

Human Papillomavirus (HPV) vaccination coverage (≥ 1 dose) among adolescents aged 13-17 years in the United States, parental report of provider recommendation status, and access-to-care variables--NIS-Teen 2017

	Sample size	Prevalence of provider recommendation for HPV by parental report	Well-child visit at age 11-12 years reported by provider	Physician contacts within past year (in past 12 months) by parental report			
				None	Once	Two-Three	Four or more
				% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)
National	19,200	75.3 (74.1-76.5)	48.4 (47.1-49.8)	15.2 (14.2-16.3)	29.6 (28.3-30.9)	35.5 (34.2-36.8)	19.7 (18.7-20.7)
Mississippi	309	62.8 (56.3-68.8)	28.9 (23.5-35.0)	12.9 (9.1-18.0)	22.5 (17.4-28.6)	39.0 (32.7-45.8)	25.5 (20.2-31.8)
Kansas	313	63.0 (56.3-69.3)	35.7 (29.4-42.4)	15.8 (11.3-21.6)	24.0 (18.9-30.0)	36.6 (30.3-43.4)	23.6 (18.3-29.9)
Wyoming	333	63.9 (57.5-69.9)	37.9 (31.8-44.4)	18.6 (13.7-24.7)	33.6 (27.8-40.1)	26.0 (21.1-31.6)	21.7 (17.0-27.4)
Arkansas	327	67.0 (60.5-72.9)	30.0 (24.4-36.3)	9.7 (6.1-15.1)	23.1 (18.0-29.2)	42.6 (36.2-49.2)	24.6 (19.3-30.8)
Louisiana	319	69.6 (63.2-75.3)	43.4 (37.0-49.9)	14.9 (10.7-20.4)	26.3 (21.0-32.5)	32.7 (27.0-39.1)	26.0 (20.6-32.3)
Texas	2,046	69.8 (66.3-73.0)	46.5 (43.0-50.1)	16.6 (14.0-19.6)	30.2 (26.9-33.7)	34.1 (30.8-37.5)	19.1 (16.6-21.9)
Missouri	309	70.0 (63.4-75.9)	32.5 (26.7-38.8)	13.7 (9.6-19.2)	28.4 (22.6-35.0)	37.6 (31.5-44.1)	20.3 (15.5-26.0)
Oklahoma	305	70.2 (63.7-75.9)	36.2 (30.0-42.8)	16.0 (11.7-21.6)	29.5 (23.5-36.3)	31.0 (25.3-37.4)	23.5 (18.3-29.6)
Alabama	332	70.4 (64.3-75.8)	50.7 (44.3-57.0)	12.0 (8.3-17.1)	24.9 (19.7-30.9)	38.7 (32.6-45.1)	24.4 (19.5-30.2)
Florida	388	71.1 (64.5-76.9)	41.9 (35.4-48.8)	16.5 (12.1-22.1)	31.8 (25.6-38.7)	28.1 (22.4-34.6)	23.6 (18.3-30.0)
Indiana	304	71.4 (64.4-77.5)	45.0 (38.2-51.9)	14.7 (10.3-20.5)	33.8 (27.4-40.9)	28.6 (22.8-35.4)	22.8 (17.7-28.9)
Nevada	312	71.9 (65.3-77.6)	34.3 (28.4-40.7)	27.8 (21.8-34.7)	27.3 (21.6-33.9)	29.3 (23.6-35.7)	15.6 (11.6-20.6)
California	278	72.1 (64.7-78.6)	46.6 (39.3-54.1)	21.2 (15.6-28.2)	33.9 (27.0-41.5)	32.5 (25.9-40.0)	12.4 (8.5-17.7)
Kentucky	346	73.2 (67.3-78.4)	50.0 (43.7-56.3)	10.5 (7.2-15.2)	24.4 (19.2-30.4)	36.1 (30.3-42.3)	29.0 (23.7-34.9)
