SUPPLEMENTARY TABLE 2. Estimated vaccination coverage with selected individual vaccines and a combined vaccine series\* among children aged 19–35 months, overall and by U.S. Department of Health and Human Services (HHS) region, state and local area — National Immunization Survey-Child, United States, 2017<sup>†</sup>

National, HHS region, state, and local area	Vaccine/Vaccine series Combined 7-vaccine												
	MMR (≥1 dose) % (95% CI)		DTaP (≥4 doses) <sup>§</sup> % (95% CI)		Hep B (birth dose) <sup>¶</sup> % (95% CI)		HepA (≥2 doses) % (95% CI)		Rotavirus** % (95% CI)		series % (95% CI)		
US National	91.5	(90.6–92.3)	83.2	(82.0–84.3)	73.6	(72.0-75.2)††	59.7	(58.2–61.3)	73.2	(71.6–74.7)	70.4	(68.9–71.9)	
HHS REGION I	96.3	(94.6–97.4)	90.2	(87.1–92.6)	73.4	(69.2–77.2)	62.8	(58.2–67.3)	81.3	(77.0–84.9)	78.5	(74.4–82.1)	
Connecticut	94.6	(89.8–97.3)	86.8	(79.8–91.6)	78.5	(71.9–83.9)	73.0	(65.9–79.1)	84.0	(77.7–88.8)	75.3	(67.6–81.7)	
Maine	93.7	(89.8–96.2)	90.3	(85.7–93.6)	63.1	(56.2–69.6)	61.0	(54.0–67.5)	75.6	(69.2–81.0)	72.7	(66.3–78.3)	
Massachusetts	98.3	(94.9–99.4)	92.6	(86.2–96.1)	75.0	(66.8–81.7)	56.9	(48.2–65.3)	80.1	(71.5–86.6)	82.1	(74.0–88.2)	
New Hampshire	94.1	(89.5–96.8)	89.8	(84.5–93.4)	67.2	(59.9–73.7)	64.9	(57.7–71.5)	84.5	(78.2–89.2) ††	78.9	(72.4–84.1)	
Rhode Island Vermont	95.3 93.7	(91.2–97.5) (89.1–96.4)	89.2 85.5	(84.3–92.8) (79.8–89.9)	75.7 52.4	(69.3–81.2) (45.2–59.5)	69.0 58.1	(62.1–75.1) (50.9–65.0)	85.1 75.8	(78.8–89.7) (69.0–81.4)	74.4 74.0	(67.9–79.9) (67.5–79.5)	
HHS REGION II	91.4	(89.1–93.3)	83.1	(79.9–86.0)	67.8	(63.9–71.5)	54.1	(50.0–58.1)	73.1	(69.3–76.5)	68.0	(64.1–71.7)	
New Jersey	89.0	(84.1–92.5)	82.8	(76.9–87.4)	60.0	(53.4–66.3)	49.5	(43.0–55.9)	70.2	(63.9–75.9)	69.3	(62.8–75.1)	
New York	92.5	(89.8–94.6)	83.3	(79.3–86.7)	71.3	(66.4–75.7)	56.2	(51.1–61.1)	74.3	(69.6–78.5)	67.5	(62.4–72.1)	
NY-City of New York	91.9	(87.7–94.8)	79.5	(73.1–84.6)	67.1	(59.7–73.7)	54.0	(46.6–61.2)	67.9	(60.6–74.5)	61.8	(54.3–68.8)	
NY-Rest of State	93.1	(89.2–95.7)	87.2	(81.7–91.2)	75.5	(69.0–81.0)	58.3	(51.3–65.0)	80.7	(74.6–85.6)	73.1	(66.5–78.8)	
HHS REGION III	93.5	(90.9–95.4)	86.1	(82.7–88.9)	75.1	(71.1–78.8)	59.7	(55.4–64.0)	76.9	(72.8–80.6)	73.9	(69.7–77.6)	
Delaware	92.9	(88.0–95.8)	88.9	(83.6–92.6)	72.9	(65.6–79.1)	69.6	(62.3–76.0)	84.3	(78.3–88.8)	77.1	(70.2–82.8)	
Dist. of Columbia	94.1	(88.0–97.2)	85.3	(78.3–90.3)	69.8	(61.8–76.7)	72.9	(65.1–79.6)	77.3	(69.6–83.5)	74.0	(66.2–80.5)	
Maryland	92.4	(84.9–96.3)	82.4	(73.5–88.7)	76.0	(67.5–82.9)	59.3	(50.1–67.9)	74.6	(65.7–81.9)	75.2	(66.3–82.4)	
Pennsylvania	91.7	(85.9–95.3)	83.1	(76.4–88.3)	78.9	(72.1–84.4)	57.8	(50.6–64.8)	74.4	(67.0–80.7)	70.4	(63.1–76.8)	
