward in this trend from 1995 to 1997.
- The Region and U.S. also experienced a significant increase in the estimated percentage of persons age 65 or over who reported having a flu shot within the past 12 months. The U.S. data also showed a significant non-linear trend which suggests a leveling off between 1997 and 1999.
- In 1999, the estimated percentage of persons age 65 or over in Utah who reported having a flu shot within the past 12 months was not significantly different than that for the Region, but was greater than that for the U.S.
- Utah attained the Healthy People 2000 objective of 60% for the percentage of older people who are immunized annually against influenza.

**Utah Objective:** By 2010, increase immunization levels to 60% for pneumococcal and influenza vaccines among adults age 50 and over.

**HP2000 Goal 20.11:** Increase immunization levels as follows: Pneumococcal pneumonia and influenza immunization among noninstitutionalized people 65 years and older to at least 60%.

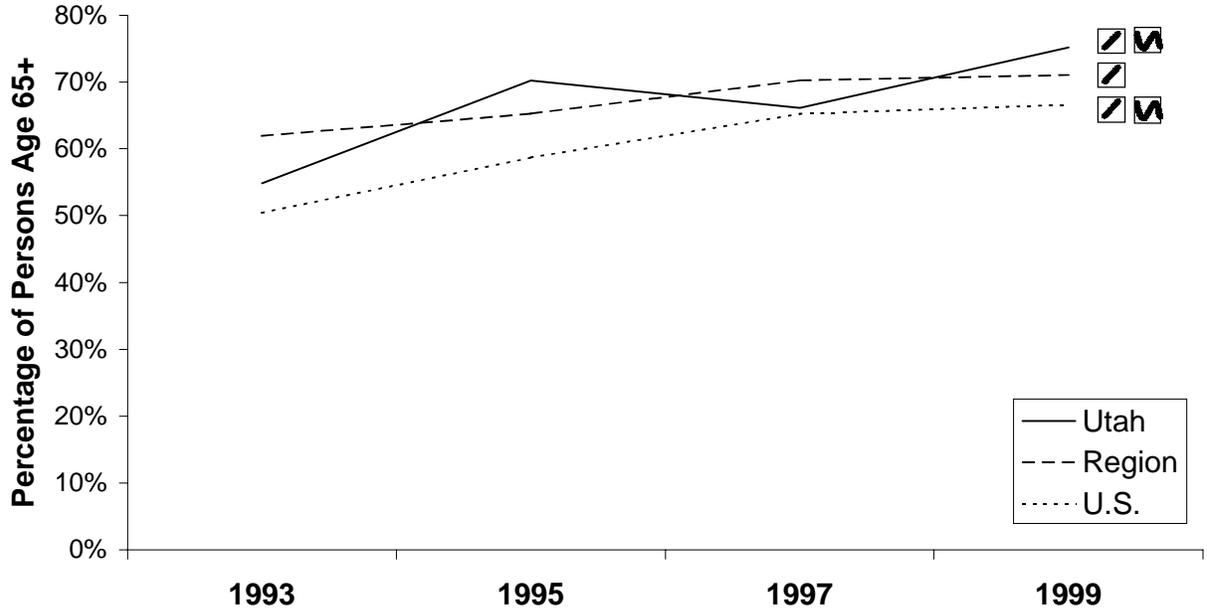
**HP2010 Goal 14-29:** Increase the proportion of adults who are vaccinated annually against influenza and ever vaccinated against pneumococcal disease to 90% for non-institutionalized adults aged 65 years and older.

**CDI 67:** Influenza vaccination among older adults (percent of respondents age 65 years or older who report having received a influenza vaccination within the past year).

**CHSI:** Flu vaccine among adults 65+, past year.

# Influenza Vaccination

Percentage of Persons Who Reported Having a Flu Shot Within the Last Twelve Months, Adults Age 65+, Utah, Region\*, and U.S., 1993, 1995, 1997, 1999



