

APPENDIX E

Data and Statistics

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Appendix E

Reported Cases and Deaths from Vaccine Preventable Diseases, United States

| Year | Diphtheria | | Tetanus | | Pertussis | | Polio (paralytic) | | Measles | | Mumps | | Rubella | | CRS |
|------|------------|--------|---------|--------|-----------|--------|---------------------|--------|---------|--------|---------|--------|---------|--------|-------|
| | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases |
| 1950 | 5,796 | 410 | 486 | 336 | 120,718 | 1,118 | 33,300 [†] | 1,904 | 319,124 | 468 | NR | | NR | | NR |
| 1951 | 3,983 | 302 | 506 | 394 | 68,687 | 951 | 28,386 [†] | 1,551 | 530,118 | 683 | NR | | NR | | NR |
| 1952 | 2,960 | 217 | 484 | 360 | 45,030 | 402 | 57,879 [†] | 3,145 | 683,077 | 618 | NR | | NR | | NR |
| 1953 | 2,355 | 156 | 506 | 337 | 37,129 | 270 | 35,592 [†] | 1,450 | 449,146 | 462 | NR | | NR | | NR |
| 1954 | 2,041 | 145 | 524 | 332 | 60,886 | 373 | 18,308 | 1,368 | 682,720 | 518 | NR | | NR | | NR |
| 1955 | 1,984 | 150 | 462 | 265 | 62,786 | 467 | 13,850 | 1043 | 555,156 | 345 | NR | | NR | | NR |
| 1956 | 1,568 | 103 | 468 | 246 | 31,732 | 266 | 7,911 | 566 | 611,936 | 530 | NR | | NR | | NR |
| 1957 | 1,211 | 81 | 447 | 279 | 28,295 | 183 | 2,499 | 221 | 486,799 | 389 | NR | | NR | | NR |
| 1958 | 918 | 74 | 445 | 303 | 32,148 | 177 | 3,697 | 255 | 763,094 | 552 | NR | | NR | | NR |
| 1959 | 934 | 72 | 445 | 283 | 40,005 | 269 | 6,289 | 454 | 406,162 | 385 | NR | | NR | | NR |
| 1960 | 918 | 69 | 368 | 231 | 14,809 | 118 | 2,525 | 230 | 441,703 | 380 | NR | 42 | NR | 12 | NR |
| 1960 | 617 | 68 | 379 | 242 | 11,468 | 76 | 988 | 90 | 423,919 | 434 | NR | 53 | NR | 14 | NR |
| 1962 | 444 | 41 | 322 | 215 | 17,749 | 83 | 762 | 60 | 481,530 | 408 | NR | 43 | NR | 8 | NR |
| 1963 | 314 | 45 | 325 | 210 | 17,135 | 115 | 396 | 41 | 385,156 | 364 | NR | 48 | NR | 16 | NR |
| 1964 | 293 | 42 | 289 | 179 | 13,005 | 93 | 106 | 17 | 458,083 | 421 | NR | 50 | NR | 53 | NR |
| 1965 | 164 | 18 | 300 | 181 | 6,799 | 55 | 61 | 16 | 261,904 | 276 | NR | 31 | NR | 16 | NR |
