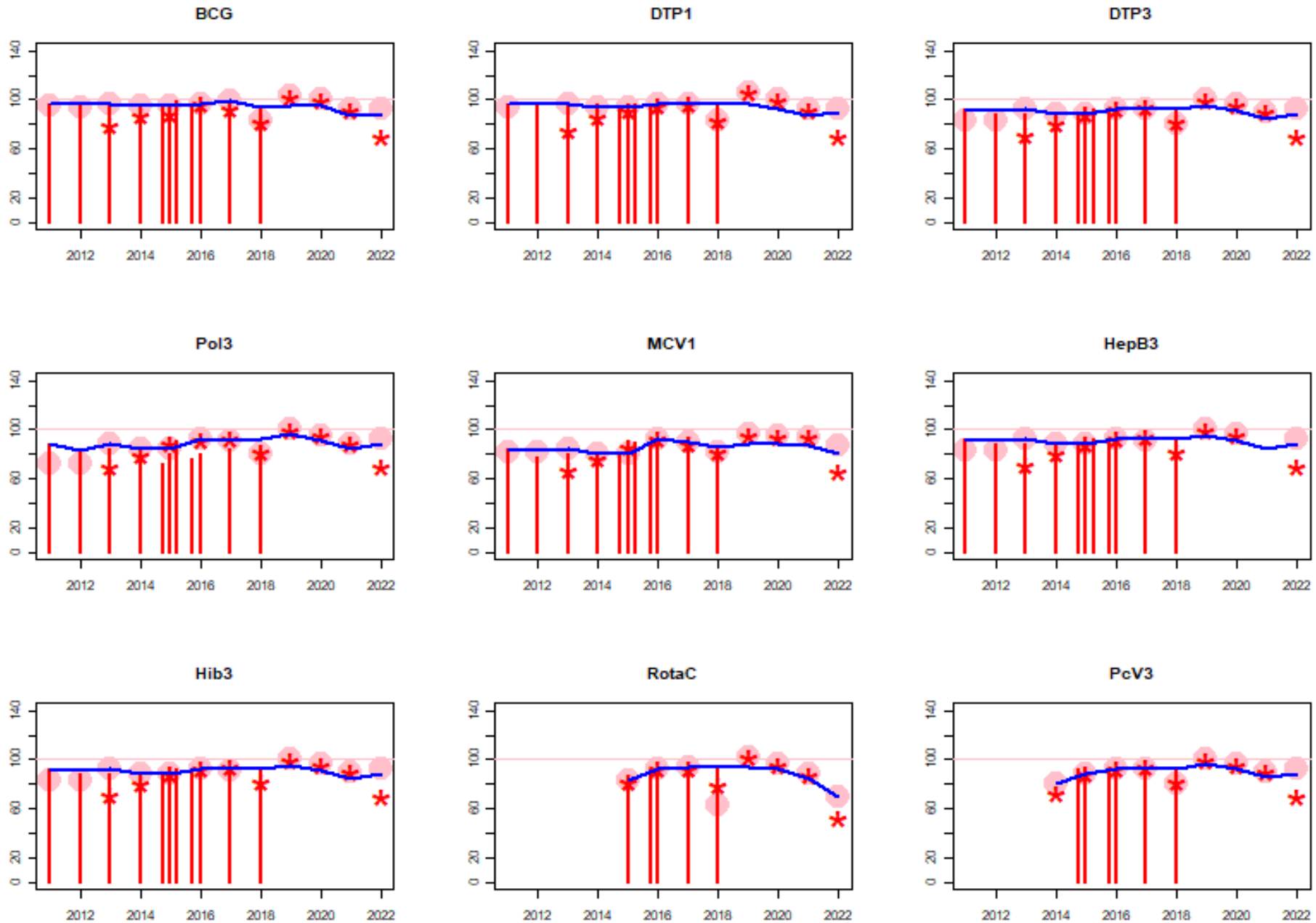


Senegal: WHO and UNICEF estimates of immunization coverage: 2022 revision



BACKGROUND NOTE: Each year WHO and UNICEF jointly review reports submitted by Member States regarding national immunization coverage, finalized survey reports as well as data from the published and grey literature. Based on these data, with due consideration to potential biases and the views of local experts, WHO and UNICEF attempt to distinguish between situations where the available empirical data accurately reflect immunization system performance and those where the data are likely to be compromised and present a misleading view of immunization coverage while jointly estimating the most likely coverage levels for each country.

