

Table 84 (page 1 of 2). Influenza vaccination among adults 18 years of age and over, by selected characteristics: United States, selected years 1989–2009

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

<i>Characteristic</i>	<i>1989</i>	<i>1995</i>	<i>2000</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>
	Percent receiving influenza vaccination during past 12 months ¹							
18 years and over, age-adjusted ^{2,3}	9.6	23.7	28.7	21.6	27.4	29.9	32.1	34.1
18 years and over, crude ³	9.1	23.0	28.4	21.4	27.6	30.1	32.6	34.7
Age								
18–49 years	3.4	13.1	17.1	10.7	15.6	17.8	20.1	23.0
50 years and over	19.9	41.9	47.9	38.1	45.9	48.5	50.7	51.1
50–64 years	10.6	27.0	34.6	23.0	33.2	36.2	39.6	40.7
65 years and over	30.4	58.2	64.4	59.7	64.3	66.7	67.2	66.8
65–74 years	28.0	54.9	61.1	53.7	60.1	61.6	60.9	61.5
75 years and over	34.2	63.0	68.4	66.3	69.2	72.6	74.3	73.2
50 years and over								
Sex								
Male	19.2	40.2	45.9	34.7	43.2	45.6	47.6	49.2
Female	20.6	43.4	49.5	40.9	48.3	51.0	53.5	52.8
Race ⁴								
White only	20.9	43.6	49.8	39.7	47.2	49.9	52.1	52.4
Black or African American only	12.5	28.2	33.2	26.9	34.9	38.2	41.1	41.7
American Indian or Alaska Native only	26.2	*	43.6	*22.9	56.3	45.8	49.3	42.8
Asian only	*9.2	35.6	43.3	30.6	44.8	45.3	47.1	50.4
Native Hawaiian or Other Pacific Islander only	---	---	*	*	*	*	*	*
2 or more races	---	---	50.7	30.4	40.2	44.8	46.3	47.7
Hispanic origin and race ⁴								
Hispanic or Latino	13.2	33.8	34.4	24.7	31.7	35.5	38.0	40.3
Mexican	13.0	35.4	33.0	26.1	33.5	36.1	36.5	40.4
Not Hispanic or Latino	20.3	42.4	48.8	39.1	47.1	49.6	51.9	52.1
White only	21.3	44.3	50.6	41.0	48.6	51.3	53.6	53.7
Black or African American only	12.4	28.5	33.2	26.9	35.1	38.1	41.0	41.7
Percent of poverty level ⁵								
Below 100%	19.6	39.7	44.1	35.8	42.1	44.8	44.4	45.2
100%–199%	24.0	43.2	50.7	41.2	47.5	47.9	52.0	49.4
200%–399%	20.5	43.7	51.5	42.1	48.0	50.7	51.8	52.6
400% or more	17.5	39.3	44.3	33.9	44.4	48.0	50.8	52.0
Hispanic origin and race and percent of poverty level ^{4,5}								
Hispanic or Latino:								
Below 100%	12.7	29.7	35.8	22.3	30.9	41.1	37.0	42.2
100%–199%	20.4	34.7	35.6	27.5	32.0	42.7	41.3	32.4
200%–399%	12.7	34.2	33.7	22.3	33.8	31.3	34.5	41.1
400% or more	*9.8	39.1	32.2	26.6	29.5	28.9	39.9	48.7
Not Hispanic or Latino:								
White only:								
Below 100%	22.5	44.4	48.6	42.2	47.8	47.4	49.3	49.8
100%–199%	26.1	46.7	54.8	46.1	51.7	50.8	57.0	54.3
200%–399%	21.6	45.4	54.6	46.4	50.8	54.3	54.6	55.0
400% or more	18.1	40.8	46.0	35.1	45.9	50.2	52.3	53.3
Black or African American only:								
Below 100%	14.6	31.8	35.5	28.9	34.8	38.9	36.7	37.8
100%–199%	12.0	28.3	37.9	27.4	35.0	35.6	38.4	41.8
200%–399%	14.1	29.0	31.0	25.7	36.2	41.2	44.1	45.1
400% or more	*8.8	*20.0	28.7	26.2	34.6	36.2	42.9	41.0

See footnotes at end of table.

