

SUPPLEMENTARY TABLE. Estimated vaccination coverage with selected vaccines and doses* among adolescents aged 13–17 years† (N = 18,788) by HHS region, state, selected local area, or territory — National Immunization Survey–Teen (NIS-Teen), United States, 2019

Region, state, local area	Vaccination coverage, %, and percent HPV UTD (95% CI) [§]			
	≥1 Tdap [¶]	≥1 MenACWY ^{**}	≥1 HPV ^{††}	HPV UTD ^{§§}
United States overall	90.2 (89.2-91.1)	88.9 (88.0-89.8) ¶¶	71.5 (70.1-72.8) ¶¶	54.2 (52.7-55.8) ¶¶
Region I	95.4 (93.5-96.8)	94.1 (92.2-95.5)	80.4 (77.3-83.2)	66.1 (62.2-69.8)
Connecticut	96.5 (93.1-98.3)	93.7 (88.5-96.6)	70.6 (63.5-76.8)	53.8 (46.4-61.0)
Maine	91.9 (87.8-94.7) ¶¶	89.1 (84.4-92.5)	65.1 (58.2-71.4)	52.6 (45.7-59.4)
Massachusetts	95.7 (91.1-98.0)	96.2 (92.7-98.1)	87.9 (82.3-91.8)	74.3 (67.0-80.4)
New Hampshire	94.2 (89.9-96.8)	86.0 (80.4-90.2)	75.1 (68.5-80.7)	63.2 (56.2-69.6)
Rhode Island	96.4 (93.7-97.9)	98.2 (96.5-99.1)	91.9 (87.4-95.0)	78.9 (72.5-84.2)
Vermont	94.3 (90.8-96.6)	93.6 (90.3-95.8)	82.0 (77.3-85.8)	63.6 (57.9-68.9)
Region II	91.9 (89.4-93.9)	93.5 (91.1-95.3)	69.6 (65.2-73.6)	55.2 (50.6-59.6)
New Jersey	89.0 (83.6-92.8)	90.6 (85.4-94.1)	67.1 (60.3-73.3)	51.4 (44.5-58.3)
New York	93.4 (90.5-95.4)	95.0 (92.3-96.8)	70.8 (65.1-76.0)	57.0 (51.1-62.7)
NY-City of New York	88.9 (83.4-92.8)	95.3 (92.2-97.1)	73.3 (65.7-79.6)	63.0 (55.4-70.1)
NY-Rest of State	96.2 (92.5-98.1)	94.8 (90.4-97.2)	69.3 (61.0-76.4)	53.2 (44.9-61.2)
Region III	91.5 (89.2-93.4)	91.7 (89.4-93.6)	76.3 (73.1-79.2) ¶¶	60.0 (56.4-63.4)
Delaware	89.7 (84.5-93.2)	89.0 (83.8-92.6)	75.4 (69.3-80.7)	59.2 (52.4-65.6)
Dist. of Columbia	86.0 (78.9-90.9)	88.7 (81.4-93.4)	86.8 (79.8-91.6)	75.5 (67.4-82.2)
Maryland	91.6 (87.1-94.6)	94.9 (91.4-97.0)	78.9 (72.9-83.8)	68.9 (62.5-74.6) ¶¶
Pennsylvania	93.8 (90.3-96.0)	94.0 (90.5-96.2)	77.0 (72.0-81.4)	60.1 (54.5-65.5)
PA-Philadelphia	92.9 (87.1-96.2)	93.4 (88.7-96.3)	90.0 (84.2-93.8)	77.5 (70.0-83.5)
PA-Rest of State	93.9 (89.9-96.3)	94.0 (90.0-96.5)	75.3 (69.7-80.2)	57.9 (51.6-63.9)
Virginia	89.1 (82.4-93.5)	86.7 (80.1-91.4)	75.2 (67.4-81.6)	55.2 (46.9-63.2)
West Virginia	89.4 (84.4-92.9)	91.0 (86.0-94.4)	64.7 (58.2-70.7)	47.4 (40.9-54.0)
Region IV	92.5 (90.9-93.9) ¶¶	86.4 (84.0-88.4) ¶¶	67.1 (64.1-70.1)	50.3 (47.1-53.5)
Alabama	91.8 (87.1-94.9)	86.8 (81.5-90.8)	65.6 (58.6-71.9)	47.3 (40.4-54.3)
Florida	95.6 (91.4-97.8) ¶¶	82.9 (75.7-88.3)	67.9 (59.6-75.2)	56.0 (47.4-64.2)
Georgia	92.5 (87.7-95.5)	95.5 (92.2-97.5)	65.9 (59.0-72.3)	49.7 (42.7-56.8)
Kentucky	89.2 (84.3-92.8)	90.6 (85.8-93.8)	74.4 (68.2-79.8) ¶¶	54.9 (48.2-61.4) ¶¶
Mississippi	90.4 (84.4-94.2)	60.3 (52.6-67.5)	49.5 (42.0-57.1)	30.5 (23.7-38.3)
North Carolina	92.0 (86.7-95.3)	93.2 (88.3-96.1) ¶¶	71.3 (64.4-77.3)	49.5 (42.6-56.5)
South Carolina	91.9 (87.9-94.7)	86.4 (81.2-90.4)	71.8 (65.4-77.4)	53.0 (46.0-59.9) ¶¶
Tennessee	89.1 (83.5-93.0)	79.3 (72.8-84.6)	61.9 (54.6-68.8)	43.0 (35.9-50.4)
Region V	91.4 (89.7-92.8)	91.8 (90.2-93.1)	71.2 (68.7-73.6)	53.6 (50.8-56.3)
Illinois	90.4 (86.8-93.2)	91.0 (87.7-93.5)	71.7 (66.8-76.1)	54.9 (49.8-59.8)
IL-City of Chicago	90.4 (82.0-95.2)	92.9 (86.0-96.5)	81.1 (71.5-88.0)	64.2 (53.6-73.6)
IL-Rest of State	90.4 (86.2-93.5)	90.6 (86.7-93.5)	69.7 (64.2-74.8)	52.9 (47.2-58.5)
Indiana	93.1 (88.2-96.0)	92.8 (87.9-95.8)	66.3 (59.4-72.5)	41.2 (34.6-48.1)
Michigan	89.2 (84.2-92.8)	95.4 (91.9-97.4)	73.7 (67.3-79.2)	59.4 (52.3-66.2)
Minnesota	90.0 (83.2-94.2)	86.9 (79.9-91.7)	73.8 (66.0-80.4)	56.8 (48.8-64.6)
Ohio	94.2 (90.7-96.4) ¶¶	91.9 (87.8-94.7) ¶¶	69.7 (63.3-75.5)	49.6 (42.7-56.4)
Wisconsin	90.7 (86.1-93.9)	90.6 (86.2-93.8)	72.2 (66.0-77.6)	60.5 (54.1-66.5)
Region VI	86.7 (84.7-88.5)	86.3 (84.3-88.1)	66.6 (63.9-69.1) ¶¶	49.6 (46.9-52.4) ¶¶
Arkansas	93.4 (89.3-96.0)	95.6 (92.5-97.4)	67.9 (61.5-73.6)	50.5 (43.9-57.2)
Louisiana	94.1 (89.9-96.7)	92.0 (87.4-95.0) ¶¶	73.9 (66.9-80.0)	59.5 (51.7-66.8) ¶¶
New Mexico	87.8 (83.3-91.2)	83.5 (78.2-87.6)	73.3 (67.4-78.4)	59.8 (53.7-65.7)
Oklahoma	88.0 (83.7-91.3)	77.3 (71.5-82.2)	65.6 (59.6-71.2)	41.8 (35.7-48.1)

