

SUPPLEMENTARY TABLE 3. Estimated vaccination coverage with selected vaccines and doses* among adolescents† aged 13–17 years by HHS Region, state, selected local area, or territory — National Immunization Survey–Teen (NIS-Teen), United States, 2018.

Region, state, local area	% (95% CI)§			
	All adolescents (N = 18,700)			
	≥1 Tdap¶	≥1 MenACWY**	≥1 HPV††	HPV UTD§§
United States overall	88.9 (88.0-89.7)	86.6 (85.6-87.5) ¶¶	68.1 (66.8-69.3) ¶¶	51.1 (49.8-52.5) ¶¶
Region I	92.9 (90.5-94.7)	92.4 (90.1-94.2)	79.0 (75.8-81.9)	63.4 (59.6-67.0)
Connecticut	95.4 (91.6-97.5)	92.1 (86.6-95.5)	70.5 (63.7-76.5)	53.1 (46.2-59.9)
Maine	85.8 (80.1-90.0)	83.1 (77.2-87.7)	65.0 (58.1-71.3) ***	50.7 (43.9-57.5)
Massachusetts	91.2 (86.1-94.6) ***	94.7 (90.2-97.2)	85.2 (79.1-89.8)	68.7 (61.6-75.0)
New Hampshire	97.5 (94.9-98.8)	86.2 (81.0-90.2)	77.4 (70.8-82.8)	67.4 (60.4-73.8)
Rhode Island	96.3 (93.2-98.0)	98.7 (96.9-99.4) ¶¶	89.3 (84.5-92.7)	78.1 (72.3-82.9)
Vermont	95.1 (91.8-97.1)	90.0 (85.9-93.1)	78.3 (73.0-82.8)	62.0 (55.8-67.9)
Region II	90.6 (88.2-92.6)	93.9 (91.7-95.6) ¶¶	66.6 (62.4-70.6)	54.4 (50.1-58.6)
New Jersey	88.4 (83.5-92.0)	91.9 (87.6-94.9)	65.4 (58.6-71.6)	48.5 (41.9-55.2)
New York	91.7 (88.7-94.0)	94.9 (92.0-96.8) ¶¶	67.3 (61.8-72.3)	57.3 (51.8-62.6)
NY-City of New York	88.5 (83.6-92.1)	93.9 (89.4-96.6)	72.1 (64.5-78.5)	58.3 (50.6-65.6)
NY-Rest of State	93.8 (89.6-96.4)	95.5 (91.2-97.8) ¶¶	64.1 (56.5-71.1)	56.7 (49.2-63.9)
Region III	89.6 (86.9-91.8)	89.1 (86.3-91.3)	70.9 (67.0-74.4)	54.9 (50.8-58.9)
Delaware	89.1 (83.9-92.8)	85.9 (79.8-90.4)	73.9 (67.1-79.7)	58.4 (51.3-65.2)
Dist. of Columbia	86.1 (79.5-90.8)	93.8 (88.8-96.7)	86.0 (79.5-90.6)	71.3 (63.6-78.0)
Maryland	88.4 (83.6-92.0)	91.8 (87.0-94.9)	74.7 (68.3-80.2)	58.1 (51.2-64.7)