| 1966 | 209 | 20 | 235 | 158 | 7,717 | 49 | 106 | 9 | 204,136 | 261 | NR | 43 | 46,975 | 12 | NR |
| 1967 | 219 | 32 | 263 | 144 | 9,718 | 37 | 40 | 16 | 62,705 | 81 | NR | 37 | 46,888 | 16 | NR |
| 1968 | 260 | 30 | 178 | 66 | 4,810 | 36 | 53 | 24 | 22,231 | 24 | 152,209 | 25 | 49,371 | 24 | NR |
| 1969 | 241 | 25 | 192 | 89 | 3,285 | 13 | 18 | 13 | 25,826 | 41 | 90,918 | 22 | 57,686 | 29 | 62 |
| 1970 | 435 | 30 | 148 | 79 | 4,249 | 12 | 31 | 7 | 47,351 | 89 | 104,953 | 16 | 56,552 | 31 | 67 |
| 1971 | 215 | 13 | 116 | 64 | 3036 | 18 | 17 | 18 | 75,290 | 90 | 124,939 | 22 | 45,086 | 20 | 44 |
| 1972 | 152 | 10 | 128 | 58 | 3,287 | 6 | 29 | 2 | 32,275 | 24 | 74,215 | 16 | 25,507 | 14 | 32 |
| 1973 | 228 | 10 | 101 | 40 | 1,759 | 5 | 7 | 10 | 26,690 | 23 | 69,612 | 12 | 27,804 | 16 | 30 |
| 1974 | 272 | 5 | 101 | 44 | 2,402 | 14 | 7 | 3 | 22,094 | 20 | 59,128 | 6 | 11,917 | 15 | 22 |
| 1975 | 307 | 5 | 102 | 45 | 1,738 | 8 | 13 | 9 | 24,374 | 20 | 59,647 | 8 | 16,652 | 21 | 32 |
| 1976 | 128 | 7 | 75 | 32 | 1,010 | 7 | 10 | 16 | 41,126 | 12 | 38,492 | 8 | 12,491 | 12 | 22 |
| 1977 | 84 | 5 | 87 | 24 | 2,177 | 10 | 19 | 16 | 57,345 | 15 | 21,436 | 5 | 20,395 | 17 | 29 |
| 1978 | 76 | 4 | 86 | 32 | 2,063 | 6 | 8 | 13 | 26,871 | 11 | 16,817 | 3 | 18,269 | 10 | 30 |
| 1979 | 59 | 1 | 81 | 30 | 1,623 | 6 | 22 | 1 | 13,597 | 6 | 14,255 | 2 | 11,795 | 1 | 57 |
| 1980 | 3 | 1 | 95 | 28 | 1,730 | 11 | 9 | 2 | 13,506 | 11 | 8,576 | 2 | 3,904 | 1 | 14 |
| 1981 | 5 | 0 | 72 | 31 | 1,248 | 6 | 10 | 0 | 3,124 | 2 | 4,941 | 1 | 2,077 | 5 | 10 |
| 1982 | 2 | 1 | 88 | 22 | 1,895 | 4 | 12 | 0 | 1,714 | 2 | 5,270 | 2 | 2,325 | 4 | 13 |
| 1983 | 5 | 0 | 91 | 22 | 2,463 | 5 | 13 | 0 | 1,497 | 4 | 3,355 | 2 | 970 | 3 | 7 |
| 1984 | 1 | 0 | 74 | 20 | 2,276 | 7 | 9 | 0 | 2,587 | 1 | 3,021 | 1 | 752 | 1 | 2 |
| 1985 | 3 | 0 | 83 | 23 | 3,589 | 4 | 8 | 0 | 2,822 | 4 | 2,982 | 0 | 630 | 1 | 2 |
| 1986 | 0 | 0 | 64 | 22 | 4,195 | 6 | 10 | 0 | 6,282 | 2 | 7,790 | 0 | 55 | 1 | 13 |
| 1987 | 3 | 1 | 48 | 16 | 2,823 | 1 | 9 | 0 | 3,655 | 2 | 12,848 | 2 | 306 | 0 | 3 |