Georgia	309	73.7 (66.5-79.8)	52.0 (44.8-59.1)	13.9 (9.7-19.7)	26.1 (20.4-32.8)	41.0 (34.1-48.3)	18.9 (14.0-24.9)
South Dakota	309	75.0 (68.7-80.3)	34.6 (28.6-41.2)	18.2 (13.6-23.9)	28.9 (23.1-35.5)	33.4 (27.4-40.0)	19.5 (14.7-25.3)
Tennessee	307	75.0 (68.4-80.7)	49.8 (42.8-56.8)	20.5 (15.0-27.3)	27.0 (21.0-34.0)	39.1 (32.5-46.1)	13.5 (9.8-18.3)
West Virginia	321	75.3 (69.1-80.6)	41.9 (35.6-48.4)	8.8 (5.5-14.0)	26.0 (20.7-32.2)	36.3 (30.3-42.8)	28.8 (23.2-35.1)
New Jersey	337	75.4 (69.5-80.5)	57.0 (50.5-63.2)	10.1 (6.6-15.1)	32.6 (26.8-39.0)	35.7 (29.8-42.0)	21.6 (17.0-27.1)
North Carolina	300	75.4 (68.9-80.9)	50.7 (43.7-57.6)	17.2 (12.5-23.2)	29.7 (23.6-36.6)	32.1 (25.9-38.9)	21.0 (15.9-27.1)
Illinois	642	75.6 (71.2-79.6)	51.7 (47.0-56.5)	13.5 (10.5-17.3)	28.6 (24.3-33.3)	39.2 (34.7-44.0)	18.6 (13.4-22.5)
Utah	324	75.8 (70.0-80.8)	46.6 (40.2-53.1)	18.0 (13.4-23.7)	31.6 (25.8-38.2)	32.6 (26.9-38.9)	17.7 (13.4-23.1)
South Carolina	303	75.9 (69.3-81.5)	54.5 (47.4-61.4)	11.6 (8.0-16.6)	27.6 (21.6-34.5)	33.6 (27.2-40.7)	27.2 (21.5-33.7)
Nebraska	293	76.2 (69.9-81.5)	56.0 (49.1-62.7)	16.9 (11.9-23.4)	24.0 (18.6-30.4)	38.3 (31.9-45.1)	20.8 (16.1-26.4)
Arizona	311	76.6 (70.0-82.1)	43.7 (37.0-50.6)	16.7 (12.0-22.7)	29.7 (23.7-36.6)	36.3 (30.1-43.0)	17.3 (12.5-23.4)
Hawaii	271	77.0 (70.5-82.5)	51.1 (44.1-57.9)	13.0 (8.7-18.8)	35.9 (29.3-43.2)	31.8 (25.8-38.4)	19.3 (14.7-24.9)
Alaska	318	77.1 (71.0-82.2)	43.2 (36.9-49.7)	21.7 (16.5-27.8)	33.4 (27.5-39.9)	27.6 (22.3-33.6)	17.3 (13.2-22.4)
Ohio	381	77.1 (71.8-81.7)	44.3 (38.4-50.2)	9.7 (6.9-13.4)	28.3 (23.2-33.9)	36.5 (30.9-42.6)	25.5 (20.6-31.0)
New Mexico	335	77.5 (71.7-82.4)	44.8 (38.6-51.1)	17.9 (13.2-23.7)	26.9 (21.6-32.9)	35.1 (29.3-41.5)	20.1 (15.6-25.4)
Iowa	312	77.8 (72.2-82.5)	45.0 (38.7-51.4)	11.2 (7.4-16.4)	24.5 (19.5-30.3)	42.1 (35.9-48.5)	22.3 (17.4-28.0)
Virginia	398	78.2 (70.2-84.5)	49.9 (41.9-58.0)	18.0 (12.3-25.6)	28.9 (22.0-36.8)	34.1 (26.8-42.3)	18.9 (13.6-25.7)
Minnesota	322	78.3 (72.1-83.5)	43.3 (37.0-49.9)	18.4 (13.8-24.1)	26.9 (21.3-33.3)	33.3 (27.4-39.7)	21.4 (16.5-27.3)
New York	574	78.7 (74.4-82.5)	53.2 (48.2-58.1)	9.6 (6.9-13.1)	28.5 (24.0-33.4)	41.5 (36.6-46.5)	20.5 (16.9-24.6)
Montana	308	78.9 (72.7-84.0)	40.2 (33.8-47.0)	13.7 (9.7-19.1)	31.6 (25.5-38.4)	39.2 (32.7-46.0)	15.5 (11.4-20.8)
