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| **Supplemental Table 1. Overall and state-specific HPV vaccination coverage among adolescent girls, 13-17 years,\* NIS-Teen, United States, 2008 and 2010** | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | ≥1 dose† | | |  | 3 dose | | |  | 3-dose series completion‡ | | |
|  | 2008 | 2010 | Difference |  | 2008 | 2010 | Difference |  | 2008 | 2010 | Difference |
|  | % (95% CI)§ | % (95% CI) | % (95%CI) |  | % (95% CI) | % (95% CI) | % (95%CI) |  | % (95% CI) | % (95% CI) | % (95%CI) |
| **United States** | 37.2 (35.1-39.3) | 48.7 (46.9-50.5) | 11.5 (8.7 - 14.3)|| |  | 17.9 (16.3-19.6) | 32.0 (30.3-33.6) | 14.1 (11.8 - 16.4)|| |  | 59.6 (55.5-63.5) | 69.6 (66.8-72.2) | 10.0 (5.2 - 14.8)|| |
| Alabama | 32.8 (25.5-41.1) | 45.8 (36.9-55.0) | 13.0 (0.9 - 25.1)|| |  | 13.2 (8.8-19.3) | 20.0 (13.9-27.9) | 6.8 (-1.9 - 15.5) |  | 50.3 (34.4-66.1) | 47.4 (34.3-60.9) | -2.9 (-24.2 - 18.4) |
| Alaska | 38.8 (30.6-47.8) | 40.8 (32.0-50.3) | 2.0 (-10.7 - 14.7) |  | 21.0 (14.7-29.0) | 25.0 (17.8-33.9) | 4.0 (-6.8 - 14.8) |  | 67.7 (50.7-81.1) | 63.4 (49.2-75.7) | -4.3 (-24.9 - 16.3) |
| Arizona | 50.5 (40.3-60.7) | 52.8 (43.4-62.0) | 2.3 (-11.7 - 16.3) |  | 20.8 (13.8-30.1) | 33.1 (24.7-42.8) | 12.3 (0.1 - 24.5)|| |  | 51.2 (35.1-67.0) | 67.0 (53.7-78.0) | 15.8 (-4.9 - 36.5) |
| Arkansas | 22.4 (16.2-30.2) | 37.9 (28.5-48.3) | 15.5 (3.3 - 27.7)|| |  | — | 19.6 (13.2-28.2) | — |  | 38.3 (21.4-58.4) | 63.4 (41.5-80.8) | 25.1 (-3.2 - 53.4) |
| California | 46.6 (36.1-57.5) | 56.1 (46.9-64.9) | 9.5 (-4.6 - 23.6) |  | 22.1 (14.2-32.8) | 32.0 (24.5-40.6) | 9.9 (-2.5 - 22.3) |  | 57.0 (39.3-73.1) | 61.0 (48.3-72.4) | 4.0 (-17.5 - 25.5) |
| Colorado | 33.5 (25.6-42.6) | 52.5 (43.5-61.4) | 19.0 (6.6 - 31.4)|| |  | 19.0 (12.7-27.4) | 40.9 (32.5-49.9) | 21.9 (10.4 - 33.4)|| |  | 72.7 (55.7-85.0) | 81.6 (69.7-89.5) | 8.9 (-9.0 - 26.8) |
| Connecticut | 45.0 (35.6-54.8) | 57.9 (49.4-65.9) | 12.9 (0.1 - 25.7|| |  | 23.3 (16.4-32.0) | 45.5 (37.2-54.1) | 22.2 (10.6 - 33.8)|| |  | 67.7 (50.6-81.1) | 83.2 (71.3-90.8) | 15.5 (-2.9 - 33.9) |
| Delaware | 46.8 (37.9-56.0) | 63.9 (54.9-72.0) | 17.1 (4.5 - 29.7)|| |  | 26.1 (18.8-34.9) | 40.4 (31.7-49.7) | 14.3 (2.2 - 26.4)|| |  | 79.7 (67.1-88.3) | 68.6 (55.3-79.5) | -11.1 (-27.3 - 5.1) |
| District of Columbia | 38.7 (30.0-48.3) | 57.5 (48.6-66.0) | 18.8 (6.0 - 31.6)|| |  | 12.4 (7.7-19.3) | 33.8 (26.2-42.5) | 21.4 (11.4 - 31.4)|| |  | 37.4 (23.1-54.2) | 62.7 (50.8-73.2) | 25.3 (5.6 - 45.0)|| |
| Florida | 36.7 (26.8-48.0) | 41.1 (31.5-51.4) | 4.4 (-10.4 - 19.2) |  | 20.2 (13.3-29.6) | 24.9 (16.9-35.1) | 4.7 (-7.5 - 16.9) |  | 65.9 (46.0-81.4) | 62.0 (45.7-76.0) | -3.9 (-28.0 - 20.2) |