Pennsylvania	90.0 (84.9-93.5)	94.3 (91.0-96.4)	72.0 (65.7-77.6)	54.1 (47.4-60.7)
PA-Philadelphia	90.1 (84.3-93.9)	93.0 (87.4-96.3)	89.8 (84.3-93.5)	71.5 (64.1-77.9)
PA-Rest of State	90.0 (84.1-93.8)	94.5 (90.7-96.7)	69.7 (62.6-76.0)	51.8 (44.3-59.2)
Virginia	90.3 (83.8-94.4)	79.7 (71.4-86.0)	67.2 (58.0-75.3)	54.9 (45.4-64.0)
West Virginia	87.9 (83.0-91.6)	88.7 (84.0-92.2)	61.3 (55.2-67.0)	42.9 (37.0-49.1)
Region IV	90.2 (88.5-91.7)	82.5 (80.3-84.5)	64.3 (61.6-66.9) ¶¶	46.7 (43.9-49.5)
Alabama	89.4 (84.0-93.2)	80.0 (74.2-84.8)	64.7 (58.1-70.7)	50.2 (43.4-56.9) ¶¶
Florida	90.1 (85.5-93.3)	76.3 (70.0-81.5)	64.1 (57.3-70.4)	46.5 (39.7-53.5)
Georgia	94.2 (90.7-96.4)	94.8 (91.4-97.0)	68.1 (61.8-73.8)	49.6 (43.1-56.1)
Kentucky	84.9 (79.0-89.3)	84.4 (78.3-89.0)	56.9 (50.0-63.5)	42.6 (35.9-49.5)
Mississippi	90.0 (84.8-93.6)	64.0 (57.2-70.3)	51.7 (44.9-58.5)	32.6 (26.4-39.5)
North Carolina	89.1 (84.3-92.6)	86.1 (80.8-90.1)	68.6 (62.2-74.5)	52.1 (45.4-58.7)
South Carolina	88.9 (84.1-92.3)	79.7 (74.0-84.4)	63.7 (57.0-69.8)	41.2 (34.7-47.9)
Tennessee	90.7 (86.2-93.8)	85.2 (79.7-89.4) ¶¶	62.3 (55.4-68.8)	44.4 (37.4-51.6)
Region V	90.5 (88.9-91.9)	89.8 (88.2-91.1)	70.0 (67.6-72.3) ¶¶	55.0 (52.4-57.6) ¶¶
Illinois	91.7 (88.9-93.9)	91.5 (88.8-93.6)	69.4 (65.2-73.4)	53.4 (48.9-57.9)
IL-City of Chicago	93.0 (85.5-96.8)	93.7 (88.2-96.7)	84.1 (75.3-90.2)	65.0 (54.8-73.9)
IL-Rest of State	91.5 (88.3-93.8)	91.0 (87.8-93.4)	66.3 (61.4-70.9)	51.0 (45.9-56.0)
Indiana	88.5 (83.4-92.3) ***	89.3 (84.8-92.6)	65.0 (58.6-70.9)	48.9 (42.3-55.7)
Michigan	93.8 (89.8-96.3)	95.9 (92.4-97.8)	72.5 (66.0-78.1)	55.0 (48.3-61.6)
Minnesota	90.7 (85.3-94.2)	88.9 (83.5-92.8)	76.7 (70.0-82.3)	58.8 (51.2-66.0) ¶¶
Ohio	89.1 (84.6-92.4)	85.2 (80.4-89.0)	68.3 (62.0-73.9)	58.2 (51.6-64.4) ¶¶