PA-Philadelphia	95.4	(90.4–97.9)	86.4	(79.4–91.2)	76.2	(67.9–82.9)	61.4	(52.9–69.3)	69.7	(61.0–77.3)	70.4	(61.8–77.8) §	
PA-Rest of State	91.0	(84.0–95.1)	82.5	(74.5–88.4)	79.4	(71.4–85.7)	57.2	(48.7–65.2)	75.3	(66.5–82.4)	70.4	(61.8–77.8)	
Virginia	97.6	(94.8–98.9) ††	92.8	(87.5–95.9)	71.0	(61.6–78.9)	58.4	(49.1–67.2)	81.2	(72.2–87.7)	77.1	(68.2–84.1)	
West Virginia	89.9	(84.8–93.4)	85.3	(80.0–89.4)	69.7	(63.2–75.5)	70.3	(63.8–76.0) ††	77.4	(71.1–82.6) ††	74.7	(68.3–80.1)	
HHS REGION IV	91.6	(89.6–93.2)	84.2	(81.8–86.4)	73.0	(70.0–75.8)	58.4	(55.1–61.6)	73.1	(70.0–76.0)	72.0	(69.1–74.8)	
Alabama	92.3	(87.5–95.4)	81.4	(74.5–86.8)	77.6	(70.7–83.2) §§	61.1	(53.7–68.0)	74.2	(66.9–80.4)	71.2	(64.0–77.6)	
Florida	91.9	(86.4–95.3)	85.3	(79.0–89.9)	66.0	(58.1–73.1)	53.6	(45.3–61.6)	69.1	(61.2–76.0)	76.2	(68.8–82.2)	
Georgia	90.7	(85.2–94.3)	80.1	(73.1–85.6) <sup>§§</sup>	74.6	(67.4–80.7)	64.3	(56.9–71.2)	71.2	(63.6–77.8)	65.6	(58.0–72.4) §§	
Kentucky	92.7	(87.1–96.0)	84.6	(78.0–89.4)	84.1	(77.7–88.9)	58.6	(50.8–66.0)	80.4	(73.5–85.8) ††	71.0	(63.5–77.6)	
Mississippi	91.8	(86.7–95.1)	82.9	(76.4–87.9)	71.0	(63.1–77.9)	49.8	(42.1–57.5)	75.6	(68.5–81.6)	68.7	(61.0–75.5)	
North Carolina	92.2	(87.2–95.3)	86.7	(80.3–91.3)	77.7	(70.4–83.6)	56.1	(48.8–63.2)	79.1	(72.2–84.6)	70.9	(63.7–77.3)	
South Carolina	88.0	(81.6–92.4)	81.4	(73.8–87.2)	72.4	(64.0–79.4)	58.3	(49.9–66.2)	67.2	(58.5–74.9)	66.0	(57.5–73.5)	
Tennessee	92.3	(87.0–95.6)	88.5	(83.1–92.4)	73.9	(66.8–79.9) ††	67.2	(59.5–74.1)	75.6	(67.6–82.2)	79.3	(72.8–84.6) <sup>†</sup>	
HHS REGION V	90.6	(88.7–92.1)	82.3	(79.9–84.5)	76.8	(74.2–79.2)	58.0	(55.0–60.9)	73.9	(71.1–76.6)	69.5	(66.6–72.3)	
Illinois	91.9	(88.4–94.4)	84.4	(79.8–88.0)	73.4	(68.4–77.9)	60.0	(54.6–65.1)	75.4	(70.3–80.0)	75.4	(70.5–79.8)	
IL-City of Chicago	94.0	(83.8–97.9)	81.8	(71.5–89.0)	79.9	(70.0–87.1)	57.8	(47.3–67.6)	77.6	(67.0–85.6)	75.3	(64.9–83.4)	
IL-Rest of State	91.2	(87.2–94.0)	85.2	(80.0–89.3)	71.2	(65.3–76.5)	60.7	(54.5–66.6)	74.7	(68.6–79.9)	75.5	(69.7–80.4)	
Indiana	87.0	(87.0–91.4)	82.1	(75.4–87.3)	78.0	(71.3–83.6)	63.9	(56.0–71.2)	77.6	(70.4–83.4)	66.3	(58.4–73.4)	
Michigan	92.2	(87.1–95.4)	81.3	(74.7–86.4)	81.2	(74.8–86.3)	61.4	(53.5–68.8)	76.0	(68.3–82.4)	69.9	(62.0–76.7)	
Minnesota	94.3	(89.9–96.8)	83.3	(75.9–88.8)	72.1	(64.1–78.9)	56.1	(47.6–64.2)	70.9	(62.4–78.2)	66.1	(57.7–73.7)	
Ohio	88.3	(83.0–92.1)	81.1	(75.0–85.9)	76.5	(69.2–82.6)	51.0	(43.8–58.1)	67.2	(59.8–73.9)	66.4	(58.9–73.1)	
Wisconsin	89.9	(83.7–93.9)	81.1	(73.7–86.7)	80.9	(74.6–85.9)	56.6	(48.7–64.1)	79.1	(71.9–84.8)	69.2	(61.4–76.1) §	
HHS REGION VI	90.7	(88.8–92.3)	81.2	(78.8–83.3)	76.8	(74.2–79.2)	61.7	(58.8–64.4)	74.5	(72.0–76.9)	68.3	(65.5–70.9)	