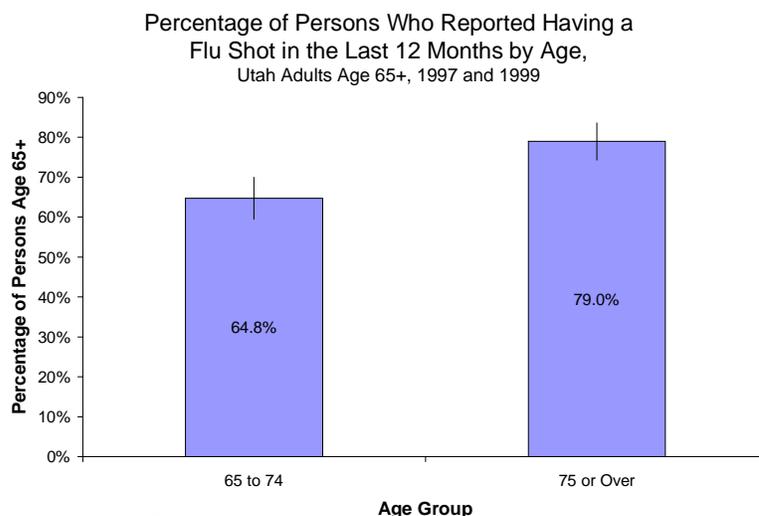
\* The Region includes Arizona, Colorado, Idaho, Nevada, New Mexico, Utah, and Wyoming.  
 Not all states participated in the BRFSS until 1994 (see Appendix A)  
 Source: Behavioral Risk Factor Surveillance System

Year	Utah			Region			U.S.		
	Percentage of Adults Age 65+	95% Confidence Intervals		Percentage of Adults Age 65+	95% Confidence Intervals		Percentage of Adults Age 65+	95% Confidence Intervals	
		Lower	Upper		Lower	Upper		Lower	Upper
1993	54.8%	48.1%	61.5%	61.9%	58.9%	65.0%	50.4%	49.4%	51.4%
1995	70.2%	65.4%	75.0%	65.3%	62.6%	67.9%	58.7%	57.6%	59.8%
1997	66.2%	60.5%	71.8%	70.2%	67.6%	72.9%	65.2%	64.3%	66.1%
1999	75.1%	70.4%	79.9%	71.1%	68.4%	73.8%	66.6%	65.7%	67.5%

-  upward linear trend
-  non-linear trend

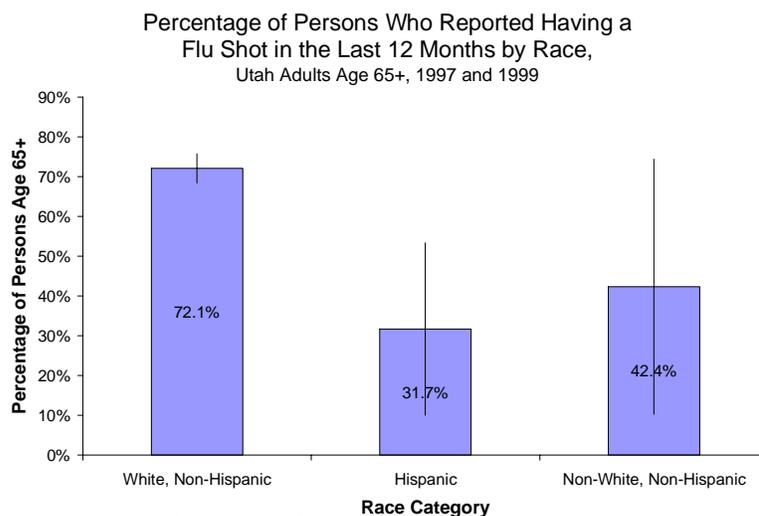
# Influenza Vaccination

- Utah adults 75 years or over were more likely to report having an influenza vaccination in the past 12 months than those 65 through 74 years old. ( $p = 0.0001$ )



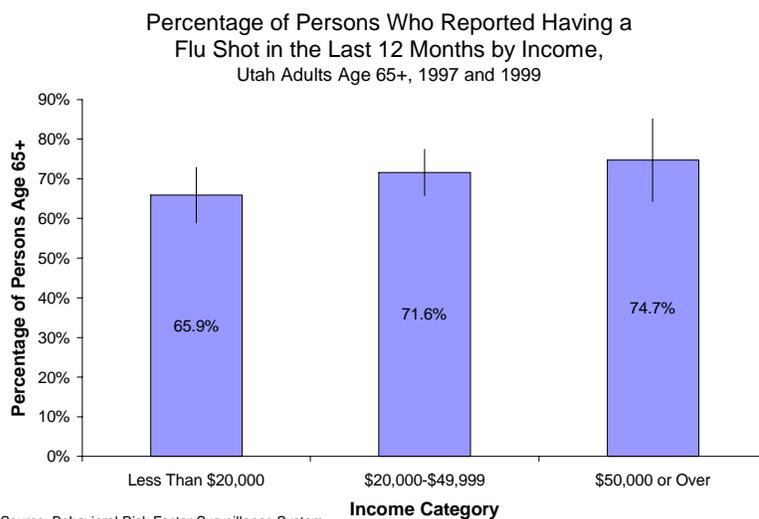
Source: Behavioral Risk Factor Surveillance System

