

**TABLE: Self-reported influenza vaccination coverage trends 1989 - 2007 among adults by age group, risk group, race/ethnicity, health-care worker status, and pregnancy status, United States, National Health Interview Survey (NHIS)**

Characteristics	Survey Year															
	1989	1991	1993	1994	1995	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
<b>Age Group</b>																
18-49	3.4±0.2 (54664)	6.1±0.4 (26900)	10.2±0.6 (12954)	12.1±0.7 (11993)	13.1±0.7 (10757)	14.3±0.5 (22328)	15.5±0.6 (19546)	16.4±0.7 (18232)	17.1±0.7 (19409)	15.1±0.6 (20031)	16.3±0.7 (18427)	16.8±0.7 (18033)	17.9±0.7 (18039)	10.4±0.5 (17653)	15.5±0.8 (13861)	17.7±0.8 (13030)
50-64	10.6±0.6 (15655)	15.0±1.0 (7618)	23.0±1.6 (3620)	25.6±1.6 (3443)	27.0±1.8 (3000)	31.9±1.4 (6513)	33.1±1.4 (6194)	34.1±1.3 (6110)	34.6±1.5 (6403)	32.1±1.3 (6804)	34.0±1.3 (6424)	36.8±1.4 (6666)	35.9±1.4 (6933)	22.9±1.1 (7251)	33.1±1.5 (5471)	36.2±1.7 (5408)
≥65	30.4±1.1 (14244)	41.7±1.6 (8453)	52.0±1.6 (4198)	55.3±1.8 (3971)	58.2±1.8 (3442)	63.2±1.4 (6878)	63.3±1.4 (6257)	65.7±1.5 (5887)	64.3±1.4 (6091)	63.0±1.4 (6046)	65.6±1.5 (5757)	65.5±1.4 (5662)	64.6±1.4 (5922)	59.6±1.5 (5940)	64.1±1.8 (4573)	66.4±1.6 (4474)
<b>Age by Risk Status</b>																
18-49																
High Risk	N/A	N/A	N/A	N/A	N/A	20.7±1.6 (3263)	22.7±1.8 (2758)	22.6±1.9 (2505)	24.7±2.0 (2676)	20.9±1.7 (3099)	23.1±2.0 (2482)	24.2±2.1 (2341)	26.0±2.1 (2555)	18.1±1.7 (2589)	24.5±2.5 (1872)	27.2±2.7 (1670)
Not High Risk	N/A	N/A	N/A	N/A	N/A	16.1±0.6 (23292)	14.4±0.6 (16673)	15.4±0.8 (15649)	16.0±0.7 (16627)	14.0±0.6 (16814)	15.3±0.7 (15891)	15.8±0.7 (15654)	16.6±0.7 (15442)	9.1±0.5 (15031)	14.1±0.8 (11954)	16.3±0.8 (11338)
50-64																
High Risk	N/A	N/A	N/A	N/A	N/A	40.5±2.6 (2003)	43.4±2.6 (1826)	45.0±2.7 (1775)	43.9±2.5 (1920)	40.9±2.3 (2147)	43.6±2.4 (1969)	46.3±2.6 (2006)	45.5±2.5 (2104)	33.9±2.2 (2352)	44.4±3.1 (1705)	46.0±3.1 (1641)
Not High Risk	N/A	N/A	N/A	N/A	N/A	28.2±1.6 (4416)	28.9±1.6 (4289)	29.7±1.5 (4274)	30.6±1.7 (4421)	28.2±1.6 (4568)	29.8±1.5 (4431)	32.7±1.6 (4637)	32.1±1.6 (4807)	17.8±1.2 (4888)	28.2±1.6 (3745)	32.3±1.9 (3749)
<b>Age by Race/Ethnicity</b>																
18-49																
White Not Hispanic	3.3±0.2 (40196)	5.6±0.5 (19655)	10.0±0.7 (9525)	12.4±0.8 (8715)	12.9±0.9 (6962)	15.1±0.7 (13831)	16.1±0.8 (12162)	17.1±0.9 (11249)	18.1±0.9 (11739)	15.5±0.8 (12100)	16.9±0.8 (11032)	18.0±0.9 (10725)	19.8±0.9 (10533)	11.1±0.6 (10306)	16.6±1.0 (7312)	19.0±1.1 (6905)
Black Not Hispanic	3.9±0.5 (7523)	8.1±1.2 (3726)	10.8±1.7 (1720)	10.0±1.9 (1551)	15.6±2.4 (1394)	13.2±1.3 (3313)	13.1±1.6 (2735)	15.5±1.8 (2688)	14.0±1.3 (2902)	15.0±1.8 (2882)	15.7±1.7 (2691)	16.9±1.6 (2582)	14.3±1.8 (2720)	9.8±1.4 (2594)	14.8±1.9 (2468)	14.6±1.9 (2182)