Texas	84.8 (81.9-87.3)	85.9 (83.2-88.3)	65.1 (61.5-68.4) ¶¶	48.4 (44.9-52.0)
TX-Bexar County	83.8 (77.3-88.7)	87.4 (81.5-91.5)	67.2 (60.4-73.4)	47.5 (40.7-54.5)
TX-City of Houston	91.8 (85.7-95.4) ¶¶	92.0 (84.7-96.0)	79.9 (71.0-86.6)	57.8 (47.9-67.1)
TX-Dallas County	84.6 (78.8-89.1)	86.6 (80.6-91.0)	68.1 (60.9-74.4)	50.5 (43.1-57.8)
TX-El Paso County	89.1 (84.0-92.7)	93.5 (89.5-96.1)	83.9 (78.4-88.1)	63.7 (56.8-70.1)
TX-Rest of State	84.1 (80.3-87.3)	84.8 (81.1-87.9)	62.2 (57.6-66.6)	46.7 (42.1-51.3)
Region VII	88.3 (85.4-90.6)	86.1 (83.2-88.5) ¶¶	70.4 (66.8-73.8)	55.6 (51.7-59.5) ¶¶
Iowa	94.1 (90.6-96.3)	93.6 (89.8-96.1)	75.1 (69.1-80.3)	60.9 (54.4-67.1)
Kansas	91.9 (88.3-94.5)	80.7 (75.1-85.3)	65.9 (59.5-71.9)	49.5 (43.0-56.1)
Missouri	82.4 (76.2-87.2)	84.8 (78.9-89.2)	69.0 (61.9-75.4)	54.3 (46.8-61.7) ¶¶
Nebraska	91.2 (85.6-94.7)	86.3 (79.9-90.9)	73.9 (66.7-80.1)	60.5 (53.1-67.4)
Region VIII	90.0 (87.1-92.3)	86.7 (83.9-89.1)	74.4 (70.6-77.8)	55.8 (51.5-60.0)
Colorado	91.3 (85.8-94.8)	89.4 (84.0-93.1)	80.2 (73.1-85.8)	63.5 (55.3-71.0)
Montana	90.1 (85.1-93.5)	73.1 (66.6-78.8)	63.7 (56.8-70.0)	46.7 (40.0-53.5)
North Dakota	96.7 (94.5-98.1) ¶¶	95.8 (93.1-97.5)	88.8 (84.5-92.0) ¶¶	76.9 (70.9-82.0) ¶¶
South Dakota	90.0 (85.2-93.4)	86.2 (80.9-90.3)	73.6 (67.3-79.0)	61.2 (54.5-67.4) ¶¶
Utah	86.8 (80.7-91.3)	86.6 (80.8-90.9)	68.8 (61.6-75.2)	44.6 (37.6-51.9)
Wyoming	90.7 (85.9-94.0)	73.9 (67.9-79.2)	59.1 (52.6-65.3)	41.5 (35.3-48.0)
Region IX	86.9 (81.3-91.1)	88.8 (84.0-92.3)	77.2 (71.0-82.4)	56.5 (49.4-63.3)
Arizona	89.9 (85.7-93.0) ¶¶	87.2 (81.5-91.4)	71.8 (65.3-77.6)	56.9 (49.8-63.7)
California	86.3 (78.9-91.5)	89.4 (83.0-93.6)	78.7 (70.6-85.1)	56.4 (47.3-65.0)
Hawaii	83.4 (77.2-88.1)	82.5 (76.3-87.3)	79.4 (73.1-84.5)	66.0 (59.0-72.3)
Nevada	89.0 (83.6-92.8)	87.0 (81.2-91.2)	68.9 (61.8-75.1)	52.9 (45.7-60.0)
Region X	89.2 (86.4-91.4) ¶¶	84.5 (81.0-87.5)	71.4 (67.1-75.3)	54.0 (49.3-58.6)
Alaska	81.7 (76.6-85.9)	74.9 (69.5-79.5)	68.6 (63.0-73.6)	52.6 (46.9-58.2) ¶¶
Idaho	88.0 (82.5-91.9)	91.3 (86.9-94.3)	64.0 (56.8-70.7)	44.1 (37.2-51.2)
Oregon	90.2 (84.8-93.8)	85.0 (79.0-89.5)	74.6 (67.5-80.5)	60.8 (53.3-67.7)
Washington	89.8 (85.1-93.1) ¶¶	83.3 (77.1-88.1)	72.0 (64.9-78.2)	53.3 (45.4-61.1)
Range***	(81.7 -96.7)	(60.3 -98.2)	(49.5 -91.9)	(30.5 -78.9)
Territory				
Guam	78.7 (72.3-84.0)	73.2 (66.5-79.0)	63.3 (56.2-69.9)	43.8 (36.9-51.0)
Puerto Rico	86.9 (76.5-93.1)	93.5 (83.7-97.6)	75.7 (64.9-84.0)	58.4 (47.9-68.2)
U.S. Virgin Islands	79.2 (71.2-85.4)	75.0 (67.1-81.5)	48.8 (40.2-57.6)	34.6 (26.7-43.5)