[†]Total reported cases (i.e., including non-paralytic)

Appendix E

| Year | Diphtheria | | Tetanus | | Pertussis | | Polio (paralytic) | | Measles | | Mumps | | Rubella | | CRS |
|------|------------|--------|---------|--------|-----------|--------|-------------------|--------|---------|--------|-------|--------|---------|--------|-------|
| | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases |
| 1988 | 2 | 0 | 53 | 17 | 3,450 | 4 | 9 | 0 | 3,396 | 3 | 4,866 | 2 | 225 | 1 | 2 |
| 1989 | 3 | 0 | 53 | 9 | 4,157 | 12 | 11 | 0 | 18,193 | 32 | 5,712 | 3 | 396 | 4 | 2 |
| 1990 | 4 | 1 | 64 | 11 | 4,570 | 12 | 6 | 0 | 27,786 | 64 | 5,292 | 1 | 1,125 | 8 | 32 |
| 1991 | 5 | 0 | 57 | 11 | 2,719 | 0 | 10 | 1 | 9,643 | 27 | 4,264 | 1 | 1,401 | 1 | 34 |
| 1992 | 4 | 1 | 45 | 9 | 4,083 | 5 | 6 | 0 | 2,237 | 4 | 2,572 | 0 | 160 | 1 | 11 |
| 1993 | 0 | 0 | 48 | 11 | 6,586 | 1 | 4 | 0 | 312 | 0 | 1,692 | 0 | 192 | 0 | 4 |
| 1994 | 2 | 0 | 51 | 9 | 4,617 | 8 | 8 | 0 | 963 | 0 | 1,537 | 0 | 227 | 0 | 7 |
| 1995 | 0 | 1 | 41 | 5 | 5,137 | 6 | 7 | 1 | 309 | 2 | 906 | 0 | 128 | 1 | 3 |
| 1996 | 2 | 0 | 36 | 1 | 7,796 | 4 | 7 | 0 | 508 | 1 | 751 | 1 | 238 | 0 | 2 |
| 1997 | 4 | 0 | 50 | 4 | 6,564 | 6 | 6 | 0 | 138 | 2 | 683 | 0 | 181 | 0 | 9 |
| 1998 | 1 | 1 | 34 | 7 | 6,279 | 5 | 3 | 0 | 100 | 0 | 666 | 1 | 364 | 0 | 9 |
| 1999 | 1 | 1 | 40 | 7 | 7,288 | 7 | 2 | 0 | 100 | 2 | 387 | 1 | 267 | 0 | 6 |
| 2000 | 1 | 0 | 35 | 5 | 7,867 | 12 | 0 | 0 | 86 | 1 | 338 | 2 | 176 | 0 | 8 |
| 2001 | 2 | 0 | 37 | 5 | 7,580 | 17 | 0 | 0 | 116 | 1 | 266 | 0 | 23 | 2 | 3 |
| 2002 | 1 | 0 | 25 | 5 | 9,771 | 18 | 0 | 0 | 44 | 0 | 270 | 1 | 18 | 0 | 1 |
| 2003 | 1 | 1 | 20 | 4 | 11,647 | 11 | 0 | 0 | 56 | 1 | 231 | 0 | 7 | 0 | 4 |
| 2004 | 0 | 0 | 34 | 4 | 25,827 | 16 | 0 | 0 | 37 | 0 | 258 | 0 | 10 | 1 | 0 |
| 2005 | 0 | 0 | 27 | 1 | 25,616 | 31 | 1 [§] | 0 | 66 | NA | 314 | 0 | 11 | 0 | 1 |
| 2006 | 0 | 0 | 41 | 4 | 15,632 | 9 | 0 | 0 | 55 | 0 | 6,584 | 1 | 11 | 0 | 1 |
| 2007 | 0 | 0 | 28 | 5 | 10,454 | 9 | 0 | 0 | 43 | 0 | 800 | 0 | 11 | 1 | 0 |
| 2008 | 0 | 0 | 19 | 3 | 13,278 | 6 | 0 | 0 | 140 | 0 | 454 | 2 | 16 | 0 | 0 |
| 2009 | 0 | 0 | 18 | 6 | 16,858 | 1 | 1 [§] | 0 | 71 | 2 | 1991 | 2 | 3 | 2 | 2 |
| 2010 | 0 | 0 | 26 | 3 | 27,550 | 5 | 0 | 0 | 63 | 2 | 2,612 | 1 | 5 | 2 | 0 |
| 2011 | 0 | 0 | 36 | 6 | 18,719 | 1 | 0 | 0 | 220 | 0 | 404 | 0 | 4 | 1 | 0 |
| 2012 | 1 | 0 | 37 | 4 | 48,277 | 4 | 0 | 0 | 55 | 2 | 229 | 0 | 9 | 0 | 3 |
| 2013 | 0 | 0 | 26 | 3 | 28,639 | 2 | 1 [§] | 0 | 187 | 0 | 584 | 1 | 9 | 0 | 1 |
| 2014 | 1 | 0 | 25 | 1 | 32,971 | 7 | 0 | 0 | 667 | 0 | 1,223 | 0 | 6 | 0 | 1 |
| 2015 | 0 | NA | 29 | NA | 20,762 | NA | 0 | NA | 188 | NA | 1,329 | NA | 5 | NA | 1 |
| 2016 | 0 | NA | 34 | NA | 17,972 | NA | 0 | NA | 85 | NA | 6,369 | NA | 1 | NA | 2 |