Hispanic	3.9±0.6 (4653)	6.8±1.2 (2472)	9.1±2.2 (1068)	10.8±2.2 (1123)	11.1±1.7 (1900)	10.3±1.1 (4294)	13.1±1.3 (3884)	12.9±1.6 (3583)	13.4±1.4 (3970)	11.9±1.2 (4161)	12.4±1.2 (3898)	11.8±1.3 (3960)	11.6±1.2 (4015)	7.8±1.0 (4005)	11.0±1.3 (3108)	13.9±1.6 (3004)
API	2.8±1.1 (1392)	7.5±2.2 (695)	11.3±2.8 (417)	14.9±3.0 (369)	14.8±4.7 (312)	14.4±3.5 (713)	17.5±3.4 (594)	17.7±4.1 (517)	21.1±3.5 (607)	17.4±2.9 (675)	19.7±3.4 (633)	18.1±3.9 (370)	21.5±4.9 (370)	9.0±3.1 (380)	20.2±4.1 (574)	20.5±4.3 (505)
50-64																
White Not Hispanic	11.1±0.7 (12252)	15.4±1.1 (6031)	23.8±1.8 (2892)	26.8±1.8 (2696)	28.4±2.1 (2208)	33.8±1.7 (4612)	35.0±1.6 (4511)	35.8±1.5 (4412)	37.0±1.7 (4539)	34.6±1.6 (4825)	35.8±1.5 (4654)	38.8±1.6 (4758)	38.3±1.6 (4848)	24.5±1.3 (5105)	34.8±1.7 (3754)	38.2±2.1 (3661)
Black Not Hispanic	8.5±1.5 (2060)	11.4±2.6 (1012)	15.0±3.2 (458)	17.5±4.0 (445)	19.8±4.4 (349)	22.5±3.1 (899)	24.7±3.6 (811)	27.3±3.8 (766)	23.8±3.0 (878)	23.2±3.9 (966)	28.0±3.5 (785)	28.4±3.3 (876)	26.0±3.4 (931)	19.9±3.0 (997)	28.2±3.9 (818)	29.1±3.6 (827)
Hispanic	7.7±2.6 (856)	14.3±3.4 (362)	19.1±7.3 (178)	22.7±7.6 (194)	23.8±5.2 (348)	22.8±3.4 (809)	24.1±4.2 (693)	26.0±3.4 (774)	22.3±3.5 (783)	22.1±3.4 (821)	25.7±3.8 (790)	27.3±3.7 (847)	27.7±3.6 (916)	15.4±2.7 (891)	25.0±3.8 (647)	27.0±4.2 (659)
API	*	16.1±8.8 (142)	33.6±10.2 (54)	22.3±11.6 (58)	27.0±15.9 (54)	33.6±8.5 (140)	31.2±8.3 (132)	28.2±8.3 (115)	35.5±9.6 (148)	20.6±7.8 (134)	31.0±8.5 (151)	31.7±10.7 (78)	33.7±9.7 (113)	12.7±6.6 (121)	27.7±9.4 (130)	31.4±10.5 (127)
≥65																
White Not Hispanic	32.1±1.2 (11871)	43.4±1.7 (7144)	54.0±1.7 (3585)	58.1±1.9 (3333)	60.7±2.0 (2761)	65.8±1.5 (5481)	65.6±1.5 (4934)	67.9±1.6 (4581)	66.6±1.6 (4744)	65.4±1.5 (4691)	68.6±1.6 (4485)	68.7±1.4 (4401)	67.3±1.5 (4562)	63.2±1.6 (4609)	67.2±2.1 (3267)	69.0±1.9 (3227)
Black Not Hispanic	17.8±2.3 (1606)	27.5±4.1 (904)	32.6±4.9 (423)	39.0±5.9 (414)	39.9±5.6 (361)	44.8±4.4 (774)	45.8±4.4 (667)	49.7±4.4 (642)	48.0±4.5 (678)	48.1±4.5 (662)	49.6±4.5 (626)	48.0±4.6 (609)	45.4±4.4 (647)	39.7±4.2 (669)	46.5±4.5 (661)	55.4±4.6 (594)
Hispanic	23.8±4.8 (464)	34.0±8.6 (259)	47.3±12.8 (121)	37.9±8.1 (145)	49.9±7.8 (245)	52.7±5.9 (520)	50.3±5.1 (532)	55.1±5.1 (543)	55.7±5.0 (566)	51.9±5.2 (567)	48.5±5.0 (527)	45.4±5.2 (528)	54.6±5.2 (584)	41.7±5.0 (511)	44.8±5.9 (410)	52.1±5.9 (449)
API	19.4±8.5 (123)	30.1±9.2 (74)	54.7±18.1 (30)	43.1±22.1 (35)	50.9±15.8 (50)	51.2±11.2 (80)	67.1±10.6 (93)	71.7±9.4 (87)	60.1±11.0 (82)	57.5±11.6 (89)	57.8±11.1 (96)	63.6±15.5 (58)	52.7±16.8 (54)	56.1±14.1 (68)	61.4±11.2 (106)	62.7±11.3 (103)