| Georgia | 18.5 (13.0-25.6) | 43.5 (35.8-51.5) | 25.0 (14.9 - 35.1)|| |  | 8.1 (5.0-12.9) | 22.8 (17.4-29.4) | 14.7 (7.5 - 21.9)|| |  | 56.1 (37.8-73.0) | 56.2 (43.3-68.3) | 0.1 (-22.3 - 22.5) |
| Hawaii | 40.2 (32.3-48.6) | 62.7 (52.8-71.6) | 22.5 (10.0 - 35.0)|| |  | 18.7 (13.1-25.9) | 39.9 (31.1-49.4) | 21.2 (10.0 - 32.4)|| |  | 64.5 (49.3-77.2) | 70.9 (59.0-80.5) | 6.4 (-11.6 - 24.4) |
| Idaho | 28.4 (20.5-38.0) | 28.8 (21.6-37.3) | 0.4 (-11.5 - 12.3) |  | 8.0 (4.4-14.1) | 17.6 (11.8-25.4) | 9.6 (1.3 - 17.9)|| |  | — | 66.1 (49.5-79.6) | — |
| Illinois | 27.0 (20.8-34.2) | 39.7 (33.3-46.4) | 12.7 (3.3 - 22.1)|| |  | 12.8 (8.5-18.9) | 26.0 (20.6-32.2) | 13.2 (5.4 - 21.0)|| |  | 59.3 (44.3-72.7) | 72.2 (62.3-80.4) | 12.9 (-4.3 - 30.1) |
| Indiana | 26.1 (19.8-33.6) | 37.0 (29.2-45.6) | 10.9 (0.1 - 21.7)|| |  | 11.6 (7.4-17.6) | 24.8 (18.4-32.7) | 13.2 (4.4 - 22.0)|| |  | 62.2 (44.0-77.5) | 77.6 (62.8-87.7) | 15.4 (-6.0 - 36.8) |
| Iowa | 41.9 (32.6-51.9) | 48.2 (38.9-57.7) | 6.3 (-7.3 - 19.9) |  | 26.8 (18.7-36.7) | 36.2 (27.8-45.5) | 9.4 (-3.3 - 22.1) |  | 75.2 (58.8-86.6) | 79.4 (66.3-88.3) | 4.2 (-13.7 - 22.1) |
| Kansas | 30.1 (21.8-40.0) | 40.2 (32.0-48.9) | 10.1 (-2.4 - 22.6) |  | 15.6 (9.1-25.3) | 25.1 (18.6-33.0) | 9.5 (-1.3 - 20.3) |  | 64.2 (44.4-80.2) | 62.9 (47.7-76.0) | -1.3 (-25.0 - 22.4) |
| Kentucky | 26.3 (18.8-35.4) | 40.1 (31.4-49.5) | 13.8 (1.4 - 26.2)|| |  | 12.7 (8.1-19.4) | 27.3 (20.1-35.9) | 14.6 (4.9 - 24.3)|| |  | 59.7 (38.5-77.8) | 75.5 (59.0-86.9) | 15.8 (-9.2 - 40.8) |
| Louisiana | 36.6 (28.3-45.6) | 54.2 (44.9-63.2) | 17.6 (4.9 - 30.3)|| |  | 16.5 (11.0-24.1) | 39.3 (30.6-48.6) | 22.8 (11.6 - 34.0)|| |  | 54.4 (37.1-70.6) | 74.4 (62.1-83.8) | 20.0 (-0.6 - 40.6) |
| Maine | 40.3 (32.2-49.0) | 54.6 (45.0-63.8) | 14.3 (1.5 - 27.1)|| |  | 21.4 (14.9-29.8) | 32.9 (24.8-42.2) | 11.5 (0.0 - 23.0)|| |  | 74.1 (59.4-84.9) | 65.2 (51.9-76.5) | -8.9 (-26.9 - 9.1) |
| Maryland | 41.1 (32.4-50.5) | 41.6 (32.6-51.3) | 0.5 (-12.6 - 13.6) |  | 14.2 (9.7-20.5) | 30.8 (22.9-40.0) | 16.6 (6.5 - 26.7)|| |  | 43.3 (28.7-59.1) | 76.5 (62.1-86.6) | 33.2 (13.2 - 53.2)|| |
| Massachusetts | 53.3 (43.8-62.6) | 65.9 (56.5-74.1) | 12.6 (-0.4 - 25.6) |  | 29.1 (21.7-37.8) | 46.8 (37.1-56.9) | 17.7 (4.8 - 30.6)|| |  | 63.8 (49.1-76.4) | 71.1 (56.7-82.2) | 7.3 (-11.7 - 26.3) |
| Michigan | 32.3 (23.8-42.1) | 49.4 (39.6-59.3) | 17.1 (3.5 - 30.7)|| |  | 13.5 (8.5-20.7) | 25.2 (18.1-33.9) | 11.7 (1.7 - 21.7)|| |  | 53.4 (32.4-73.2) | 52.7 (38.4-66.6) | -0.7 (-26.7 - 25.3) |
| Minnesota | 33.6 (26.4-41.6) | 51.3 (42.0-60.5) | 17.7 (5.6 - 29.8)|| |  | 14.7 (10.1-20.7) | 37.8 (29.3-47.1) | 23.1 (12.7 - 33.5)|| |  | 52.4 (38.2-66.3) | 80.1 (65.8-89.4) | 27.7 (9.1 - 46.3)|| |
