TABLE: Self-reported influenza vaccination coverage trends 1989 - 2008 among adults by age group, risk group, race/ethnicity, health-care worker status, and pregnancy status, United States, National Health Interview Survey (NHIS)

									Survey \	Year							
Characteristics	1989	1991	1993	1994	1995	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Age Group																	
18-49	3.4 ± 0.2	6.1 ± 0.4	10.2 ± 0.6	12.1 ± 0.7	13.1 ± 0.7	14.3 ± 0.5	15.5±0.6	16.4 ± 0.7	17.1 ± 0.7	15.1±0.6	16.3 ± 0.7	16.8 ± 0.7	17.9 ± 0.7	10.4 ± 0.5	15.5 ± 0.8	17.7±0.8	20.0±0.9
	(54664)	(26900)	(12954)	(11993)	(10757)	(22328)	(19546)	(18232)	(19409)	(20031)	(18427)	(18033)	(18039)	(17653)	(13861)	(13030)	(11856)
50-64	10.6 ± 0.6	15.0 ± 1.0	23.0 ± 1.6	25.6 ± 1.6	27.0 ± 1.8	31.9±1.4	33.1±1.4	34.1±1.3	34.6±1.5	32.1±1.3	34.0 ± 1.3	36.8 ± 1.4	35.9 ± 1.4	22.9 ± 1.1	33.1±1.5	36.2±1.7	39.5±1.6
	(15655)	(7618)	(3620)	(3443)	(3000)	(6513)	(6194)	(6110)	(6403)	(6804)	(6424)	(6666)	(6933)	(7251)	(5471)	(5408)	(5185)
≥65	30.4±1.1	41.7±1.6	52.0±1.6	55.3±1.8	58.2±1.8	63.2±1.4	63.3±1.4	65.7±1.5	64.3±1.4	63.0±1.4	65.6±1.5	65.5±1.4	64.6±1.4	59.6±1.5	64.1±1.8	66.4±1.6	67.0±1.8
	(14244)	(8453)	(4198)	(3971)	(3442)	(6878)	(6257)	(5887)	(6091)	(6046)	(5757)	(5662)	(5922)	(5940)	(4573)	(4474)	(4358)
Age by Risk Status																	
18-49 High Risk	N/A	N/A	N/A	N/A	N/A	20.7±1.6	22.7±1.8	22.6±1.9	24.7±2.0	20.9±1.7	23.1±2.0	24.2±2.1	26.0±2.1	18.1±1.7	24.5±2.5	27.2±2.7	29.8±2.6
riigirixisk	14/71	14/74	14/71	14/74	14/71	(3263)	(2758)	(2505)	(2676)	(3099)	(2482)	(2341)	(2555)	(2589)	(1872)	(1670)	(1713)
Not High Risk	N/A	N/A	N/A	N/A	N/A	16.1±0.6	14.4±0.6	15.4±0.8	16.0±0.7	14.0±0.6	15.3±0.7	15.8±0.7	16.6±0.7	9.1±0.5	14.1±0.8	16.3±0.8	18.4±1.0
	1,1,1	1,1,1	1,111	1,1,1	1771	(23292)	(16673)	(15649)	(16627)	(16814)	(15891)	(15654)	(15442)	(15031)	(11954)	(11338)	(10125)
50-64						(,	(/	(/	(/	, ,	(,	(/	(-)	(,	(/	(/	(/
High Risk	N/A	N/A	N/A	N/A	N/A	40.5±2.6	43.4±2.6	45.0±2.7	43.9±2.5	40.9±2.3	43.6±2.4	46.3±2.6	45.5±2.5	33.9 ± 2.2	44.4±3.1	46.0±3.1	49.6±3.1
						(2003)	(1826)	(1775)	(1920)	(2147)	(1969)	(2006)	(2104)	(2352)	(1705)	(1641)	(1629)
Not High Risk	N/A	N/A	N/A	N/A	N/A	28.2 ± 1.6	28.9 ± 1.6	29.7±1.5	30.6±1.7	28.2 ± 1.6	29.8±1.5	32.7±1.6	32.1±1.6	17.8±1.2	28.2 ± 1.6	32.3±1.9	35.2±1.9
						(4416)	(4289)	(4274)	(4421)	(4568)	(4431)	(4637)	(4807)	(4888)	(3745)	(3749)	(3538)
Age by Race/Ethnicity 18-49																	
White Not Hispanic	3.3 ± 0.2	5.6 ± 0.5	10.0 ± 0.7	12.4 ± 0.8	12.9 ± 0.9	15.1±0.7	16.1±0.8	17.1±0.9	18.1 ± 0.9	15.5 ± 0.8	16.9 ± 0.8	18.0 ± 0.9	19.8 ± 0.9	11.1±0.6	16.6±1.0	19.0±1.1	21.6±1.2
	(40196)	(19655)	(9525)	(8715)	(6962)	(13831)	(12162)	(11249)	(11739)	(12100)	(11032)	(10725)	(10533)	(10306)	(7312)	(6905)	(6455)