**18-49 High Risk by Race/Ethnicity**

White Not Hispanic	N/A	N/A	N/A	N/A	N/A	22.3±1.9 (2153)	22.8±2.2 (1812)	22.4±2.3 (1640)	25.2±2.5 (1759)	21.0±2.0 (2013)	23.0±2.4 (1591)	24.9±2.5 (1466)	26.6±2.6 (1584)	18.4±2.2 (1633)	24.8±3.1 (1078)	29.0±3.5 (956)
Black Not Hispanic	N/A	N/A	N/A	N/A	N/A	17.3±3.5 (519)	22.1±4.8 (452)	20.4±5.2 (401)	22.6±4.3 (426)	20.0±4.0 (496)	23.9±5.2 (410)	24.3±5.4 (378)	22.8±4.8 (424)	15.9±3.8 (427)	23.6±5.5 (370)	19.6±5.5 (302)
Hispanic	N/A	N/A	N/A	N/A	N/A	12.6±3.2 (498)	22.1±5.0 (434)	24.2±5.2 (396)	22.7±4.3 (410)	19.2±3.8 (493)	21.2±4.8 (394)	20.0±4.8 (433)	21.2±4.9 (468)	19.4±4.4 (452)	20.6±5.0 (332)	24.6±5.7 (327)
API	N/A	N/A	N/A	N/A	N/A	*	*	*	*	25.5±14.2 (56)	29.5±15.5 (48)	*	44.7±20.2 (30)	*	39.5±17.3 (47)	*

**50-64 High Risk by Race/Ethnicity**

White Not Hispanic	N/A	N/A	N/A	N/A	N/A	41.8±3.1 (1359)	44.8±3.0 (1294)	47.1±3.1 (1234)	46.1±3.0 (1282)	43.8±2.8 (1478)	45.2±2.7 (1382)	47.9±3.0 (1406)	47.9±3.0 (1421)	35.4±2.6 (1649)	45.2±3.7 (1137)	46.7±3.7 (1044)
Black Not Hispanic	N/A	N/A	N/A	N/A	N/A	34.4±5.8 (332)	35.3±7.4 (271)	34.1±7.2 (243)	35.5±6.0 (344)	30.4±5.4 (359)	38.1±7.5 (281)	39.7±6.6 (285)	33.9±6.4 (329)	32.2±6.1 (350)	43.5±6.3 (298)	44.6±6.6 (310)
Hispanic	N/A	N/A	N/A	N/A	N/A	33.1±6.5 (253)	38.3±8.0 (211)	38.1±7.0 (248)	34.5±8.0 (242)	28.0±7.1 (258)	34.6±8.2 (244)	39.7±7.2 (270)	38.5±6.6 (274)	24.5±5.6 (290)	42.3±8.6 (207)	38.6±7.4 (216)
API	N/A	N/A	N/A	N/A	N/A	45.1±21.1 (30)	46.1±18.5 (33)	*	*	*	46.6±18.7 (41)	*	38.8±17.0 (34)	*	*	*

**Age by Diabetes Status**

<b>18-49</b>																
With Diabetes	N/A	N/A	N/A	N/A	N/A	25.1±4.7 (472)	31.2±5.2 (434)	32.7±5.5 (419)	32.5±5.3 (483)	28.6±4.3 (542)	31.9±5.3 (486)	36.4±5.6 (461)	34.0±4.6 (553)	29.5±4.7 (571)	35.0±5.4 (470)	30.0±5.4 (406)
Without Diabetes	N/A	N/A	N/A	N/A	N/A	14.1±0.5 (21627)	15.1±0.6 (18981)	16.0±0.7 (17724)	16.8±0.7 (18803)	14.7±0.6 (19374)	15.9±0.7 (17925)	16.4±0.7 (17567)	17.4±0.7 (17477)	9.8±0.5 (17073)	14.9±0.8 (13381)	17.4±0.8 (12619)
<b>50-64</b>																
With Diabetes	N/A	N/A	N/A	N/A	N/A	43.2±4.6 (671)	47.4±4.8 (604)	50.9±4.6 (621)	46.6±4.2 (678)	47.7±4.2 (765)	46.8±4.4 (744)	51.6±4.0 (770)	48.9±3.7 (835)	40.3±3.5 (936)	51.0±5.0 (716)	45.4±4.7 (717)
Without Diabetes	N/A	N/A	N/A	N/A	N/A	30.8±1.4 (5731)	31.5±1.4 (5494)	32.1±1.3 (5410)	33.1±1.6 (5647)	30.1±1.4 (5938)	32.4±1.3 (5670)	35.0±1.5 (5891)	34.3±1.5 (6090)	20.5±1.1 (6313)	30.6±1.5 (4746)	34.9±1.8 (4687)