Oregon	333	79.0 (73.1-84.0)	47.2 (41.0-53.6)	15.7 (11.3-21.4)	30.9 (25.2-37.3)	34.7 (29.0-40.9)	18.7 (14.5-23.9)
Washington	314	79.8 (73.8-84.8)	49.9 (43.4-56.4)	18.1 (13.2-24.3)	31.4 (25.5-38.0)	33.1 (27.3-39.4)	17.4 (13.2-22.7)
Colorado	322	79.9 (73.9-84.8)	42.4 (36.1-49.0)	13.9 (9.9-19.3)	30.6 (24.9-36.9)	32.4 (26.5-39.0)	23.1 (18.0-29.0)
Pennsylvania	774	80.6 (75.8-84.7)	67.0 (61.6-72.0)	13.2 (9.9-17.4)	28.5 (23.9-33.6)	38.0 (32.9-43.4)	20.3 (16.2-25.1)
Idaho	316	80.9 (75.1-85.6)	47.8 (40.9-54.8)	13.5 (9.0-19.6)	32.0 (25.7-38.9)	34.8 (28.6-41.6)	19.8 (14.7-26.0)
Wisconsin	300	81.1 (75.1-86.0)	34.8 (28.8-41.4)	13.9 (9.9-19.1)	32.0 (26.0-38.8)	35.8 (29.6-42.5)	18.3 (13.8-23.8)
North Dakota	354	81.7 (76.3-86.1)	22.3 (17.8-27.5)	16.7 (12.4-22.1)	33.0 (27.4-39.0)	34.5 (29.0-40.4)	15.8 (12.0-20.5)
New Hampshire	305	82.9 (77.1-87.4)	54.1 (47.6-60.6)	9.1 (6.0-13.6)	38.4 (32.1-45.1)	29.8 (24.5-35.8)	22.7 (17.6-28.7)
Connecticut	311	83.4 (77.3-88.1)	68.9 (62.1-74.9)	14.3 (9.6-20.6)	27.3 (21.9-33.4)	35.9 (29.7-42.7)	22.5 (17.3-28.7)
Michigan	303	84.7 (79.1-89.0)	54.4 (47.7-60.9)	14.9 (10.8-20.3)	25.4 (19.8-31.8)	42.4 (36.0-49.1)	17.3 (13.1-22.5)
Maryland	434	84.9 (78.3-89.7)	56.4 (48.5-63.9)	12.7 (8.0-19.5)	34.0 (26.9-42.1)	38.8 (31.6-46.6)	14.4 (10.1-20.2)
District of Columbia	291	85.0 (78.0-90.1)	56.9 (48.9-64.5)	9.7 (5.6-16.2)	34.8 (27.6-42.8)	44.6 (36.9-52.5)	11.0 (7.4-15.9)
Maine	317	86.0 (80.6-90.0)	60.5 (54.0-66.5)	13.7 (9.7-19.0)	29.2 (23.7-35.4)	38.3 (32.4-44.5)	18.8 (14.5-23.9)
Delaware	323	86.6 (81.0-90.7)	63.4 (56.5-69.8)	12.2 (8.3-17.5)	23.5 (18.1-29.8)	39.6 (33.1-46.4)	24.8 (19.4-31.1)
Massachusetts	380	87.8 (83.0-91.4)	67.5 (61.5-73.1)	7.3 (4.9-10.7)	26.4 (21.4-32.2)	44.8 (38.8-50.9)	21.5 (17.0-26.9)
Rhode Island	288	89.1 (84.2-92.6)	74.8 (68.7-80.1)	8.4 (5.4-12.7)	35.9 (29.5-42.8)	34.4 (28.3-41.2)	21.3 (16.4-27.2)
Vermont	339	90.5 (86.1-93.7)	65.1 (58.7-70.9)	8.6 (5.5-13.4)	29.9 (24.4-36.1)	35.4 (29.5-41.8)	26.1 (21.0-31.9)
median		77.0	47.2	13.9	28.9	35.7	20.5
range		62.8 - 90.5	22.3 - 74.8	7.3 - 27.8	22.5 - 38.4	26.0 - 44.8	11.0 - 29.0

* Coverage difference between with and without provider recommendation.

Note: About 9.4 % (weighted percentage; n = 1,749) reported Don't Know / Refused / Missing to HPV Provider Recommendation.