<b>Louisiana</b> 91.3 (85.7–94.9) 80.7 (73.5–86.4) 78.6 (71.5–84.3) 53.2 (45.3–61.0) 72.4 (64.9–78.8) 70.0	(62.3–76.8) (64.4–78.4)	
	(64.4–78.4)	
New Mexico 89.3 (83.2–93.4) 88.1 (82.4–92.1) 71.7 (64.4–78.0) 67.3 (59.6–74.2) 76.4 (68.9–82.6) 71.9		
<b>Oklahoma</b> 91.7 (86.9–94.9) 78.5 (71.1–84.3) 78.8 (71.3–84.7) 62.7 (54.8–69.9) 67.3 (59.4–74.3) 67.3	(59.4-74.3)	
<b>Texas</b> 90.3 (87.8–92.4) 81.2 (78.1–84.0) 76.3 (72.9–79.4) 62.7 (59.0–66.3) 76.0 (72.7–79.0) 67.8	(64.2-71.2)	
<b>TX-Bexar County</b> 96.1 (92.5–98.0) 84.8 (78.6–89.4) 76.6 (70.2–82.0) 65.5 (58.1–72.1) 75.0 (68.0–80.9) 75.6	(68.5-81.6)	
<b>TX-City of Houston</b> 87.8 (79.3–93.2) 81.6 (72.6–88.1) 78.8 (68.3–86.5) 65.5 (55.1–74.5) 78.7 (69.1–85.9) 74.3	(64.2-82.4)	
<b>TX-Dallas County</b> 93.2 (87.0–96.6) 81.9 (73.4–88.1) 76.0 (67.2–83.1) 67.0 (58.1–74.9) 74.9 (66.1–82.1) 65.6	(56.3-73.9)	
<b>TX-El Paso County</b> 89.3 (82.7–93.5) 84.2 (77.1–89.4) 75.8 (67.7–82.4) 66.4 (58.2–73.7) 77.2 (69.5–83.5) 66.2	(57.9-73.7)	
<b>TX-Travis County</b> 92.1 (87.1–95.3) 81.5 (74.8–86.7) 75.9 (69.3–81.4) 69.6 (62.4–75.9) 72.7 (65.6–78.9) 66.7	(59.5-73.2)	
TX-Rest of State <sup>¶</sup> 89.7 (85.9–92.6) 80.5 (75.9–84.4) 75.8 (71.0–80.1) 60.4 (55.2–65.4) 75.8 (71.1–80.0) 66.0	(60.9–70.8)	
HHS REGION VII 89.1 (85.7–91.7) §§ 80.2 (76.4–83.6) 79.5 (75.9–82.7) 56.2 (51.9–60.3) 75.8 (71.9–79.4) 72.2	(68.1–75.9)	
lowa 91.5 (86.0–95.0) 83.9 (77.4–88.8) 82.3 (75.1–87.8) <sup>††</sup> 64.4 (56.9–71.2) 76.4 (69.0–82.4) 72.8	(65.6–79.0)	
<b>Kansas</b> 89.8 (82.9–94.1) 78.5 (70.1–85.0) 72.6 (63.9–79.9) 63.2 (54.3–71.2) 75.5 (67.2–82.3) 69.5	(60.6–77.2)	
Missouri 85.8 (78.7–90.8) 77.0 (69.4–83.1) 80.4 (73.9–85.6) 43.9 (36.5–51.7) 74.7 (67.3–80.9) 71.2	(63.5–77.9)	
Nebraska 93.7 (89.1–96.4) 86.4 (80.7–90.7) 83.1 (76.6–88.1) 68.3 (61.2–74.6) 78.7 (72.4–83.9) 77.9	(71.4–83.2)	
HHS REGION VIII 89.0 (86.2–91.2) 80.6 (77.1–83.7) 76.1 (72.5–79.3) 58.7 (54.6–62.6) 75.7 (71.9–79.2) 70.6	(66.6–74.3)	
<b>Colorado</b> 87.2 (81.5–91.3) 79.9 (72.7–85.5) 73.9 (67.0–79.9) 57.0 (49.3–64.4) 73.7 (66.0–80.1) 71.0	(63.2-77.8)	
