

SUPPLEMENTARY TABLE 5. Human Papillomavirus (HPV) vaccination coverage (≥ 1 dose) among adolescents aged 13-17 years in the United States, by area and parental report of provider recommendation status,—National Immunization Survey-Teen (NIS-Teen), United States, 2018.

	Sample size	Prevalence of provider recommendation for HPV vaccination by parental report*	HPV vaccination coverage (Overall)	HPV Coverage among adolescents with provider recommendation	HPV Coverage among adolescents without provider recommendation	Coverage difference†
	N	% (95% CI) §	% (95% CI) §	% (95% CI) §	% (95% CI) §	% (95% CI) §
National	17,252	77.5 (76.4-78.7)	68.4 (67.1-69.7)	74.7 (73.3-76.0)	46.7 (43.8-49.6)	28.0 (24.8-31.2) [¶]
Massachusetts	305	90.7 (85.5-94.1)	87.5 (81.6-91.8)	88.6 (82.2-92.9)	76.9 (54.5-90.3)	11.7 (-7.2-30.6)
Dist. of Columbia	268	90.4 (84.8-94.1)	85.8 (79.0-90.6)	86.1 (78.7-91.2)	82.7 (63.2-93.0)	3.4 (-13-19.3)
Montana	266	86.6 (81.1-90.7)	68.2 (61.2-74.5)	73.7 (66.2-80.0)	32.8 (17.3-53.1)	40.9 (21.1-60.7) [¶]
Vermont	296	86.1 (80.8-90.1)	79.0 (73.4-83.6)	83.1 (77.5-87.6)	53.2 (35.9-69.7)	30.0 (11.6-48.3) [¶]
Maryland	362	86.0 (80.1-90.3)	74.4 (67.6-80.2)	74.6 (67.1-80.9)	73.2 (56.3-85.2)	1.5 (-15-17.7)
Colorado	261	85.4 (78.8-90.2)	79.6 (73.0-84.9)	81.5 (74.4-86.9)	68.5 (47.9-83.7)	12.9 (-6.6-32.5)
New Hampshire	283	84.7 (77.7-89.8)	77.8 (70.8-83.4)	79.4 (72.2-85.1)	68.6 (45.8-84.9)	10.9 (-11-32.3)
Delaware	285	84.5 (78.6-89.0)	74.5 (67.6-80.5)	78.5 (71.3-84.4)	52.7 (34.8-69.9)	25.8 (6.4-45.3) [¶]
Maine	296	84.4 (78.5-88.9)	64.2 (57.0-70.8)	69.8 (62.3-76.5)	33.6 (19.9-50.7)	36.3 (18.9-53.6) [¶]
Connecticut	278	83.8 (77.6-88.6)	70.2 (63.1-76.4)	75.5 (68.3-81.6)	42.3 (26.2-60.2)	33.2 (14.3-52.1) [¶]
Pennsylvania	604	83.6 (77.6-88.2)	72.7 (66.1-78.4)	75.8 (68.6-81.8)	56.7 (39.7-72.3)	19.1 (1.0-37.3) [¶]
Philadelphia	214	80.8 (73.6-86.3)	89.5 (83.6-93.4)	89.1 (82.4-93.5)	91.1 (73.9-97.4)	-2.0 (-14-9.8)
Minnesota	259	83.6 (76.3-88.9)	76.3 (69.0-82.3)	80.4 (73.2-86.0)	55.3 (34.5-74.3)	25.1 (3.2-47.1) [¶]
Michigan	298	83.5 (77.4-88.2)	71.9 (65.3-77.7)	75.2 (68.2-81.1)	55.3 (37.4-71.9)	19.9 (0.8-39.1) [¶]
