

TABLE 1. Percentage of persons aged ≥18 years who reported receiving influenza or pneumococcal vaccine\* or tetanus toxoid, by age and selected characteristics – National Health Interview Survey, United States, 1999†

Characteristic	Received influenza vaccine during previous 12 mos			Ever received pneumococcal vaccine			Received tetanus toxoid during previous 10 yrs		
	High-risk persons		All persons Aged 65 yrs (n=5,887)	High-risk persons		All persons Aged 65 yrs (n=5,766)	All persons		
	Aged 18-49 yrs (n=2,505)	Aged 50-64 yrs (n=1,775)		Aged 18-49 yrs (n=2,099)	Aged 50-64 yrs (n=1,697)		Aged 18-49 yrs (n=17,516)	Aged 50-64 yrs (n=5,854)	Aged 65 yrs (n=5,519)
	% (95% CI)†	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	
<b>Sex</b>									
Male	23.6 (±3.4)	42.4 (±4.1)	67.2 (±2.2)	13.2 (±2.9)	23.2 (±3.3)	50.1 (±2.5)	70.7 (±1.2)	62.5 (±2.2)	49.8 (±2.3)
Female	22.0 (±2.3)	47.4 (±3.6)	64.6 (±1.9)	8.8 (±1.8)	27.5 (±3.3)	49.4 (±2.0)	61.8 (±1.2)	51.3 (±1.9)	35.9 (±1.8)
<b>Race/ethnicity<sup>§</sup></b>									
Non-Hispanic white	22.5 (±2.3)	47.1 (±3.1)	67.9 (±1.6)	10.3 (±1.9)	27.1 (±2.7)	53.1 (±1.8)	70.7 (±1.0)	59.0 (±1.7)	42.9 (±1.7)
Non-Hispanic black	20.4 (±5.2)	34.1 (±7.2)	49.7 (±4.4)	14.0 (±4.9)	21.4 (±6.2)	32.6 (±4.4)	58.0 (±2.5)	47.4 (±4.2)	35.4 (±4.1)
Hispanic	24.2 (±5.2)	38.1 (±6.9)	55.1 (±5.1)	5.3 (±2.6)	17.0 (±5.5)	27.9 (±5.4)	51.9 (±2.6)	48.2 (±4.2)	34.5 (±5.4)
American Indian/ Alaskan Native	29.6(±17.2)**	¶	¶	¶	¶	¶	71.0 (±7.0)	¶	¶
Asian/Pacific Islander	¶	¶	71.7 (±9.4)	¶	¶	37.0(±13.1)	51.7 (±5.0)	42.6(±12.2)	42.2(±14.7)
<b>Poverty status<sup>††</sup></b>									
At or above poverty level	23.4 (±2.3)	45.9 (±3.2)	66.7 (±1.8)	10.8 (±2.0)	24.7 (±2.6)	52.0 (±1.9)	68.4 (±1.0)	59.2 (±1.8)	43.6 (±1.9)
Below poverty level	17.7 (±4.0)	36.2 (±7.1)	58.9 (±4.8)	8.2 (±3.3)	27.1 (±6.6)	39.6 (±5.1)	63.4 (±2.9)	48.0 (±5.4)	35.3 (±5.1)
<b>Education level</b>									
Less than high school	17.9 (±4.8)	39.0 (±5.4)	61.0 (±2.5)	7.7 (±3.4)	27.4 (±4.8)	43.7 (±2.7)	58.0 (±2.5)	47.1 (±3.3)	34.9 (±2.6)
High school	21.5 (±3.7)	43.3 (±4.8)	64.5 (±2.6)	10.4 (±3.4)	23.0 (±3.9)	48.9 (±2.6)	64.9 (±1.6)	54.9 (±2.5)	40.2 (±2.6)
More than high school	24.4 (±2.6)	49.2 (±3.8)	71.1 (±2.3)	11.2 (±2.1)	26.0 (±3.4)	56.4 (±2.8)	69.1 (±1.1)	61.3 (±2.0)	49.8 (±2.5)
<b>Insurance status</b>									
Have medical insurance	24.5 (±2.3)	46.7 (±2.9)	66.0 (±1.5)	11.9 (±2.0)	26.2 (±2.5)	49.86(±1.6)	67.9 (±1.0)	58.3 (±1.6)	41.9 (±1.5)
No medical insurance	14.0 (±3.7)	29.2 (±7.9)	¶	4.3 (±2.0)	18.4 (±5.9)	¶	59.0 (±2.0)	44.5 (±4.3)	35.1(±18.7)**
<b>No. physician contacts during previous 12 mos</b>									
None	10.9 (±4.3)	21.5 (±9.8)	34.9 (±4.6)	4.6 (±2.9)	9.3 (±6.4)	26.1 (±4.7)	57.4 (±1.9)	41.2 (±4.0)	29.4 (±4.5)
1	11.9 (±3.8)	28.7 (±8.5)	54.9 (±4.6)	3.5 (±3.1)	13.5 (±6.3)	39.0 (±4.4)	66.1 (±1.9)	57.3 (±3.7)	39.1 (±4.8)
2-3	22.3 (±4.0)	40.2 (±6.0)	69.0 (±2.9)	6.4 (±2.8)	18.8 (±4.9)	48.7 (±2.9)	69.2 (±1.6)	58.3 (±3.2)	41.6 (±3.1)
4-9	26.2 (±3.8)	47.4 (±4.7)	71.3 (±2.4)	10.7 (±2.8)	23.8 (±3.8)	54.8 (±2.4)	70.3 (±1.8)	57.2 (±2.9)	44.5 (±2.6)
≥10	28.8 (±4.2)	53.8 (±4.7)	70.9 (±3.1)	19.4 (±4.0)	37.3 (±5.0)	57.8 (±3.1)	72.2 (±2.1)	68.3 (±3.2)	45.0 (±3.4)
<b>Total</b>	<b>22.6 (±2.0)</b>	<b>45.0 (±2.7)</b>	<b>65.7 (±1.5)</b>	<b>10.5 (±1.7)</b>	<b>25.3 (±2.2)</b>	<b>49.7 (±1.6)</b>	<b>66.2 (±0.9)</b>	<b>56.7 (±1.5)</b>	<b>41.9 (±1.5)</b>