Black Not Hispanic	3.9 ± 0.5	8.1 ± 1.2	10.8 ± 1.7	10.0±1.9	15.6 ± 2.4	13.2±1.3	13.1±1.6	15.5±1.8	14.0 ± 1.3	15.0 ± 1.8	15.7±1.7	16.9±1.6	14.3 ± 1.8	9.8 ± 1.4	14.8±1.9	14.6±1.9	17.4 ± 2.2
	(7523)	(3726)	(1720)	(1551)	(1394)	(3313)	(2735)	(2688)	(2902)	(2882)	(2691)	(2582)	(2720)	(2594)	(2468)	(2182)	(1923)
Hispanic	3.9 ± 0.6	6.8 ± 1.2	9.1 ± 2.2	10.8 ± 2.2	11.1±1.7	10.3±1.1	13.1±1.3	12.9±1.6	13.4 ± 1.4	11.9±1.2	12.4±1.2	11.8±1.3	11.6±1.2	7.8 ± 1.0	11.0±1.3	13.9±1.6	14.9±1.7
	(4653)	(2472)	(1068)	(1123)	(1900)	(4294)	(3884)	(3583)	(3970)	(4161)	(3898)	(3960)	(4015)	(4005)	(3108)	(3004)	(2559)
API	2.8±1.1	7.5±2.2	11.3±2.8	14.9±3.0	14.8±4.7	14.4±3.5	17.5±3.4	17.7±4.1	21.1±3.5	17.4±2.9	19.7±3.4	18.1±3.9	21.5±4.9	9.0±3.1	20.2±4.1	20.5±4.3	23.8±5.1
50.04	(1392)	(695)	(417)	(369)	(312)	(713)	(594)	(517)	(607)	(675)	(633)	(370)	(370)	(380)	(574)	(505)	(534)
50-64 White Not Hispanic	11.1±0.7	15.4±1.1	23.8±1.8	26.8±1.8	28.4±2.1	33.8±1.7	35.0±1.6	35.8±1.5	37.0±1.7	34.6±1.6	35.8±1.5	38.8±1.6	38.3±1.6	24.5±1.3	34.8±1.7	38.2±2.1	41.5±1.9
writte Not Hispanic	(12252)	(6031)	(2892)	(2696)	(2208)	(4612)	(4511)	(4412)	(4539)	(4825)	(4654)	(4758)	(4848)	(5105)	(3754)	(3661)	(3490)
Black Not Hispanic	8.5±1.5	11.4±2.6	15.0±3.2	17.5±4.0	19.8±4.4	22.5±3.1	24.7±3.6	27.3±3.8	23.8±3.0	23.2±3.9	28.0±3.5	28.4±3.3	26.0±3.4	19.9±3.0	28.2±3.9	29.1±3.6	35.8±4.1
Black Not I hopamo	(2060)	(1012)	(458)	(445)	(349)	(899)	(811)	(766)	(878)	(966)	(785)	(876)	(931)	(997)	(818)	(827)	(808)
Hispanic	7.7±2.6	14.3±3.4	19.1±7.3	22.7±7.6	23.8±5.2	22.8±3.4	24.1±4.2	26.0±3.4	22.3±3.5	22.1±3.4	25.7±3.8	27.3±3.7	27.7±3.6	15.4±2.7	25.0±3.8	27.0±4.2	29.4±4.2
	(856)	(362)	(178)	(194)	(348)	(809)	(693)	(774)	(783)	(821)	(790)	(847)	(916)	(891)	(647)	(659)	(617)
API	*	16.1±8.8	33.6±10.2	22.3±11.6	27.0±15.9	33.6±8.5	31.2±8.3	28.2±8.3	35.5±9.6	20.6±7.8	31.0±8.5	31.7±10.7	33.7±9.7	12.7±6.6	27.7±9.4	31.4±10.5	33.0±9.5
		(142)	(54)	(58)	(54)	(140)	(132)	(115)	(148)	(134)	(151)	(78)	(113)	(121)	(130)	(127)	(128)
≥65																	
White Not Hispanic	32.1±1.2	43.4±1.7	54.0±1.7	58.1±1.9	60.7±2.0	65.8±1.5	65.6±1.5	67.9±1.6	66.6±1.6	65.4±1.5	68.6±1.6	68.7±1.4	67.3±1.5	63.2±1.6	67.2±2.1	69.0±1.9	69.8±2.0
5	(11871)	(7144)	(3585)	(3333)	(2761)	(5481)	(4934)	(4581)	(4744)	(4691)	(4485)	(4401)	(4562)	(4609)	(3267)	(3227)	(3113)
Black Not Hispanic	17.8±2.3	27.5±4.1	32.6±4.9	39.0±5.9	39.9±5.6	44.8±4.4	45.8±4.4	49.7±4.4	48.0±4.5	48.1±4.5	49.6±4.5	48.0±4.6	45.4±4.4	39.7±4.2	46.5±4.5	55.4±4.6	50.6±4.7
10-	(1606)	(904)	(423)	(414)	(361)	(774)	(667)	(642)	(678)	(662)	(626)	(609)	(647)	(669)	(661)	(594)	(583)
Hispanic	23.8±4.8 (464)	34.0±8.6 (259)	47.3±12.8 (121)	37.9±8.1	49.9±7.8	52.7±5.9	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	52.1±5.9	54.5±5.6