Table 84 (page 2 of 2). Influenza vaccination among adults 18 years of age and over, by selected characteristics: United States, selected years 1989–2009

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

<i>Characteristic</i>	<i>1989</i>	<i>1995</i>	<i>2000</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>
Disability measure⁶		Percent receiving influenza vaccination during past 12 months¹						
Any basic actions difficulty or complex activity limitation	---	---	55.2	46.5	53.4	55.8	57.2	56.9
Any basic actions difficulty	---	---	55.3	46.7	53.7	56.0	57.6	57.1
Any complex activity limitation	---	---	57.1	50.3	56.0	56.8	58.9	58.8
No disability	---	---	41.3	29.7	38.4	41.6	44.8	46.0
Geographic region								
Northeast	17.9	39.7	45.9	38.4	44.1	49.0	52.7	52.0
Midwest	20.0	43.2	49.3	39.9	49.4	51.4	53.7	52.9
South	20.2	41.4	46.8	37.3	43.9	47.2	49.4	50.9
West	21.8	43.8	50.1	36.8	47.3	46.9	48.1	48.8
Location of residence⁷								
Within MSA	18.9	41.6	47.1	37.2	44.9	47.1	50.2	51.0
Outside MSA	23.3	42.9	50.2	41.0	49.7	53.7	53.0	51.6

* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error (RSE) of 20%–30%. Data not shown have an RSE greater than 30%.

--- Data not available.

¹ Respondents were asked, “During the past 12 months, have you had a flu shot? A flu shot is usually given in the fall and protects against influenza for the flu season.” Beginning in September 2003, respondents were asked about influenza vaccination by nasal spray (sometimes called by the brand name FluMist™) during the past 12 months, in addition to the question regarding the flu shot. Starting with 2005 data, receipt of nasal spray or flu shot was included in the calculation of influenza vaccination estimates.

² Estimates are age-adjusted to the year 2000 standard population using four age groups: 18–49 years, 50–64 years, 65–74 years, and 75 years and over. See Appendix II, Age adjustment.

³ Includes all other races not shown separately, unknown disability status, and unknown poverty level in 1989.

⁴ The race groups white, black, American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, and 2 or more races include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Starting with 1999 data, race-specific estimates are tabulated according to the 1997 Revisions to the Standards for Federal Data on Race and Ethnicity and are not strictly comparable with estimates for earlier years. The five single-race categories plus multiple-race categories shown in the table conform to the 1997 Standards. Starting with 1999 data, race-specific estimates are for persons who reported only one racial group; the category 2 or more races includes persons who reported more than one racial group. Prior to 1999, data were tabulated according to the 1977 Standards with four racial groups and the Asian only category included Native Hawaiian or Other Pacific Islander. Estimates for single-race categories prior to 1999 included persons who reported one race or, if they reported more than one race, identified one race as best representing their race. Starting with 2003 data, race responses of other race and unspecified multiple race were treated as missing, and then race was imputed if these were the only race responses. Almost all persons with a race response of other race were of Hispanic origin. See Appendix II, Hispanic origin; Race.

⁵ Percent of poverty level is based on family income and family size and composition using U.S. Census Bureau poverty thresholds. Poverty level was unknown for 11% of persons 18 years and over in 1989. Missing family income data were imputed for 1997 and beyond. See Appendix II, Family Income; Poverty; Table VII.

⁶ Any basic actions difficulty or complex activity limitation is defined as having one or more of the following limitations or difficulties: movement difficulty, emotional difficulty, sensory (seeing or hearing) difficulty, cognitive difficulty, self-care (ADL or IADL) limitation, social limitation, or work limitation. For more information, see Appendix II, Basic actions difficulty; Complex activity limitation. Starting with 2007 data, the hearing question, a component of the basic actions difficulty measure, was revised. Consequently, data prior to 2007 are not comparable with data for 2007 and beyond. For more information on the impact of the revised hearing question, see Appendix II, Hearing trouble.

⁷ MSA is metropolitan statistical area. Starting with 2006 data, MSA status is determined using 2000 census data and the 2000 standards for defining MSAs. For data prior to 2006, see Appendix II, Metropolitan statistical area (MSA) for the applicable standards.

NOTES: In 2000, the Advisory Committee on Immunization Practices (ACIP) of the Centers for Disease Control and Prevention (CDC) recommended universal influenza vaccination for persons 50 years and over. Medicare reimbursement for the costs of the vaccine and its administration began in 1993. Currently, ACIP recommends vaccination of all children age 6 months to 18 years, adults age 50 and over, and persons at high risk. See <http://www.cdc.gov/flu/professionals/acip/index.htm> for more information. Standard errors for selected years are available in the spreadsheet version of this table. Available from: <http://www.cdc.gov/nchs/hus.htm>. Data for additional years are available. See Appendix III.

SOURCE: CDC/NCHS, National Health Interview Survey. Data are from the Immunization Supplement (1981), the Health Promotion and Disease Prevention Supplement (1991), and the Year 2000 Supplement (1993–1995). Starting in 1997, data are from the sample adult questionnaire.