Montana 92.3 (87.1–95.5) 80.1 (72.6–85.9) 72.7 (64.9–79.4) 52.8 (44.5–61.0) 73.2 (65.1–80.0) 66.2	(58.0-73.6)	
North Dakota 95.7 (92.1–97.7) †† 86.1 (79.8–90.6) 84.0 (77.1–89.1) 73.3 (66.3–79.3) 83.1 (76.7–88.1) 78.8	(71.9–84.4) ††	
South Dakota 89.9 (84.2–93.7) 81.8 (75.0–87.1) 80.2 (73.6–85.5) 62.3 (54.7–69.4) 75.9 (68.9–81.7) 74.7	(67.5–80.8)	
<b>Utah</b> 88.7 (83.5–92.5) 80.6 (74.1–85.7) 78.2 (71.5–83.7) 59.6 (52.2–66.5) 77.0 (70.2–82.5) 67.9	(60.6–74.5)	
<b>Wyoming</b> 89.1 (84.0–92.8) 77.6 (71.1–83.0) 65.8 (59.0–72.0) 46.4 (39.4–53.5) 78.2 (72.1–83.3) <sup>††</sup> 72.0	(65.2–77.9)	
HHS REGION IX 92.7 (88.0–95.6) 83.5 (77.6–88.1) 69.1 (61.1–76.0) 64.6 (57.4–71.1) 65.8 (58.1–72.8) 68.5	(61.4–74.8)	
<b>Arizona</b> 91.7 (87.0–94.8) 82.2 (75.9–87.1) 80.0 (73.9–85.0) 62.9 (55.5–69.7) 70.6 (63.2–77.0) 66.5	(59.2-73.1)	
<b>California</b> 92.9 (86.6–96.4) 83.9 (76.1–89.5) 66.1 (56.1–74.8) 65.0 (55.9–73.2) 64.7 (54.9–73.5) 68.6	(59.5–76.4)	
<b>Hawaii</b> 90.5 (85.3–94.0) 82.3 (76.1–87.2) 76.3 (69.0–82.3) 56.2 (48.8–63.3) 73.2 (65.9–79.5) 69.8	(62.7–76.1)	
Nevada 92.4 (87.7–95.4) 82.0 (75.7–86.9) 80.6 (73.8–86.0) 66.4 (58.8–73.4) 66.0 (58.2–73.1) 71.3	(64.3–77.4)	
HHS REGION X 89.5 (86.2–92.1) 80.4 (76.3–84.0) 71.1 (66.6–75.2) 60.6 (55.8–65.3) 74.3 (69.8–78.4) 69.9	(65.3–74.1)	
Alaska 89.3 (84.6–92.7) 75.1 (68.6–80.6) 70.8 (64.2–76.7) 53.6 (46.5–60.5) 72.4 (66.0–78.0) 69.5	(62.9-75.4)	
ldaho 92.2 (86.5–95.7) 82.3 (74.9–87.9) 75.6 (68.0–81.9) 66.0 (58.0–73.2) 78.5 (71.1–84.4) 69.2	(61.2–76.3)	
<b>Oregon</b> 90.3 (85.2–93.7) 79.7 (72.8–85.1) 76.4 (69.6–82.0) 59.3 (51.7–66.5) 74.1 (66.8–80.3) 70.3	(62.9–76.7) ††	
<b>Washington</b> 88.5 (82.6–92.6) 81.0 (74.1–86.4) 67.4 (59.8–74.1) <sup>§§</sup> 60.8 (52.8–68.3) 73.6 (66.0–80.1) 69.9	(62.2–76.6)	
Range (85.8–98.3) (75.1–92.8) (52.4–84.1) (43.9–73.3) (64.7–85.1) (65.7 Territory	(65.6–82.1)	
Guam*** 82.5 (76.6–87.2) <sup>§§</sup> 67.1 (60.5–73.0) 91.6 (87.5–94.5) <sup>††</sup> 50.2 (43.4–57.0) 51.8 (45.3–58.3) 49.1	(42.6–55.6)	