| Mississippi | 15.8 (10.6-23.0) | 34.0 (26.2-42.6) | 18.2 (7.9 - 28.5)|| |  | — | 20.0 (13.8-28.2) | — |  | — | 62.8 (46.9-76.3) | — |
| Missouri | 31.6 (23.8-40.7) | 41.4 (33.4-49.8) | 9.8 (-2.1 - 21.7) |  | 15.1 (9.8-22.6) | 25.5 (19.3-33.0) | 10.4 (1.0 - 19.8)|| |  | 57.8 (38.3-75.2) | 66.0 (51.3-78.1) | 8.2 (-15.5 - 31.9) |
| Montana | 17.8 (12.0-25.5) | 45.5 (36.9-54.4) | 27.7 (16.6 - 38.8)|| |  | 8.6 (4.8-15.1) | 33.2 (25.1-42.3) | 24.6 (14.6 - 34.6)|| |  | — | 77.3 (64.9-86.3) | — |
| Nebraska | 29.5 (23.0-37.0) | 52.3 (42.8-61.6) | 22.8 (11.0 - 34.6)|| |  | 17.5 (12.4-24.3) | 42.5 (33.3-52.2) | 25.0 (13.8 - 36.2)|| |  | 74.8 (60.6-85.2) | 84.0 (73.2-91.0) | 9.2 (-6.0 - 24.4) |
| Nevada | 30.0 (21.2-40.5) | 47.4 (38.9-56.2) | 17.4 (4.3 - 30.5)|| |  | — | 25.9 (19.1-34.1) | — |  | — | 60.2 (46.3-72.7) | — |
| New Hampshire | 54.4 (44.3-64.1) | 49.6 (41.4-57.7) | -4.8 (-17.7 - 8.1) |  | 23.2 (15.3-33.5) | 42.2 (34.4-50.4) | 19.0 (6.8 - 31.2)|| |  | 55.3 (37.8-71.5) | 87.1 (77.1-93.1) | 31.8 (12.6 - 51.0)|| |

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| New Jersey | 43.0 (34.3-52.1) | 35.4 (27.0-44.9) | -7.6 (-20.4 - 5.2) |  | 20.4 (14.2-28.3) | 25.4 (18.6-33.7) | 5.0 (-5.3 - 15.3) |  | 60.8 (44.1-75.3) | 76.2 (56.2-88.9) | 15.4 (-7.7 - 38.5) |
| New Mexico | 48.3 (38.4-58.4) | 48.4 (40.1-56.8) | 0.1 (-13.1 - 13.3) |  | 23.2 (15.4-33.4) | 31.1 (23.7-39.5) | 7.9 (-4.1 - 19.9) |  | 60.6 (44.1-75.1) | 67.6 (53.9-78.9) | 7.0 (-13.4 - 27.4) |
| New York | 50.2 (43.1-57.3) | 56.2 (49.5-62.7) | 6.0 (-3.8 - 15.8) |  | 29.2 (22.9-36.4) | 39.7 (33.3-46.5) | 10.5 (1.0 - 20.0)|| |  | 71.4 (60.4-80.4) | 76.9 (66.7-84.7) | 5.5 (-8.1 - 19.1) |
| North Carolina | 34.4 (26.3-43.6) | 51.9 (42.8-60.9) | 17.5 (4.9 - 30.1)|| |  | 17.8 (12.2-25.3) | 39.3 (30.6-48.6) | 21.5 (10.3 - 32.7)|| |  | 67.4 (47.1-82.8) | 80.2 (67.6-88.8) | 12.8 (-8.5 - 34.1) |
| North Dakota | 28.7 (21.9-36.7) | 41.7 (33.7-50.2) | 13.0 (1.8 - 24.2)|| |  | 15.9 (10.8-22.8) | 26.3 (19.8-34.0) | 10.4 (1.1 - 19.7)|| |  | 69.4 (51.0-83.1) | 67.4 (53.1-79.1) | -2.0 (-23.2 - 19.2) |
| Ohio | 29.1 (21.6-37.9) | 44.0 (35.3-53.0) | 14.9 (2.7 - 27.1)|| |  | 15.6 (10.0-23.5) | 31.1 (23.6-39.8) | 15.5 (5.0 - 26.0)|| |  | 65.1 (46.7-79.9) | 72.0 (56.3-83.7) | 6.9 (-15.2 - 29.0) |
| Oklahoma | 35.5 (27.3-44.7) | 47.4 (38.8-56.2) | 11.9 (-0.6 - 24.4) |  | 16.6 (10.9-24.4) | 31.1 (23.5-39.9) | 14.5 (3.9 - 25.1)|| |  | 58.2 (39.8-74.5) | 68.7 (54.8-79.9) | 10.5 (-11.6 - 32.6) |
| Oregon | 34.8 (25.6-45.3) | 54.1 (44.4-63.4) | 19.3 (5.5 - 33.1)|| |  | 14.3 (8.7-22.4) | 38.2 (29.2-48.0) | 23.9 (12.2 - 35.6)|| |  | 56.9 (37.5-74.5) | 74.3 (59.6-85.0) | 17.4 (-5.9 - 40.7) |