**Age by Asthma Status**

<b>18-49</b>																
With Asthma	N/A	N/A	N/A	N/A	N/A	23.2±3.1 (901)	21.5±3.5 (762)	23.3±3.7 (703)	28.1±3.9 (734)	26.6±3.3 (880)	23.9±3.2 (763)	28.9±4.3 (675)	28.4±4.0 (667)	21.5±3.4 (728)	24.6±4.4 (534)	30.4±5.3 (528)
Without Asthma	N/A	N/A	N/A	N/A	N/A	13.9±0.5 (21414)	15.2±0.6 (18759)	16.1±0.7 (17516)	16.7±0.7 (18661)	14.6±0.6 (19131)	14.6±0.6 (19131)	16.4±0.7 (17345)	17.5±0.7 (17357)	9.9±0.5 (16911)	15.2±0.8 (13314)	17.2±0.8 (12504)
<b>50-64</b>																
With Asthma	N/A	N/A	N/A	N/A	N/A	46.0±6.7 (250)	55.2±6.7 (257)	50.3±7.8 (226)	55.1±7.3 (247)	41.9±6.6 (279)	51.0±6.7 (263)	47.9±7.0 (275)	52.4±6.4 (292)	40.2±6.3 (310)	46.8±7.8 (258)	57.9±7.6 (228)
Without Asthma	N/A	N/A	N/A	N/A	N/A	31.3±1.5 (6248)	32.2±1.4 (5919)	33.5±1.3 (5875)	33.8±1.6 (6145)	31.8±1.3 (6514)	31.8±1.3 (6514)	36.3±1.4 (6376)	35.3±1.4 (6624)	22.2±1.1 (6931)	32.5±1.5 (5205)	35.4±1.8 (5173)

**HCW Status**

Health-Care Workers	10.0±0.9 (4849)	16.7±1.7 (2646)	25.7±2.5 (1387)	31.4±2.0 (1292)	29.5±2.0 (1153)	34.0±2.1 (2387)	37.0±2.5 (2129)	36.4±2.6 (2013)	37.6±2.4 (2165)	36.1±2.5 (2270)	38.4±2.5 (2066)	40.1±3.5 (2146)	41.9±2.5 (2031)	32.9±2.1 (2143)	41.7±3.2 (1586)	45.3±3.0 (1643)
Other Workers	4.6±0.2 (49545)	7.7±0.4 (23526)	12.3±0.7 (11319)	13.8±0.8 (10535)	14.9±0.8 (9571)	17.3±0.6 (19715)	18.0±0.7 (17769)	19.1±0.7 (16821)	20.3±0.7 (17879)	18.1±0.6 (18826)	27.2±0.6 (18826)	20.9±0.8 (16500)	19.4±0.8 (16216)	10.2±0.5 (16181)	17.2±0.8 (12636)	19.8±0.9 (11910)

**Pregnancy Status**

Pregnant	N/A	N/A	N/A	N/A	N/A	11.1±4.6 (372)	8.4±3.2 (335)	7.6±3.3 (332)	10.0±3.4 (337)	10.4±3.6 (294)	12.4±3.9 (319)	12.8±4.4 (315)	12.9±5.0 (263)	15.6±5.0 (303)	13.8±4.9 (240)	15.3±4.9 (254)
Not Pregnant	N/A	N/A	N/A	N/A	N/A	11.9±0.8 (8515)	14.3±0.9 (7239)	14.4±1.0 (6992)	15.3±1.0 (7406)	13.5±0.9 (7391)	15.2±1.1 (6956)	15.8±1.1 (6775)	17.6±1.2 (6657)	10.5±0.9 (6521)	15.5±1.2 (5189)	17.1±1.3 (4874)

Table cell entries are % reporting influenza vaccination in the past 12 months, ± the 95% confidence interval half-width (SE), with the unweighted sample size (n). An asterisk (\*) indicates the estimate was unreliable due to the n being less than 30 or the SE relative to the estimate was greater than 0.3 (n<30 or RSE>0.3). N/A (not available) indicates the years when the characteristic was not included in the survey. Nasal spray was included starting with 2006.