**Abbreviations:** CI = confidence interval; DTaP = diphtheria, tetanus toxoids, and acellular pertussis vaccine; HepA = hepatitis A vaccine; HepB = hepatitis B vaccine; Hib = *Haemophilus influenzae* type b conjugate vaccine; MMR = measles, mumps, and rubella vaccine; PCV = pneumococcal conjugate vaccine.

<sup>\*</sup> The combined 7-vaccine series (4:3:1:3\*:3:1:4) includes ≥4 doses of DTaP, ≥3 doses of poliovirus vaccine, ≥1 dose of measles-containing vaccine, full series of Hib vaccine (≥3 or ≥4 doses, depending on product type), ≥3 doses of HepB, ≥1 dose of varicella vaccine, and ≥4 doses of PCV.

<sup>&</sup>lt;sup>†</sup> Children in the 2017 National Immunization Survey were born January 2014–May 2016.

<sup>§</sup> Includes children who might have been vaccinated with diphtheria and tetanus toxoids vaccine or diphtheria, tetanus toxoids and pertussis vaccine.

<sup>&</sup>lt;sup>¶</sup> One dose HepB administered from birth through age 3 days.

<sup>\*\*</sup> Either ≥2 or ≥3 doses of rotavirus vaccine, depending on product type received (≥2 doses for Rotarix [RV1] or ≥3 doses for RotaTeq [RV5]).

<sup>&</sup>lt;sup>††</sup> Statistically significant increase in coverage compared to 2016 (p<0.05).

<sup>§§</sup> Statistically significant decrease in coverage compared to 2016 (p<0.05).

<sup>11</sup> No comparison was made to coverage in 2016; Travis County was not sampled in 2016 and "rest of state" is not comparable between the 2 years.

<sup>\*\*\*</sup> Children from Guam (n = 440 total, 266 with adequate provider data) were excluded from the national estimates.