| Pennsylvania | 46.1 (38.7-53.7) | 52.3 (44.7-59.7) | 6.2 (-4.5 - 16.9) |  | 25.7 (19.5-33.0) | 41.7 (34.4-49.3) | 16.0 (5.9 - 26.1)|| |  | 64.8 (53.3-74.8) | 82.8 (74.0-89.1) | 18.0 (4.8 - 31.2)|| |
| Rhode Island | 54.7 (44.2-64.8) | 73.0 (64.6-80.0) | 18.3 (5.3 - 31.3)|| |  | 31.4 (23.2-40.9) | 55.1 (46.0-63.9) | 23.7 (11.0 - 36.4)|| |  | 67.2 (52.9-78.8) | 79.6 (68.7-87.4) | 12.4 (-3.8 - 28.6) |
| South Carolina | 18.7 (13.2-25.9) | 41.5 (32.6-51.0) | 22.8 (11.6 - 34.0)|| |  | 13.8 (9.0-20.7) | 29.5 (21.5-39.0) | 15.7 (5.2 - 26.2)|| |  | 80.8 (62.9-91.2) | 74.6 (60.0-85.2) | -6.2 (-25.1 - 12.7) |
| South Dakota | 45.9 (37.9-54.1) | 68.8 (60.5-76.1) | 22.9 (11.6 - 34.2)|| |  | 34.2 (26.9-42.4) | 54.5 (45.6-63.1) | 20.3 (8.5 - 32.1)|| |  | 75.6 (64.7-83.9) | 85.5 (75.7-91.7) | 9.9 (-2.6 - 22.4) |
| Tennessee | 29.6 (21.5-39.3) | 33.1 (25.7-41.4) | 3.5 (-8.5 - 15.5) |  | 13.0 (7.9-20.9) | 26.3 (19.7-34.2) | 13.3 (3.6 - 23.0)|| |  | 50.0 (30.7-69.3) | 83.1 (69.6-91.3) | 33.1 (10.1 - 56.1)|| |
| Texas | 31.6 (23.2-41.5) | 47.5 (40.5-54.6) | 15.9 (4.3 - 27.5)|| |  | 9.7 (5.8-15.6) | 27.0 (21.3-33.6) | 17.3 (9.5 - 25.1)|| |  | 40.6 (24.3-59.3) | 62.3 (51.1-72.4) | 21.7 (0.5 - 42.9)|| |
| Utah | 17.1 (10.3-27.2) | 39.2 (31.0-48.0) | 22.1 (10.1 - 34.1)|| |  | — | 22.2 (15.7-30.5) | — |  | — | 59.1 (45.0-71.8) | — |
| Vermont | 50.4 (40.9-59.8) | 49.6 (40.4-58.8) | -0.8 (-14.2 - 12.6) |  | 25.8 (18.2-35.2) | 38.6 (30.2-47.7) | 12.8 (0.5 - 25.1)|| |  | 69.6 (53.8-81.9) | 82.6 (65.7-92.2) | 13.0 (-6.4 - 32.4) |
| Virginia | 40.6 (31.9-50.0) | 54.0 (44.3-63.5) | 13.4 (0.0 - 26.8)|| |  | 21.2 (14.7-29.6) | 41.5 (32.1-51.5) | 20.3 (7.9 - 32.7)|| |  | 63.0 (46.8-76.6) | 78.2 (66.5-86.6) | 15.2 (-3.1 - 33.5) |
| Washington | 46.5 (37.1-56.1) | 69.3 (61.5-76.2) | 22.8 (10.7 - 34.9)|| |  | 23.8 (16.1-33.7) | 45.5 (37.3-53.9) | 21.7 (9.5 - 33.9)|| |  | 60.5 (43.4-75.3) | 66.5 (55.8-75.8) | 6.0 (-13.4 - 25.4) |
| West Virginia | 33.6 (25.7-42.6) | 42.4 (34.3-51.0) | 8.8 (-3.2 - 20.8) |  | 17.1 (11.3-25.1) | 25.3 (18.9-32.9) | 8.2 (-1.6 - 18.0) |  | 66.0 (47.5-80.6) | 63.9 (49.3-76.3) | -2.1 (-24.1 - 19.9) |
| Wisconsin | 47.0 (37.0-57.1) | 54.4 (44.5-63.9) | 7.4 (-6.8 - 21.6) |  | 22.6 (14.9-32.7) | 44.1 (34.7-54.0) | 21.5 (8.3 - 34.7)|| |  | 61.8 (43.9-77.0) | 85.8 (73.5-93.0) | 24.0 (4.4 - 43.6)|| |
| Wyoming | 36.2 (27.7-45.7) | 53.2 (44.1-62.0) | 17.0 (4.1 - 29.9)|| |  | 19.8 (13.5-28.2) | 40.3 (31.9-49.3) | 20.5 (9.1 - 31.9)|| |  | 74.5 (57.9-86.1) | 81.0 (68.1-89.5) | 6.5 (-11.3 - 24.3) |
| Abbreviations: HPV, Human papillomavirus; NIS-Teen, National Immunization Survey-Teen; CI, confidence interval. | | | | | | | | | | | |
| \* Adolescent girls (N=17,827) in the 2008 and 2010 NIS-Teen were born during January 1990-February 1996 and January 1992-February 1998, respectively. | | | | | | | | | | | |