§ Vaccine-associated/derived paralytic polio.

Appendix E

| Year | Hepatitis A | | Hepatitis B | | Haemophilus | | Varicella | |
|------|-------------|--------|-------------|--------|-------------|--------|-----------|--------|
| | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| 1966 | 32,859 | NA | 1,497 | NA | NR | NR | NR | NA |
| 1967 | 38,909 | NA | 2,458 | NA | NR | NR | NR | NA |
| 1968 | 45,893 | NA | 4,829 | NA | NR | NR | NR | NA |
| 1969 | 48,416 | NA | 5,909 | NA | NR | NR | NR | NA |
| 1970 | 56,797 | NA | 8,310 | NA | NR | NR | NR | NA |
| 1971 | 59,606 | NA | 9,556 | NA | NR | NR | NR | NA |
| 1972 | 54,074 | NA | 9,402 | NA | NR | NR | 164,114 | 122 |
| 1973 | 50,749 | NA | 8,451 | NA | NR | NR | 182,927 | 138 |
| 1974 | 40,358 | NA | 10,631 | NA | NR | NR | 141,495 | 106 |
| 1975 | 35,855 | NA | 13,121 | NA | NR | NR | 154,248 | 83 |
| 1976 | 33,288 | NA | 14,973 | NA | NR | NR | 183,990 | 106 |
| 1977 | 31,153 | NA | 16,831 | NA | NR | NR | 188,396 | 89 |
| 1978 | 29,500 | NA | 15,016 | NA | NR | NR | 154,089 | 91 |
| 1979 | 30,407 | 129 | 15,452 | 260 | NR | NR | 199,081 | 103 |
| 1980 | 29,087 | 112 | 19,015 | 294 | NR | NR | 190,894 | 78 |
| 1981 | 25,802 | 93 | 21,152 | 394 | NR | NR | 200,766 | 84 |
| 1982 | 23,403 | 83 | 22,177 | 375 | NR | NR | 167,423 | 61 |
| 1983 | 21,532 | 82 | 24,318 | 438 | NR | NR | 177,462 | 57 |
| 1984 | 22,040 | 77 | 26,115 | 465 | NR | NR | 221,983 | 53 |
| 1985 | 23,210 | 80 | 26,611 | 490 | NR | NR | 178,162 | 68 |
| 1986 | 23,430 | 65 | 26,107 | 557 | NR | NR | 183,243 | 47 |
| 1987 | 25,280 | 77 | 25,916 | 595 | NR | NR | 213,196 | 89 |
| 1988 | 28,507 | 70 | 23,177 | 621 | NR | NR | 192,857 | 83 |
| 1989 | 35,821 | 88 | 23,419 | 711 | NR | NR | 185,441 | 89 |
| 1990 | 31,441 | 76 | 21,102 | 816 | NR | NR | 173,099 | 120 |
| 1991 | 24,378 | 71 | 18,003 | 912 | 2,764 | 17 | 147,076 | 81 |
| 1992 | 23,112 | 82 | 16,126 | 903 | 1,412 | 16 | 158,364 | 100 |
| 1993 | 24,238 | 95 | 13,361 | 1041 | 1,419 | 7 | 134,722 | 100 |
| 1994 | 26,796 | 97 | 12,517 | 1120 | 1,174 | 5 | 151,219 | 124 |
| 1995 | 31,582 | 142 | 10,805 | 1027 | 1,180 | 12 | 120,624 | 115 |
| 1996 | 31,032 | 121 | 10,637 | 1082 | 1,170 | 7 | 83,511 | 81 |
| 1997 | 30,021 | 127 | 10,416 | 1,030 | 1,162 | 7 | 98,727 | 99 |
| 1998 | 23,229 | 114 | 10,258 | 1,052 | 1,194 | 11 | 82,455 | 81 |
| 1999 | 17,047 | 134 | 7,694 | 832 | 1,309 | 6 | 46,016 | 48 |
| 2000 | 13,397 | 106 | 8,036 | 886 | 1,398 | 6 | 27,382 | 44 |
| 2001 | 10,609 | 83 | 7,843 | 769 | 1,597 | 11 | 22,536 | 26 |
| 2002 | 8,795 | 76 | 7,996 | 762 | 1,743 | 7 | 22,841 | 32 |
| 2003 | 7,653 | 54 | 7,526 | 685 | 2,013 | 5 | 20,948 | 16 |
| 2004 | 5,970 | 58 | 6,741 | 643 | 2,085 | 11 | 26,659 | 19 |