Abbreviations: CI = confidence interval; HHS = U.S. Department of Health and Human Services; HPV = human papillomavirus; MenACWY = quadrivalent meningococcal conjugate vaccine; MMR = measles, mumps, rubella vaccine; Tdap = tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis vaccine; UTD = up-to-date.

* [Estimates for additional measures, including MMR, hepatitis B, and varicella vaccines are available at: http://www.cdc.gov/vaccines/vaxview/teenvaxview](http://www.cdc.gov/vaccines/vaxview/teenvaxview)

† Adolescents (N = 18,788) in the 2019 NIS-Teen were born January 2001 through February 2007.

§ Estimates with 95% confidence intervals >20 might not be reliable.

¶ ≥1 dose Tdap vaccine at age ≥10 years.

** ≥1 dose of MenACWY or meningococcal-unknown type vaccine.

†† HPV vaccine, nine-valent (9vHPV), quadrivalent (4vHPV), or bivalent (2vHPV) in females and males combined.

§§ HPV UTD includes those with ≥ 3 doses, and those with 2 doses when the first HPV vaccine dose was initiated prior to age 15 years and there was at least 5 months minus 4 days between the first and second dose. This update to the HPV recommendation occurred in December 2016.

¶¶ Statistically significant (p<0.05) percentage point increase from 2018.

*** Range excludes selected local areas and territories.