| Source: National Immunization Survey-Teen 2008, 2010, National Center for Health Statistics, Centers for Disease Control and Prevention, 2010, 2011. | | | | | | | | | | | |
| † Either quadrivalent or bivalent human papillomavirus vaccine. | | | | | | | | | | | |
| ‡ Percentage of females who received three doses among those who had at least one HPV dose and had at least 24 weeks between the first dose and the interview date. | | | | | | | | | | | |
| § Confidence interval. Estimates with confidence interval widths >20 might not be reliable. | | | | | | | | | | | |
| || The percentage point difference in vaccination coverage levels from 2008 to 2010 is statistically significantly different from zero (2-sided *t*-test, P<.05) | | | | | | | | | | | |
| — Estimate not reported because unweighted sample size for the denominator was <30 or CI half-width/estimate greater than 0.588 (for vaccination coverage) | | | | | | | | | | | |
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| **Supplemental Table 2. Overall and state-specific HPV vaccination coverage among adolescent girls, pap test prevalence, and incidence rates for cervical cancer,\* United States** | | | | | | | | | |
|  | | | |  |  |  |  |  |  |
|  | HPV vaccination coverage among girls (age 13-17 yrs),† 2010 | | | Pap test in previous 3 years for ages 21-65 years,|| 2010 | | |  | Cervical cancer incidence rates age ≥15 yrs, 2005-2009 | |
| ≥1 dose | 3 doses | 3-dose series completion‡ | All | No usual source of medical care | No health insurance |  |
| % (95% CI)§ | % (95% CI) | % (95% CI) | % (95% CI) | % (95% CI) | % (95% CI) |  | Rate¶ | Count |
| **United States** | 48.7 (46.9-50.5) | 32.0 (30.3-33.6) | 69.6 (66.8-72.2) | 86.7 (86.3-87.0) | 70.6 (69.3-71.8) | 70.2 (69.0-71.4) |  | 9.9 | 56394 |
| Alabama | 45.8 (36.9-55.0) | 20.0 (13.9-27.9) | 47.4 (34.3-60.9) | 86.4 (84.2-88.3) | 72.2 (65.4-78.1) | 73.5 (67.3-78.9) |  | 10.7 | 922 |
| Alaska | 40.8 (32.0-50.3) | 25.0 (17.8-33.9) | 63.4 (49.2-75.7) | 85.6 (81.0-89.3) | 70.7 (59.8-79.6) | 70.3 (57.5-80.6) |  | 10.9 | 136 |
| Arizona | 52.8 (43.4-62.0) | 33.1 (24.7-42.8) | 67.0 (53.7-78.0) | 85.9 (82.7-88.6) | 68.6 (58.1-77.4) | 67.4 (56.8-76.4) |  | 8.2 | 996 |
| Arkansas | 37.9 (28.5-48.3) | 19.6 (13.2-28.2) | 63.4 (41.5-80.8) | 80.2 (76.0-83.8) | 61.8 (48.6-73.5) | 62.5 (51.3-72.5) |  | — | |
| California | 56.1 (46.9-64.9) | 32.0 (24.5-40.6) | 61.0 (48.3-72.4) | 86.7 (85.3-87.9) | 76.4 (72.9-79.6) | 75.5 (71.6-79.1) |  | 10.2 | 7214 |
| Colorado | 52.5 (43.5-61.4) | 40.9 (32.5-49.9) | 81.6 (69.7-89.5) | 86.5 (84.6-88.2) | 70.2 (64.2-75.5) | 71.4 (65.7-76.6) |  | 8.0 | 765 |