Appendix E

| Year | Hepatitis A | | Hepatitis B | | Haemophilus | | Varicella | | Meningococcal ACWY* | | Meningococcal B* | |
|------|-------------|--------|-------------|--------|-------------|--------|-----------|--------|---------------------|--------|------------------|--------|
| | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| 2005 | 4,488 | 43 | 5,119 | 642 | 2,304 | 4 | 32,242 | 13 | 297 | NA | 156 | NA |
| 2006 | 3,579 | 34 | 4,713 | 700 | 2,436 | 4 | 48,445 | 18 | 318 | NA | 193 | NA |
| 2007 | 2,979 | 34 | 4,519 | 719 | 2,541 | 10 | 40,146 | 6 | 325 | NA | 167 | NA |
| 2008 | 2,585 | 37 | 4,033 | 671 | 2,886 | 3 | 30,386 | 18 | 330 | NA | 188 | NA |
| 2009 | 1,987 | 26 | 3,405 | 597 | 3,022 | 7 | 20,480 | 22 | 301 | NA | 174 | NA |
| 2010 | 1,670 | 29 | 3,374 | 588 | 3,151 | 4 | 15,427 | 15 | 280 | NA | 135 | NA |
| 2011 | 1,398 | 25 | 2,903 | 614 | 3,539 | NA | 14,513 | 14 | 257 | NA | 159 | NA |
| 2012 | 1,562 | 23 | 2,895 | 581 | 3,418 | NA | 13,447 | 16 | 161 | NA | 110 | NA |
| 2013 | 1,781 | 24 | 3,050 | 573 | 3,792 | NA | 11,359 | 8 | 142 | NA | 99 | NA |
| 2014 | 1,239 | 26 | 2,791 | 535 | 3,541 | NA | 10,172 | 4 | 123 | NA | 89 | NA |
| 2015 | 1,390 | NA | 3,370 | NA | 4,138 | NA | 9,789 | NA | 120 | NA | 111 | NA |
| 2016 | 2,007 | NA | 3,218 | NA | 4,895 | NA | 8,953 | NA | 126 | NA | 86 | NA |

*Meningococcal cases were not separated by serogroup prior to 2005.