- Utah adults age 65 or over who were White, non-Hispanic were more likely than those who were Hispanic or non-White, non-Hispanic to report having a flu shot within the past 12 months. ( $p = 0.0005$ )



Source: Behavioral Risk Factor Surveillance System

- Sample sizes for Utahns 65 years or over were too small to be able to say anything about differences between income or educational subgroups in Utah regarding flu vaccination rates.
- Though the percentage of Utahns age 65 or over who reported having a flu shot within the past 12 months appears to have increased with both educational and income levels, these trends were not statistically significant due to small sample sizes.



Source: Behavioral Risk Factor Surveillance System

# Influenza Vaccination

Percentage of Persons Who Reported Having a Flu Shot in the Last 12 Months by Selected Demographic Characteristics, Utah Adults Age 65+, 1997 & 1999.

Demographic Subgroup	Utah Population		Survey Estimates of Respondents Age 65+ Who Reported Having a Flu Shot in Last 12 Months					
	Distribution	Number of Adults Age 65+ <sup>1</sup>	Percentage of Adults 65+ Who Reported Having a Flu Shot in Last 12 Months	95% Confidence Intervals			Number of Adults Age 65+ <sup>1,2</sup>	Distribution of Adults Age 65+ Who Reported Having a Flu Shot in Last 12 Months by Category
				Lower	Upper			
<b>Had Flu Shot in Last 12 Months</b>								
Yes	70.9%	126,100						
No	29.1%	51,700						
Total, Adults Age 65+	100.0%	177,800						
<b>Sex</b>								
Males	43.6%	77,600	71.1%	65.4%	76.7%	55,100	43.7%	
Females	56.4%	100,200	70.8%	66.1%	75.6%	71,000	56.3%	
Total, Adults Age 65+	100.0%	177,800	70.9%	67.3%	74.5%	126,100	100.0%	
<b>Age Group</b>								
65 to 74	56.8%	43,600	64.8%	59.5%	70.0%	28,200	31.8%	
75 or Over	43.2%	76,800	79.0%	74.3%	83.6%	60,600	68.2%	
Total, Adults Age 65+	100.0%	177,800	70.9%	67.3%	74.5%	126,100	100.0%	
<b>Race</b>								
White, Non-Hispanic	96.7%	171,900	72.1%	68.4%	75.7%	123,900	98.3%	
Hispanic	1.9%	3,300	31.7%	10.0%	53.4%	1,000	0.8%	
Non-White, Non-Hispanic	1.4%	2,500	42.4%	10.3%	74.5%	1,100	0.9%	
Total, Adults Age 65+	100.0%	177,800	70.9%	67.3%	74.5%	126,100	100.0%	
<b>Income</b>								
Less Than \$20,000	34.2%	60,800	65.9%	58.9%	72.9%	40,100	32.1%	
\$20,000-\$49,999	50.8%	90,300	71.6%	65.8%	77.4%	64,700	51.8%	
\$50,000 or Over	15.0%	26,700	74.7%	64.3%	85.2%	20,000	16.0%	
Total, Adults Age 65+	100.0%	177,800	70.9%	67.3%	74.5%	126,100	100.0%	
<b>Education</b>								
Less Than High School	10.8%	19,300	66.5%	55.7%	77.3%	12,800	10.2%	
H.S. Grad or G.E.D.	31.3%	55,600	70.3%	64.0%	76.6%	39,100	31.0%	
Some Post High School	31.5%	56,000	68.7%	61.7%	75.7%	38,500	30.5%	
College Graduate	26.4%	47,000	75.9%	69.2%	82.7%	35,700	28.3%	
Total, Adults Age 65+	100.0%	177,800	70.9%	67.3%	74.5%	126,100	100.0%	

1 Rounded to the nearest 100 persons.

2 Figures in these columns may not sum to the total because of missing values on the grouping variables.

Source: Utah Behavioral Risk Factor Surveillance System