Wisconsin	87.2 (82.1-91.0)	85.8 (80.9-89.5)	69.8 (64.0-75.1)	55.7 (49.6-61.7)
Region VI	85.2 (83.1-87.0)	85.3 (83.3-87.0)	61.2 (58.5-63.8)	43.9 (41.3-46.5)
Arkansas	90.2 (85.4-93.5)	91.7 (86.9-94.8)	60.8 (54.1-67.1)	42.6 (36.0-49.5)
Louisiana	90.8 (85.3-94.4)	84.9 (78.8-89.5)	67.2 (60.3-73.4)	46.7 (39.5-54.1)
New Mexico	88.1 (83.2-91.7)	79.7 (73.5-84.7)	71.8 (65.3-77.4)	57.0 (50.1-63.5)
Oklahoma	87.1 (81.9-90.9)	72.9 (67.0-78.1)	59.1 (52.9-65.0)	37.9 (32.2-43.9)
Texas	83.4 (80.6-85.9)	86.7 (84.1-88.9)	59.9 (56.4-63.4)	43.5 (40.1-47.0)
TX-Bexar County	86.2 (80.7-90.4)	89.1 (84.4-92.6)	65.4 (58.4-71.7)	48.0 (41.2-54.9)
TX-City of Houston	82.8 (75.1-88.5)	86.7 (80.1-91.4)	70.1 (61.6-77.4)	50.9 (42.4-59.3)
TX-Hidalgo County	83.8 (76.9-89.0)	88.2 (81.6-92.6)	66.3 (58.6-73.3)	49.4 (41.8-57.1)
TX-Tarrant County	84.7 (79.2-88.9)	87.6 (82.6-91.3)	62.8 (56.4-68.7)	45.9 (39.6-52.4)
TX-Rest of State	83.1 (79.4-86.2)	86.3 (82.9-89.0)	58.0 (53.4-62.4)	41.9 (37.5-46.4)
Region VII	86.6 (83.7-89.2)	80.9 (77.7-83.7)	66.4 (62.8-69.7)	47.6 (44.0-51.2)
Iowa	94.0 (90.3-96.3)	89.2 (83.9-92.9)	73.4 (67.0-78.9)	55.1 (48.2-61.8)
Kansas	89.4 (84.2-93.0)	75.3 (69.1-80.6)	62.3 (55.5-68.6) ¶¶	40.7 (34.3-47.5)
Missouri	80.6 (74.4-85.6)	78.3 (72.0-83.5)	61.6 (55.0-67.8)	42.1 (35.7-48.8)
Nebraska	89.0 (83.3-92.9)	84.0 (78.0-88.6)	75.6 (68.9-81.3)	62.7 (55.6-69.3)
Region VIII	89.6 (87.0-91.7)	83.8 (80.7-86.6)	71.4 (67.8-74.7) ¶¶	53.6 (49.6-57.5) ¶¶
Colorado	90.3 (85.2-93.8)	84.9 (78.7-89.6)	77.2 (70.4-82.8)	62.5 (55.0-69.4)
Montana	86.7 (81.2-90.8)	75.6 (69.2-81.0)	66.4 (59.6-72.5)	48.4 (41.6-55.2)
North Dakota	90.2 (85.0-93.8)	92.5 (87.5-95.7)	76.7 (70.0-82.2)	63.6 (56.5-70.2)
South Dakota	86.6 (81.6-90.4)	85.3 (80.5-89.0) ¶¶	68.7 (62.7-74.1)	49.5 (43.3-55.6)
Utah	89.9 (85.0-93.4)	85.2 (79.4-89.5)	66.7 (60.2-72.6)	43.2 (36.4-50.2)
Wyoming	89.1 (83.8-92.7)	65.1 (57.8-71.7)	53.5 (46.0-60.9)	42.0 (34.7-49.7) ¶¶
Region IX	88.4 (84.2-91.5)	85.8 (81.3-89.3)	72.2 (66.9-77.0)	52.5 (46.7-58.1)
Arizona	82.9 (77.0-87.6)	89.1 (84.1-92.7)	67.2 (60.4-73.4)	50.7 (43.8-57.6)
California	89.7 (84.2-93.4)	85.6 (79.7-90.0)	73.5 (66.7-79.4)	52.6 (45.4-59.8)
Hawaii	85.8 (80.7-89.7)	83.6 (78.0-87.9)	76.7 (70.8-81.8)	60.7 (54.2-66.8)
Nevada	85.2 (80.0-89.2)	80.6 (75.1-85.1)	66.0 (59.8-71.7)	51.1 (44.7-57.4)
Region X	83.7 (79.9-86.9)	83.6 (80.0-86.6)	71.1 (66.9-74.9)	51.8 (47.4-56.2)
Alaska	79.6 (74.3-84.0)	69.2 (63.5-74.3)	66.4 (60.7-71.7)	44.1 (38.3-50.0)
Idaho	86.7 (81.2-90.8)	89.4 (84.3-93.0)	63.6 (56.7-70.0)	43.4 (36.9-50.2)
Oregon	86.1 (80.4-90.3)	83.0 (77.3-87.5)	75.3 (68.9-80.8)	58.2 (51.2-64.9)
Washington	82.0 (75.2-87.3)	83.7 (77.5-88.5)	71.3 (64.2-77.6)	51.6 (44.2-58.9)
Range†††	(79.6 - 97.5)	(64.0 - 98.7)	(51.7 - 89.3)	(32.6 - 78.1)
Territory				
Guam	70.2 (63.2-76.3)	68.9 (62.1-75.0)	65.8 (59.0-72.0)	45.6 (39.2-52.3)

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>

† Adolescents (N = 18,700) in the 2018 NIS-Teen were born January 2000 through February 2006.

§ Estimates with 95% confidence intervals > 20 may 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).

§§ 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 five months minus four days between the first and second dose.

¶¶ Statistically significant ($p < 0.05$) percentage point increase from 2017.

*** Statistically significant ($p < 0.05$) percentage point decrease from 2017.

††† Range excludes selected local areas and territories.