| Connecticut | 57.9 (49.4-65.9) | 45.5 (37.2-54.1) | 83.2 (71.3-90.8) | 91.7 (89.8-93.2) | 79.1 (69.1-86.5) | 79.0 (69.6-86.0) |  | 7.6 | 566 |
| Delaware | 63.9 (54.9-72.0) | 40.4 (31.7-49.7) | 68.6 (55.3-79.5) | 87.7 (84.6-90.3) | 65.9 (49.7-79.1) | 64.9 (49.9-77.5) |  | 11.0 | 202 |
| District of Columbia | 57.5 (48.6-66.0) | 33.8 (26.2-42.5) | 62.7 (50.8-73.2) | 91.4 (89.3-93.1) | 82.5 (73.8-88.8) | 75.3 (57.9-87.1) |  | — | |
| Florida | 41.1 (31.5-51.4) | 24.9 (16.9-35.1) | 62.0 (45.7-76.0) | 85.1 (83.4-86.6) | 68.3 (63.3-73.0) | 66.0 (60.8-70.9) |  | 11.3 | 4339 |
| Georgia | 43.5 (35.8-51.5) | 22.8 (17.4-29.4) | 56.2 (43.3-68.3) | 88.4 (86.4-90.2) | 75.3 (68.4-81.1) | 73.5 (66.9-79.3) |  | 10.0 | 1896 |
| Hawaii | 62.7 (52.8-71.6) | 39.9 (31.1-49.4) | 70.9 (59.0-80.5) | 84.2 (81.7-86.4) | 64.8 (55.1-73.3) | 62.3 (49.2-73.9) |  | 10.2 | 260 |
| Idaho | 28.8 (21.6-37.3) | 17.6 (11.8-25.4) | 66.1 (49.5-79.6) | 81.4 (79.0-83.6) | 65.7 (58.6-72.1) | 70.0 (63.9-75.4) |  | 7.7 | 216 |
| Illinois | 39.7 (33.3-46.4) | 26.0 (20.6-32.2) | 72.2 (62.3-80.4) | 88.1 (86.0-89.9) | 69.8 (60.4-77.8) | 72.1 (62.9-79.8) |  | 10.8 | 2819 |
| Indiana | 37.0 (29.2-45.6) | 24.8 (18.4-32.7) | 77.6 (62.8-87.7) | 84.5 (82.7-86.1) | 67.1 (60.1-73.3) | 65.6 (59.8-71.0) |  | 9.5 | 1218 |
| Iowa | 48.2 (38.9-57.7) | 36.2 (27.8-45.5) | 79.4 (66.3-88.3) | 88.7 (86.7-90.4) | 63.2 (52.6-72.7) | 68.1 (58.9-76.1) |  | 8.7 | 509 |
| Kansas | 40.2 (32.0-48.9) | 25.1 (18.6-33.0) | 62.9 (47.7-76.0) | 87.4 (85.4-89.2) | 71.5 (63.5-78.4) | 73.4 (65.6-79.9) |  | 8.4 | 449 |
| Kentucky | 40.1 (31.4-49.5) | 27.3 (20.1-35.9) | 75.5 (59.0-86.9) | 84.6 (82.2-86.7) | 71.1 (61.7-79.0) | 73.6 (66.4-79.7) |  | 11.1 | 979 |
| Louisiana | 54.2 (44.9-63.2) | 39.3 (30.6-48.6) | 74.4 (62.1-83.8) | 87.7 (85.9-89.3) | 75.6 (69.6-80.7) | 78.3 (73.5-82.5) |  | 11.8 | 943 |
| Maine | 54.6 (45.0-63.8) | 32.9 (24.8-42.2) | 65.2 (51.9-76.5) | 91.9 (90.7-93.1) | 70.0 (61.9-77.0) | 77.5 (71.1-82.7) |  | 8.0 | 227 |
| Maryland | 41.6 (32.6-51.3) | 30.8 (22.9-40.0) | 76.5 (62.1-86.6) | 90.6 (89.1-92.0) | 78.9 (72.6-84.1) | 78.3 (70.7-84.4) |  | 8.1 | 966 |
| Massachusetts | 65.9 (56.5-74.1) | 46.8 (37.1-56.9) | 71.1 (56.7-82.2) | 93.0 (91.8-94.1) | 71.7 (61.9-79.8) | 69.7 (57.1-79.9) |  | 7.0 | 982 |
| Michigan | 49.4 (39.6-59.3) | 25.2 (18.1-33.9) | 52.7 (38.4-66.6) | 88.9 (87.0-90.6) | 66.3 (57.8-73.9) | 72.7 (65.5-78.8) |  | 9.0 | 1824 |
| Minnesota | 51.3 (42.0-60.5) | 37.8 (29.3-47.1) | 80.1 (65.8-89.4) | 91.7 (89.4-93.5) | 83.9 (78.9-88.0) | 74.4 (58.6-85.7) |  | 7.6 | 786 |
| Mississippi | 34.0 (26.2-42.6) | 20.0 (13.8-28.2) | 62.8 (46.9-76.3) | 83.6 (81.4-85.5) | 68.0 (60.7-74.5) | 68.5 (62.7-73.7) |  | 11.4 | 607 |