Notes

NA - Not Available

NR - Not nationally reportable

CRS: Congenital Rubella Syndrome

Prior to 1966, hepatitis A and B were not separated from other types of hepatitis. Prior to 1978, deaths from hepatitis A and B were not separated from deaths from other types of hepatitis.

Haemophilus (Hi) reporting includes all serotypes and all ages. In 2016, 159 cases of invasive Hi type b disease were reported among children younger than 5 years of age.

Varicella was removed from the nationally notifiable disease list in 1991. In 2015, varicella cases were reported from 47 states, the District of Columbia, New York City, Guam, Puerto Rico, the Northern Mariana Islands and the U.S. Virgin Islands.

Sources:

Final totals for nationally reportable infectious diseases are reported in *Morbidity and Mortality Weekly Report (MMWR)*. Tables are published for the previous year in August or September of the following year. Final totals for 2016 were published by the National Notifiable Diseases Surveillance System (NNDSS), accessible through *MMWR* 2017;66(38). CDC also publishes a more comprehensive surveillance document, the annual *Summary of Notifiable Diseases*. The most current annual summary was published on August 11, 2017 for calendar year 2015. This document and annual summaries for previous years are available on the MMWR website at <https://www.cdc.gov/mmwr/>.

Impact of Vaccines in the 20th & 21st Centuries

Comparison of 20th Century Annual Morbidity & Current Morbidity

| Disease | 20 th Century Annual Morbidity* | 2017 Reported Cases [†] | % Decrease |
|-------------------------------|--|----------------------------------|------------|
| Smallpox | 29,005 | 0 | 100% |
| Diphtheria | 21,053 | 0 | 100% |
| Pertussis | 200,752 | 15,808 | 92% |
| Tetanus | 580 | 31 | 95% |
| Polio (paralytic) | 16,316 | 0 | 100% |
| Measles | 530,217 | 122 | >99% |
| Mumps | 162,344 | 5,629 | 97% |
| Rubella | 47,745 | 9 | >99% |
| CRS | 152 | 2 | 99% |
| <i>Haemophilus influenzae</i> | 20,000 (est.) | 22 [§] | >99% |

* JAMA. 2007;298(18):2155-2163

† CDC. National Notifiable Diseases Surveillance System, Week 52, 2017 Weekly Tables of Infectious Disease Data. Atlanta, GA. CDC Division of Health Informatics and Surveillance, 2018. Available at: www.cdc.gov/nndss/infectious-tables.html. Accessed on January 4, 2018.

§ *Haemophilus influenzae* type b (Hib) <5 years of age. An additional 11 cases of Hib are estimated to have occurred among the 237 notifications of Hi (<5 years of age) with unknown serotype.

Comparison of Pre-Vaccine Era Estimated Annual Morbidity with Current Estimate

| Disease | Pre-Vaccine Era Annual Estimate | 2015 Estimate (unless otherwise specified) | % Decrease |
|--|---------------------------------|--|------------|
| Hepatitis A | 117,333* | 2,500 [†] | 98% |
| Hepatitis B (acute) | 66,232* | 19,200 [†] | 71% |
| Pneumococcus (invasive) | | | |
| All ages | 63,067* | 29,000 [¶] | 54% |
| <5 years of age | 16,069* | 1,800 [¶] | 89% |
| Rotavirus (hospitalizations <3 years of age) | 62,500 [‡] | 11,250 [§] | 82% |
| Varicella | 4,085,120* | 126,639 ^{††} | 97% |

* JAMA. 2007;298(18):2155-2163

† CDC. Viral Hepatitis Surveillance – United States, 2014

¶ CDC. Unpublished. Active Bacterial Core surveillance. 2015

‡ CDC. MMWR. February 6, 2009 / 58(RR02); 1-25

§ New Vaccine Surveillance Network 2015 data (unpublished); U.S. rotavirus disease now has biennial pattern