Iowa	263	82.5 (76.5-87.2)	75.3 (68.8-80.8)	81.7 (75.0-86.9)	45.1 (29.6-61.7)	36.6 (18.9-54.2) [¶]
Rhode Island	312	82.1 (76.5-86.6)	89.5 (84.5-93.0)	90.9 (85.8-94.3)	82.9 (65.2-92.6)	8.1 (-6.0-22.1)
North Dakota	271	81.8 (75.4-86.8)	75.8 (68.8-81.6)	79.5 (71.9-85.5)	59.0 (41.5-74.5)	20.5 (2.1-38.9) [¶]
Hawaii	289	81.6 (75.3-86.6)	78.9 (72.7-84.0)	84.2 (77.9-88.9)	55.4 (38.5-71.2)	28.7 (10.9-46.6) [¶]
Virginia	307	81.6 (72.6-88.1)	68.8 (59.1-77.0)	73.2 (62.6-81.7)	49.0 (27.4-71.0)	24.2 (-1.1-49.5)
New York	471	81.0 (76.3-84.9)	68.1 (62.3-73.4)	71.7 (65.2-77.5)	52.7 (40.2-64.9)	19.0 (5.0-33.0) [¶]
New York City	219	74.5 (66.5-81.1)	75.2 (67.2-81.7)	79.7 (71.0-86.4)	61.8 (44.6-76.5)	17.9 (-0.3-36.2)
California	321	80.2 (73.6-85.5)	71.5 (64.1-77.9)	75.1 (66.9-81.8)	57.0 (40.4-72.2)	18.0 (-0.1-36.1)
Wisconsin	308	80.1 (74.4-84.8)	70.4 (64.4-75.9)	77.9 (71.5-83.2)	40.5 (27.1-55.4)	37.4 (21.7-53.1) [¶]
Nebraska	270	79.6 (72.7-85.2)	75.8 (68.8-81.7)	80.3 (73.0-85.9)	58.6 (40.7-74.4)	21.7 (3.0-40.4) [¶]
Oregon	276	79.3 (72.6-84.6)	75.7 (69.0-81.4)	83.2 (76.7-88.2)	46.9 (31.5-63.0)	36.3 (19.0-53.6) [¶]
Kansas	281	77.6 (71.1-83.0)	62.0 (55.0-68.4)	69.5 (61.8-76.3)	35.8 (22.6-51.5)	33.7 (17.2-50.2) [¶]
West Virginia	313	77.5 (71.9-82.3)	62.8 (56.6-68.7)	69.6 (62.6-75.8)	39.7 (27.7-53.0)	29.9 (15.4-44.4) [¶]
Alaska	356	77.3 (71.3-82.3)	67.2 (61.2-72.7)	71.0 (64.4-76.9)	54.2 (40.5-67.4)	16.8 (1.7-32.0) [¶]
Washington	253	77.3 (69.6-83.6)	72.3 (64.8-78.8)	75.9 (68.0-82.4)	60.1 (41.7-76.0)	15.9 (-3.4-35.1)
South Dakota	318	77.1 (71.2-82.2)	68.7 (62.4-74.3)	77.1 (70.5-82.6)	40.2 (27.7-54.3)	36.9 (22.0-51.8) [¶]
Indiana	270	77.0 (70.8-82.2)	65.8 (59.1-72.0)	71.9 (64.3-78.5)	45.4 (32.1-59.4)	26.5 (10.8-42.2) [¶]
Tennessee	264	76.7 (70.2-82.2)	62.1 (54.9-68.8)	72.4 (64.3-79.2)	28.2 (16.6-43.6)	44.2 (28.6-59.8) [¶]
Illinois	650	76.4 (72.2-80.1)	70.5 (66.1-74.6)	79.0 (74.2-83.0)	43.3 (34.2-53.0)	35.6 (25.1-46.1) [¶]
Chicago	171	79.8 (70.1-86.9)	83.8 (74.2-90.3)	87.4 (77.8-93.2)	69.7 (43.4-87.3)	17.7 (-6.7-42.1)
Ohio	308	76.1 (69.4-81.7)	69.3 (62.9-75.0)	76.2 (69.7-81.6)	47.4 (32.9-62.4)	28.8 (12.4-45.1) [¶]