| Missouri | 41.4 (33.4-49.8) | 25.5 (19.3-33.0) | 66.0 (51.3-78.1) | 85.5 (82.8-87.9) | 67.5 (57.6-76.0) | 64.7 (55.5-72.9) |  | 9.9 | 1197 |
| Montana | 45.5 (36.9-54.4) | 33.2 (25.1-42.3) | 77.3 (64.9-86.3) | 83.5 (81.1-85.6) | 64.6 (57.3-71.3) | 69.6 (63.2-75.3) |  | 7.0 | 139 |
| Nebraska | 52.3 (42.8-61.6) | 42.5 (33.3-52.2) | 84.0 (73.2-91.0) | 86.7 (84.2-88.8) | 63.1 (54.6-70.8) | 70.5 (59.0-79.9) |  | 8.9 | 295 |

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| Nevada | 47.4 (38.9-56.2) | 25.9 (19.1-34.1) | 60.2 (46.3-72.7) | 82.8 (78.8-86.1) | 63.7 (53.9-72.4) | 58.7 (47.8-68.8) |  | 10.1 | 507 |
| New Hampshire | 49.6 (41.4-57.7) | 42.2 (34.4-50.4) | 87.1 (77.1-93.1) | 88.5 (86.1-90.5) | 70.1 (59.4-79.0) | 73.6 (65.3-80.5) |  | 7.7 | 208 |
| New Jersey | 35.4 (27.0-44.9) | 25.4 (18.6-33.7) | 76.2 (56.2-88.9) | 88.6 (87.2-89.9) | 73.0 (66.7-78.5) | 73.8 (67.9-78.9) |  | 10.8 | 2002 |
| New Mexico | 48.4 (40.1-56.8) | 31.1 (23.7-39.5) | 67.6 (53.9-78.9) | 84.8 (82.3-87.0) | 70.6 (65.0-75.6) | 73.7 (68.1-78.7) |  | 9.5 | 363 |
| New York | 56.2 (49.5-62.7) | 39.7 (33.3-46.5) | 76.9 (66.7-84.7) | 88.4 (86.9-89.8) | 72.1 (64.8-78.3) | 71.0 (64.0-77.1) |  | 10.4 | 4391 |
| North Carolina | 51.9 (42.8-60.9) | 39.3 (30.6-48.6) | 80.2 (67.6-88.8) | 87.8 (85.9-89.5) | 75.9 (70.4-80.7) | 74.0 (68.5-78.8) |  | 9.3 | 1743 |
| North Dakota | 41.7 (33.7-50.2) | 26.3 (19.8-34.0) | 67.4 (53.1-79.1) | 88.8 (86.6-90.7) | 76.7 (69.0-82.9) | 76.5 (67.2-83.8) |  | 8.0 | 93 |
| Ohio | 44.0 (35.3-53.0) | 31.1 (23.6-39.8) | 72.0 (56.3-83.7) | 85.6 (83.8-87.3) | 61.2 (53.2-68.6) | 64.8 (57.9-71.1) |  | 9.6 | 2300 |
| Oklahoma | 47.4 (38.8-56.2) | 31.1 (23.5-39.9) | 68.7 (54.8-79.9) | 81.0 (78.9-82.9) | 67.1 (61.6-72.2) | 68.8 (63.6-73.5) |  | 12.0 | 860 |
| Oregon | 54.1 (44.4-63.4) | 38.2 (29.2-48.0) | 74.3 (59.6-85.0) | 80.5 (77.1-83.5) | 49.5 (39.4-59.5) | 51.5 (41.3-61.5) |  | 8.7 | 654 |
| Pennsylvania | 52.3 (44.7-59.7) | 41.7 (34.4-49.3) | 82.8 (74.0-89.1) | 85.4 (83.8-87.0) | 56.7 (48.5-64.5) | 61.8 (55.0-68.2) |  | 9.9 | 2642 |
| Rhode Island | 73.0 (64.6-80.0) | 55.1 (46.0-63.9) | 79.6 (68.7-87.4) | 90.3 (87.8-92.4) | 76.1 (64.3-84.9) | 77.2 (66.4-85.4) |  | 8.9 | 199 |
| South Carolina | 41.5 (32.6-51.0) | 29.5 (21.5-39.0) | 74.6 (60.0-85.2) | 87.0 (84.4-89.3) | 70.7 (60.2-79.4) | 73.3 (64.5-80.5) |  | 10.0 | 920 |
| South Dakota | 68.8 (60.5-76.1) | 54.5 (45.6-63.1) | 85.5 (75.7-91.7) | 88.5 (86.1-90.5) | 71.0 (61.4-79.1) | 78.7 (71.6-84.4) |  | 8.0 | 116 |
| Tennessee | 33.1 (25.7-41.4) | 26.3 (19.7-34.2) | 83.1 (69.6-91.3) | 85.8 (83.4-87.8) | 63.8 (55.0-71.8) | 65.1 (56.8-72.6) |  | 10.8 | 1383 |
| Texas | 47.5 (40.5-54.6) | 27.0 (21.3-33.6) | 62.3 (51.1-72.4) | 82.3 (80.4-84.1) | 63.7 (58.5-68.6) | 66.9 (62.3-71.2) |  | 11.2 | 4545 |