†† CDC. MMWR. November 25, 2016 / 65(46);1306-1321 (2015 final data)

Appendix E

Vaccine Coverage Levels – United States, 1962-2016

| Year | DTP 3+ | DTP4+ | Polio 3+ | MMR* | Hib3+ | Var | PCV3+ | HepB3+ | Rota | Combined 4-3-1 | Combined 4-3-1-3 |
|-------------------|--------|-------|----------|------|-------|------|-------|--------|------|----------------|------------------|
| 1962 | 67.3 | | | | | | | | | | |
| 1963 | 71.4 | | | | | | | | | | |
| 1964 | 74.6 | | | | | | | | | | |
| 1965 | 72.7 | | | | | | | | | | |
| 1966 | 74.0 | | | | | | | | | | |
| 1967 | 77.9 | | | 60.0 | | | | | | | |
| 1968 | 76.8 | | | 61.5 | | | | | | | |
| 1969 | 77.4 | | | 61.4 | | | | | | | |
| 1970 | 76.4 | | | 58.4 | | | | | | | |
| 1971 | 77.8 | | | 62.2 | | | | | | | |
| 1972 | 74.1 | | | 62.8 | | | | | | | |
| 1973 | 71.7 | | 59.5 | 61.0 | | | | | | | |
| 1974 | 72.4 | | 60.0 | 63.4 | | | | | | | |
| 1975 | 73.2 | | 63.6 | 65.5 | | | | | | | |
| 1976 | 72.7 | | 61.3 | 66.3 | | | | | | | |
| 1977 | 69.6 | | 62.6 | 65.0 | | | | | | | |
| 1978 | 66.6 | | 59.5 | 63.6 | | | | | | | |
| 1979 | 64.4 | | 59.7 | 66.5 | | | | | | | |
| 1980 | 66.0 | | 58.9 | 66.6 | | | | | | | |
| 1981 | 68.1 | | 59.2 | 66.8 | | | | | | | |
| 1982 | 67.1 | | 57.0 | 67.6 | | | | | | | |
| 1983 | 65.4 | | 56.9 | 66.3 | | | | | | | |
| 1984 | 65.0 | | 53.2 | 65.8 | | | | | | | |
| 1985 | 63.6 | | 53.6 | 61.2 | | | | | | | |
| 1986 [†] | | | | | | | | | | | |
| 1987 [†] | | | | | | | | | | | |
| 1988 [†] | | | | | | | | | | | |
| 1989 [†] | | | | | | | | | | | |
| 1990 [†] | | | | | | | | | | | |
| 1991 | 68.8 | | 53.2 | 82.0 | | | | | | | |
| 1992 | 83.0 | 59.0 | 72.4 | 82.5 | 28.2 | | | 8.0 | | 68.7 | 55.3 |
| 1993 | 88.2 | 72.1 | 78.9 | 84.1 | 55.0 | | | 16.3 | | 67.1 | |
| 1994 | 93.0 | 77.7 | 83.0 | 89.0 | 86.0 | | | 37.0 | | 75.0 | |
| 1995 | 94.7 | 78.5 | 87.9 | 87.6 | 91.7 | | | 68.0 | | 76.2 | 74.2 |
| 1996 | 95.0 | 81.1 | 91.1 | 90.7 | 91.7 | 16.0 | | 81.8 | | 78.4 | 76.5 |
| 1997 | 95.5 | 81.5 | 90.8 | 90.5 | 92.7 | 25.9 | | 83.7 | | 77.9 | 76.2 |
| 1998 | 95.6 | 83.9 | 90.8 | 92.0 | 93.4 | 43.2 | | 87.0 | | 80.6 | 79.2 |
| 1999 | 95.9 | 83.3 | 89.6 | 91.5 | 93.5 | 57.5 | | 88.1 | | 79.9 | 78.4 |
| 2000 | 94.1 | 81.7 | 89.5 | 90.5 | 93.4 | 67.8 | | 90.3 | | 77.6 | 76.2 |