Arizona	261	76.0 (69.0-81.8)	68.0 (60.9-74.4)	74.6 (66.9-81.1)	47.3 (32.5-62.5)	27.3 (10.3-44.4) [¶]
New Mexico	273	75.5 (69.0-81.0)	73.0 (66.2-78.8)	79.0 (71.4-85.1)	54.2 (40.4-67.4)	24.8 (9.4-40.3) [¶]
New Jersey	325	75.5 (68.5-81.3)	66.0 (59.0-72.4)	69.8 (62.1-76.6)	54.2 (38.8-68.8)	15.7 (-1.4-32.8)
North Carolina	311	75.4 (68.7-81.0)	69.9 (63.1-75.9)	76.2 (69.1-82.2)	50.5 (36.3-64.7)	25.7 (9.7-41.7) [¶]
Missouri	305	75.3 (68.7-80.9)	62.8 (56.0-69.1)	73.8 (66.7-79.9)	29.1 (18.1-43.4)	44.7 (30.2-59.1) [¶]
Utah	286	75.1 (68.3-80.9)	66.5 (59.7-72.7)	70.5 (62.8-77.1)	54.6 (40.2-68.3)	15.9 (-0.2-32.0)
Louisiana	259	75.0 (67.9-81.0)	71.0 (64.2-77.0)	73.6 (65.8-80.2)	63.3 (48.9-75.6)	10.3 (-5.1-25.8)
Florida	306	74.8 (67.7-80.8)	63.0 (55.9-69.6)	71.3 (63.5-77.9)	38.6 (24.7-54.6)	32.7 (15.6-49.7) [¶]
Nevada	307	74.2 (68.1-79.4)	67.3 (60.9-73.1)	74.5 (67.1-80.7)	46.7 (34.6-59.1)	27.8 (13.6-42.1) [¶]
Kentucky	249	73.5 (66.7-79.4)	58.4 (51.3-65.1)	68.4 (60.5-75.4)	30.4 (19.1-44.8)	38.0 (22.9-53.1) [¶]
Texas	1,902	72.9 (69.5-76.0)	60.0 (56.3-63.6)	69.8 (65.6-73.7)	33.7 (27.7-40.3)	36.1 (28.6-43.6) [¶]
Bexar County	278	76.9 (70.1-82.6)	64.2 (56.9-70.8)	73.6 (65.8-80.2)	32.7 (20.6-47.7)	40.9 (25.3-56.5) [¶]
Houston	167	67.5 (58.3-75.4)	72.0 (63.1-79.4)	76.6 (66.3-84.4)	62.5 (45.5-76.9)	14.0 (-4.6-32.6)
Hidalgo County	278	74.1 (66.6-80.5)	66.3 (58.1-73.6)	69.1 (59.3-77.4)	58.2 (43.0-72.1)	10.9 (-6.7-28.4)
Tarrant County	339	75.7 (69.5-80.9)	64.3 (57.7-70.4)	76.3 (69.4-82.1)	26.8 (16.5-40.4)	49.6 (35.9-63.2) [¶]
South Carolina	299	72.7 (65.9-78.7)	65.0 (58.2-71.3)	75.1 (67.8-81.2)	38.2 (25.5-52.9)	36.9 (21.3-52.4) [¶]
Idaho	265	71.4 (64.6-77.3)	67.2 (60.2-73.5)	76.5 (68.4-83.0)	44.0 (31.6-57.2)	32.5 (17.5-47.5) [¶]
Alabama	299	70.8 (63.8-76.8)	64.9 (58.0-71.3)	73.7 (65.9-80.3)	43.7 (30.9-57.3)	30.1 (14.8-45.4) [¶]
Georgia	330	70.1 (63.2-76.2)	68.7 (62.3-74.5)	76.8 (70.1-82.4)	49.7 (36.5-63.0)	27.1 (12.2-41.9) [¶]
Wyoming	232	70.1 (62.8-76.6)	54.5 (46.8-62.0)	66.9 (58.0-74.8)	25.3 (15.6-38.3)	41.6 (27.4-55.8) [¶]
Oklahoma	339	68.2 (62.0-73.8)	61.0 (54.6-67.0)	76.0 (68.6-82.1)	28.7 (19.8-39.7)	47.3 (35.2-59.4) [¶]
Arkansas	287	63.5 (56.4-70.1)	60.4 (53.4-67.0)	66.9 (58.4-74.4)	49.1 (37.4-61.0)	17.8 (3.3-32.2) [¶]
Mississippi	255	59.5 (52.2-66.5)	52.2 (45.0-59.4)	61.4 (52.2-69.9)	38.8 (28.1-50.6)	22.7 (8.2-37.2) [¶]
Territories						
Guam	272	67.8 (60.6-74.2)	68.9 (61.9-75.2)	73.6 (65.3-80.5)	59.2 (45.8-71.4)	14.3 (-0.8-29.5)
Median		77.3	68.8	75.2	49.0	27.1
Range**		59.5 - 90.7	52.2 - 89.5	61.4 - 90.9	25.3 - 82.9	1.5 - 47.3

* Excludes 8.3 % (weighted percentage; n = 1,448) who reported Don't Know / Refused / Missing to HPV provider recommendation question.

† Coverage difference for parents with minus without provider recommendation.

§ Estimates with 95% CIs >20 might be unreliable.

¶ Statistically significant difference in coverage (p<0.05); reference group is parents who received a provider recommendation for HPV vaccine.

** Range excludes selected local areas and territories.