API	(464) 19.4±8.5	(259) 30.1±9.2	(121) 54.7±18.1	(145) 43.1±22.1	(245) 50.9±15.8	(520) 51.2±11.2	(532) 67.1±10.6	(543) 71.7±9.4	(506) 60.1±11.0	(567) 57.5±11.6		(528) 63.6±15.5	(584) 52.7±16.8	(511) 56.1±14.1	(410) 61.4±11.2	(449) 62.7±11.3	(438)
API	19.4±8.5 (123)	30.1±9.2 (74)	54./±18.1 (30)	43.1±22.1 (35)	50.9±15.8 (50)	51.2±11.2 (80)	67.1±10.6 (93)	/1./±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)	58.8±12.1 (101)
-	(123)	(14)	(30)	(33)	(50)	(00)	(23)	(07)	(02)	(07)	(20)	(30)	(34)	(00)	(100)	(103)	(101)

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)	30.4±3.2 (1058)
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)	29.8±6.7 (304)
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)	23.7±5.9 (281)
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)	*	32.4±18.6 (34)
50-64 High Risk by Race	/Ethnicity									(30)	(40)		(30)		(47)		(34)
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)	49.1±3.8 (1048)
Black Not Hispanic	N/A	N/A	N/A	N/A	N/A	34.4±5.8	35.3±7.4	34.1±7.2	35.5±6.0	30.4±5.4 (359)	38.1±7.5 (281)	39.7±6.6	33.9±6.4	32.2±6.1 (350)	43.5±6.3 (298)	44.6±6.6	48.7±7.4
Hispanic	N/A	N/A	N/A	N/A	N/A	(332) 33.1±6.5	(271) 38.3±8.0	(243) 38.1±7.0	(344) 34.5±8.0	28.0±7.1	34.6±8.2	(285) 39.7±7.2	(329) 38.5±6.6	24.5±5.6	42.3±8.6	(310) 38.6±7.4	(288) 47.7±9.3
API	N/A	N/A	N/A	N/A	N/A	(253) 45.1±21.1	(211) 46.1±18.5	(248)	(242)	(258)	(244) 46.6±18.7	(270)	(274) 38.8±17.0	(290)	(207)	(216)	(214) 57.0±21.2
A b Di-b-t Ot-t						(30)	(33)				(41)		(34)				(31)
Age by Diabetes Status 18-49																	
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)	37.0±6.0 (388)
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)	19.5±0.9 (11465)
50-64						(=====,	(,)	()	()	(-,-,	((=,=,,	()	(-,-,-)	()	()	()
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)	53.7±4.6 (737)
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)	37.3±1.7 (4443)
Age by Asthma Status																	
18-49	27/4	27/4	27/1	27/4	27/4	22.2.2.4	24.5.2.5	22.2.2.5	20.4.2.0	26622	22.0.22	200 4 2	20.4.4.0	24.5.2.4	21 - 11	20 4 7 2	20.7.40
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)	30.7±4.9 (468)
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)	19.6±0.9 (11378)
50-64																	
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)	50.8±8.1 (231)
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)	39.1±1.6 (4950)
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)	48.0±2.9 (1608)
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)	22.2±1.0 (10798)
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)	19.1±7.1 (187)
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)	20.0±1.4 (4379)
						(0313)	(1437)	(0774)	(7400)	(1371)	(0230)	(0773)	(0037)	(0341)	(3107)	(4074)	(4377)

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 asterix (*) 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.