| 2001 | 94.3 | 82.1 | 89.4 | 91.4 | 93.0 | 76.3 | | 88.9 | | 78.6 | 77.2 |
| 2002 | 94.9 | 81.6 | 90.2 | 91.6 | 93.1 | 80.6 | 40.8 | 88.9 | | 78.5 | 77.5 |
| 2003 | 96.0 | 84.8 | 91.6 | 93.0 | 93.9 | 84.8 | 68.1 | 92.4 | | 82.2 | 81.3 |
| 2004 | 95.9 | 85.5 | 91.6 | 93.0 | 93.5 | 87.5 | 73.2 | 92.4 | | 83.5 | 82.5 |
| 2005 | 96.1 | 85.7 | 91.7 | 91.5 | 93.9 | 87.9 | 82.8 | 92.9 | | 83.1 | 82.4 |
| 2006 | 95.8 | 85.2 | 92.9 | 92.4 | 93.4 | 89.3 | 87.0 | 93.4 | | 83.2 | 82.3 |
| 2007 | 95.5 | 84.5 | 92.6 | 92.3 | 92.6 | 90.0 | 90.0 | 92.7 | | 82.8 | 81.1 |
| 2008 | 96.2 | 84.6 | 93.6 | 92.1 | 90.9 | 90.7 | 92.8 | 93.5 | | 82.5 | 79.6 |
| 2009 | 94.0 | 83.9 | 92.8 | 90.0 | 92.1 | 89.6 | 92.6 | 92.4 | 43.9 | 81.5 | 50.6 |
| 2010 | 95.0 | 84.4 | 93.3 | 91.5 | 90.4 | 90.4 | 92.6 | 91.8 | 59.2 | 82.0 | 78.8 |
| 2011 | 95.5 | 84.6 | 93.9 | 91.6 | 94.0 | 90.8 | 93.6 | 91.1 | 67.3 | 82.6 | 81.9 |
| 2012 | 94.3 | 82.5 | 92.8 | 90.8 | 93.0 | 90.2 | 92.3 | 89.7 | 68.6 | 80.5 | 76.0 |
| 2013 | 94.1 | 83.1 | 92.7 | 91.9 | 92.8 | 91.2 | 92.4 | 90.8 | 72.6 | 81.5 | 77.1 |
| 2014 | 94.7 | 84.2 | 93.3 | 91.5 | 92.6 | 91.0 | 92.6 | 91.6 | 71.7 | 82.6 | 77.7 |
| 2015 | 95.0 | 84.6 | 93.7 | 91.9 | 93.2 | 91.8 | 93.3 | 92.6 | 73.2 | 83.2 | 77.7 |
| 2016 | 93.7 | 83.4 | 91.1 | 91.1 | 91.6 | 90.6 | 91.8 | 90.5 | 74.1 | 81.9 | 76.8 |

*Previously reported as measles-containing vaccine (MCV)

†No national coverage data were collected from 1986 through 1990.

Combined 4-3-1: Four or more doses of DTP/DTaP/DT, three or more doses of poliovirus vaccine, and one or more doses of any measles-containing vaccine.

Combined 4-3-1-3: Four or more doses of DTP/DTaP/DT, three or more doses of poliovirus vaccine, one or more doses of any measles-containing vaccine, and three or more doses of *Haemophilus influenzae* type b vaccine.

Data prior to 1993 were collected by the National Health Interview Survey and represent 2-year-old children. Data from 1993 forward are from the National Immunization Survey and represent 19-35 month-old children. Different methods were used for the two surveys.

Data are available for vaccines and combinations of vaccines not reflected on this table. For more information about annual coverage figures from 1995 to the present, see <https://www.cdc.gov/vaccines/imz-managers/coverage/childvaxview/data-reports/index.html>.