\*The prevalences of influenza and pneumococcal vaccination were estimated only for persons at high risk for complications caused by these infections (i.e., 18-49-year-olds and 50-64-year-olds with high risk medical conditions and all persons aged ≥65 years).

Persons categorized as "high risk" for influenza-related complications self-reported one or more of the following: Ever being told by a physician they had diabetes, emphysema, coronary heart disease, angina, heart attack or other heart condition; being diagnosed with cancer in the past 12 months (excluding non-melanoma skin cancer) or ever being told by a physician they have lymphoma, leukemia or blood cancer; in the past 12 months being told by a physician they have chronic bronchitis or weak or failing kidneys; or reporting an asthma episode or attack in the past 12 months. Persons

categorized as "high risk" for pneumococcal-related complications met the above criteria, excluding asthma, or reported liver disease during the past 12 months.

#Provisional release data, National Health Interview Survey, 1999. n=30,801. Sample sizes might not total 30,801 because persons with unknown vaccination status were excluded from analysis.

†Confidence interval. 95% CIs were calculated by multiplying the standard error by  $\pm 1.96$ .

§Persons of Hispanic origin can be of any race; however, the race groups non-Hispanic white, non-Hispanic black, American Indian/Alaskan Native, and Asian/Pacific Islander do not include persons of Hispanic origin.

\*The standard of reliability is  $RSE < 0.3$  (where  $RSE = \frac{\text{standard error}}{\text{prevalence}}$ ). This estimate did not meet that standard, or the denominator was  $< 30$ .

\*\*Meets the standard of reliability; however,  $< 50$  respondents were in the denominator.

††Poverty status is based on family size, number of children aged  $< 18$  years, and family income. Published 1998 poverty thresholds from the Census Bureau are used in these calculation. Persons for whom poverty level was not determined were excluded from this analysis.