| Utah | 39.2 (31.0-48.0) | 22.2 (15.7-30.5) | 59.1 (45.0-71.8) | 80.3 (77.7-82.6) | 71.1 (65.2-76.3) | 69.4 (62.2-75.7) |  | 6.5 | 286 |
| Vermont | 49.6 (40.4-58.8) | 38.6 (30.2-47.7) | 82.6 (65.7-92.2) | 88.8 (86.9-90.5) | 63.3 (52.8-72.7) | 71.6 (61.2-80.1) |  | 5.9 | 77 |
| Virginia | 54.0 (44.3-63.5) | 41.5 (32.1-51.5) | 78.2 (66.5-86.6) | 89.1 (85.7-91.8) | 81.5 (71.1-88.8) | 72.8 (62.3-81.3) |  | — | |
| Washington | 69.3 (61.5-76.2) | 45.5 (37.3-53.9) | 66.5 (55.8-75.8) | 86.6 (85.2-87.8) | 73.1 (68.8-77.0) | 71.5 (66.9-75.7) |  | 8.5 | 1092 |
| West Virginia | 42.4 (34.3-51.0) | 25.3 (18.9-32.9) | 63.9 (49.3-76.3) | 82.8 (79.9-85.4) | 69.9 (62.3-76.6) | 70.5 (62.8-77.1) |  | 11.9 | 454 |
| Wisconsin | 54.4 (44.5-63.9) | 44.1 (34.7-54.0) | 85.8 (73.5-93.0) | 90.9 (88.9-92.7) | 70.6 (59.5-79.6) | 75.5 (65.2-83.5) |  | — | |
| Wyoming | 53.2 (44.1-62.0) | 40.3 (31.9-49.3) | 81.0 (68.1-89.5) | 83.6 (81.0-86.0) | 67.9 (60.2-74.6) | 63.4 (55.1-71.0) |  | 10.4 | 107 |
| Abbreviations: HPV, Human papillomavirus; CI, confidence interval. | | | | | | | | | |
| \* Adolescent girls in the 2010 NIS-Teen were born during January 1992-February 1998. Source: National Immunization Survey-Teen 2008, 2010, National Center for Health Statistics, Centers for Disease Control and Prevention, 2010, 2011. | | | | | | | | | |
| † Either quadrivalent or bivalent human papillomavirus vaccine. | | | | | | | | | |
| ‡ Percentage of females who received three doses among those who had at least one HPV dose at and had least 24 weeks between the first dose and the interview date. | | | | | | | | | |
| § Confidence interval. Estimates with confidence interval widths >20 might not be reliable. | | | | | | | | | |
| || Source: Behavioral Risk Factor Surveillance System Public Use Data Tape 2010, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention, 2011. Estimates are for women with intact uteri. | | | | | | | | | |
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| ¶ Five-year rates are per 100,000 population and standardized to the 2000 US standard population. States with missing rates did not meet North American Association of Central Cancer Registries (NAACCR) quality standards for the specified years and are not included in the reporting of incidence. Source: NPCR, National Program of Cancer Registries and SEER, Surveillance, Epidemiology, and End Results Program reported by NAACCR as meeting high-quality incidence data standards for the specified time periods. | | | | | | | | | |
| — Estimate not available because state did not have high quality incidence data to be included in this analysis. | | | | | | | | | |