Human Papillomavirus (HPV) vaccination coverage (≥ 1 dose) among adolescents aged 13-17 years in the United States, parental report of provider recommendation status, and access-to-care variables--NIS-Teen 2017

	Sample size	HPV vaccination coverage				
		Overall	With provider recommendation	Without provider recommendation	Coverage difference*	
		N	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)
National	19,200	66.0 (64.8-67.2)	73.2 (71.8-74.5)	44.1 (41.1-47.1)	29.1 (25.8-32.4)	0.00
Mississippi	309	49.1 (42.5-55.7)	60.4 (51.6-68.6)	30.0 (21.5-40.2)	30.4 (17.6-43.2)	0.00
Kansas	313	51.8 (45.1-58.5)	66.7 (58.4-74.1)	26.4 (17.7-37.5)	40.3 (27.6-53.1)	0.00
Wyoming	333	46.9 (40.6-53.4)	64.4 (56.6-71.5)	16.0 (10.0-24.7)	48.4 (38.0-58.8)	0.00
Arkansas	327	60.0 (53.4-66.3)	67.2 (59.2-74.3)	45.5 (34.3-57.1)	21.7 (7.8-35.7)	0.00
Louisiana	319	68.4 (62.4-74.0)	78.3 (71.9-83.6)	45.9 (34.4-57.8)	32.4 (19.1-45.8)	0.00
Texas	2,046	60.0 (56.5-63.5)	72.0 (68.1-75.6)	32.4 (26.5-38.8)	39.6 (32.4-46.8)	0.00
Missouri	309	58.1 (51.5-64.6)	66.7 (59.0-73.7)	38.1 (26.5-51.3)	28.7 (14.0-43.3)	0.00
Oklahoma	305	59.6 (52.8-66.0)	70.4 (62.3-77.4)	34.1 (23.5-46.6)	36.3 (22.3-50.3)	0.00
Alabama	332	57.4 (51.0-63.5)	68.3 (60.8-74.9)	31.4 (21.6-43.0)	36.9 (24.0-49.9)	0.00
Florida	388	60.0 (53.1-66.5)	67.3 (59.0-74.7)	41.9 (29.8-55.2)	25.4 (10.2-40.6)	0.00
Indiana	304	60.7 (53.9-67.1)	67.9 (60.3-74.8)	42.6 (29.2-57.3)	25.3 (9.2-41.5)	0.00
Nevada	312	67.0 (60.2-73.2)	77.1 (69.6-83.1)	41.3 (29.6-54.0)	35.8 (21.7-49.9)	0.00
California	278	70.2 (63.2-76.3)	72.9 (64.8-79.8)	63.1 (48.9-75.3)	9.9 (-5.6-25.4)	0.21
Kentucky	346	49.1 (42.8-55.4)	58.9 (51.3-66.1)	22.3 (13.5-34.4)	36.6 (23.8-49.5)	0.00
Georgia	309	65.4 (58.3-71.9)	72.5 (64.5-79.2)	45.6 (31.1-60.9)	26.8 (9.7-43.9)	0.00
South Dakota	309	64.9 (58.2-71.1)	71.0 (63.4-77.7)	46.6 (33.5-60.2)	24.5 (9.0-39.9)	0.00
Tennessee	307	55.5 (48.4-62.4)	62.5 (54.4-70.0)	34.2 (22.1-48.8)	28.3 (12.6-44.0)	0.00
West Virginia	321	61.3 (54.7-67.5)	70.5 (63.2-76.9)	33.1 (21.7-46.8)	37.4 (22.9-51.9)	0.00
New Jersey	337	64.4 (58.1-70.2)	75.2 (68.5-80.8)	31.3 (20.6-44.4)	43.9 (30.3-57.5)	0.00
North Carolina	300	66.0 (59.2-72.2)	71.8 (64.1-78.5)	48.0 (34.4-62.0)	23.8 (7.9-39.7)	0.00
Illinois	642	66.5 (61.8-71.0)	74.5 (69.3-79.1)	41.8 (32.4-51.9)	32.7 (21.6-43.7)	0.00
Utah	324	62.1 (55.7-68.2)	72.9 (65.6-79.1)	28.5 (18.4-41.3)	44.4 (31.0-57.8)	0.00
South Carolina	303	60.8 (53.7-67.4)	73.6 (66.2-79.9)	20.4 (11.8-33.0)	53.2 (40.5-65.8)	0.00
Nebraska	293	70.1 (63.5-76.0)	74.4 (67.0-80.6)	56.5 (42.6-69.4)	17.9 (2.7-33.2)	0.02
Arizona	311	64.4 (57.5-70.8)	70.0 (62.3-76.8)	46.1 (31.8-61.1)	23.9 (7.1-40.7)	0.01
Hawaii	271	69.4 (62.5-75.6)	79.5 (72.3-85.2)	35.5 (23.1-50.2)	44.0 (28.7-59.3)	0.00
Alaska	318	66.0 (59.7-71.8)	73.9 (67.3-79.6)	39.4 (26.6-53.8)	34.5 (19.3-49.8)	0.00
Ohio	381	65.1 (59.3-70.5)	73.6 (67.4-79.0)	36.5 (25.8-48.8)	37.1 (24.0-50.1)	0.00
New Mexico	335	66.3 (60.0-72.1)	75.9 (69.3-81.4)	33.4 (22.4-46.5)	42.5 (28.8-56.2)	0.00
Iowa	312	72.7 (66.8-77.9)	79.2 (72.9-84.4)	50.0 (37.4-62.6)	29.2 (15.1-43.3)	0.00
Virginia	398	75.9 (68.6-82.0)	81.0 (73.4-86.7)	57.9 (39.4-74.4)	23.1 (3.7-42.5)	0.02
Minnesota	322	70.0 (63.5-75.8)	75.6 (68.5-81.5)	49.8 (35.0-64.6)	25.8 (9.2-42.4)	0.00
New York	574	69.8 (65.0-74.2)	74.0 (68.6-78.8)	54.2 (43.6-64.5)	19.8 (8.1-31.6)	0.00
Montana	308	66.3 (59.6-72.5)	75.7 (68.8-81.5)	31.3 (19.5-46.0)	44.4 (29.5-59.4)	0.00
Oregon	333	71.8 (65.8-77.1)	78.5 (72.1-83.8)	46.6 (32.3-61.5)	31.9 (15.8-48.0)	0.00
Washington	314	72.1 (65.7-77.7)	77.4 (70.5-83.0)	51.4 (36.3-66.2)	26.0 (9.3-42.6)	0.00
Colorado	322	73.0 (66.8-78.3)	77.3 (70.7-82.8)	55.6 (40.4-69.7)	21.8 (5.5-38.0)	0.01
Pennsylvania	774	68.6 (63.2-73.5)	75.5 (69.8-80.5)	39.6 (28.0-52.5)	35.9 (22.3-49.5)	0.00
Idaho	316	64.6 (57.7-71.0)	71.1 (63.3-77.8)	37.2 (24.0-52.6)	33.9 (17.5-50.3)	0.00
Wisconsin	300	69.7 (63.3-75.5)	75.6 (68.8-81.2)	44.7 (29.6-60.8)	30.9 (13.6-48.1)	0.00
North Dakota	354	72.5 (66.8-77.6)	77.3 (71.3-82.4)	51.0 (36.4-65.5)	26.3 (10.3-42.2)	0.00
New Hampshire	305	74.9 (69.0-80.0)	82.4 (76.7-86.9)	38.7 (24.0-55.9)	43.7 (26.4-60.9)	0.00
Connecticut	311	72.3 (66.0-77.9)	77.5 (71.0-82.9)	46.5 (29.6-64.2)	31.0 (12.0-49.9)	0.00
Michigan	303	68.8 (62.5-74.5)	70.7 (63.8-76.7)	58.7 (41.4-74.1)	12.0 (-6.1-30.1)	0.19
Maryland	434	71.1 (63.7-77.5)	78.4 (71.0-84.3)	30.0 (15.1-50.9)	48.3 (28.7-68.0)	0.00
District of Columbia	291	92.1 (87.6-95.1)	92.8 (87.7-95.8)	88.6 (74.5-95.4)	4.2 (-6.5-14.8)	0.44
Maine	317	75.2 (69.2-80.4)	78.5 (72.2-83.6)	55.4 (37.5-71.9)	23.1 (4.3-41.9)	0.02
Delaware	323	76.9 (70.7-82.1)	79.0 (72.4-84.3)	63.7 (44.6-79.2)	15.3 (-3.6-34.2)	0.11
Massachusetts	380	83.5 (78.7-87.5)	85.1 (80.1-89.1)	72.0 (54.5-84.7)	13.1 (-3.0-29.2)	0.11
Rhode Island	288	90.1 (84.5-93.9)	91.0 (85.0-94.7)	83.2 (60.0-94.3)	7.8 (-9.6-25.1)	0.38
Vermont	339	80.0 (74.4-84.6)	83.4 (77.8-87.8)	47.4 (28.3-67.3)	35.9 (14.7-57.1)	0.00
median		66.5	74.4	42.6	30.9	
range		46.9 - 92.1	58.9 - 92.8	16.0 - 88.6	4.2 - 53.2	

* Coverage difference between with and without provider recommendation.

Note: About 9.4 % (weighted percentage; n = 1,749) reported Don't Know / Refused / Missing to HPV Provider Recommendation.