WHO and UNICEF estimates are country-specific; that is to say, each country's data are reviewed individually, and data are not borrowed from other countries in the absence of data. Estimates are not based on ad hoc adjustments to reported data; in some instances empirical data are available from a single source, usually the nationally reported coverage data. In cases where no data are available for a given country/vaccine/year combination, data are considered from earlier and later years and interpolated to estimate coverage for the missing year(s). In cases where data sources are mixed and show large variation, an attempt is made to identify the most likely estimate with consideration of the possible biases in available data. For methods see:

*Burton et al. 2009. WHO and UNICEF estimates of national infant immunization coverage: methods and processes.

*Burton et al. 2012. A formal representation of the WHO and UNICEF estimates of national immunization coverage: a computational logic approach.

*Brown et al. 2013. An introduction to the grade of confidence used to characterize uncertainty around the WHO and UNICEF estimates of national immunization coverage.

DATA SOURCES.

ADMINISTRATIVE coverage: Reported by national authorities and based on aggregated administrative reports from health service providers on the number of vaccinations administered during a given period (numerator data) and reported target population data (denominator data). May be biased by inaccurate numerator and/or denominator data.

OFFICIAL coverage: Estimated coverage reported by national authorities that reflects their assessment of the most likely coverage based on any combination of administrative coverage, survey-based estimates or other data sources or adjustments. Approaches to determine OFFICIAL coverage may differ across countries.

SURVEY coverage: Based on estimated coverage from population-based household surveys among children aged 12-23 months or 24-35 months following a review of survey methods and results. Information is based on the combination of vaccination history from documented evidence or caregiver recall. Survey results are considered for the appropriate birth cohort based on the period of data collection.

ABBREVIATIONS

BCG: percentage of births who received one dose of Bacillus Calmette Guerin vaccine.

DTP1 / DTP3: percentage of surviving infants who received the 1st / 3rd dose, respectively, of diphtheria and tetanus toxoid with pertussis containing vaccine.

Pol3: percentage of surviving infants who received the 3rd dose of polio containing vaccine. May be either oral or inactivated polio vaccine.

IPV1: percentage of surviving infants who received at least one dose of inactivated polio vaccine. In countries utilizing an immunization schedule recommending either (i) a primary series of three doses of oral polio vaccine (OPV) plus at least one dose of IPV where OPV is included in routine

immunization and/or campaign or (ii) a sequential schedule of IPV followed by OPV, WHO and UNICEF estimates for IPV1 reflect coverage with at least one routine dose of IPV among infants <1 year of age among countries. For countries utilizing IPV containing vaccine use only, i.e., no recommended dose of OPV, the WHO and UNICEF estimate for IPV1 corresponds to coverage for the 1st dose of IPV.

Production of IPV coverage estimates, which begins in 2015, results in no change of the estimated coverage levels for the 3rd dose of polio (Pol3). For countries recommending routine immunization with a primary series of three doses of IPV alone, WHO and UNICEF estimated Pol3 coverage is equivalent to estimated coverage with three doses of IPV. For countries with a sequential schedule, estimated Pol3 coverage is based on that for the 3rd dose of polio vaccine regardless of vaccine type.

MCV1: percentage of surviving infants who received the 1st dose of measles containing vaccine. In countries where the national schedule recommends the 1st dose of MCV at 12 months or later based on the epidemiology of disease in the country, coverage estimates reflect the percentage of children who received the 1st dose of MCV as recommended.

MCV2: percentage of children who received the 2nd dose of measles containing vaccine according to the nationally recommended schedule.

RCV1: percentage of surviving infants who received the 1st dose of rubella containing vaccine. Coverage estimates are based on WHO and UNICEF estimates of coverage for the dose of measles containing vaccine that corresponds to the first measles-rubella combination vaccine. Nationally reported coverage of RCV is not taken into consideration nor are the data represented in the accompanying graph and data table.

HepBB: percentage of births which received a dose of hepatitis B vaccine within 24 hours of delivery. Estimates of hepatitis B birth dose coverage are produced only for countries with a universal birth dose policy. Estimates are not produced for countries that recommend a birth dose to infants born to HepB virus-infected mothers only or where there is insufficient information to determine whether vaccination is within 24 hours of birth.

HepB3: percentage of surviving infants who received the 3rd dose of hepatitis B containing vaccine following the birth dose.

Hib3: percentage of surviving infants who received the 3rd dose of Haemophilus influenzae type b containing vaccine.

RotaC: percentage of surviving infants who received the final recommended dose of rotavirus vaccine, which can be either the 2nd or the 3rd dose depending on the vaccine.

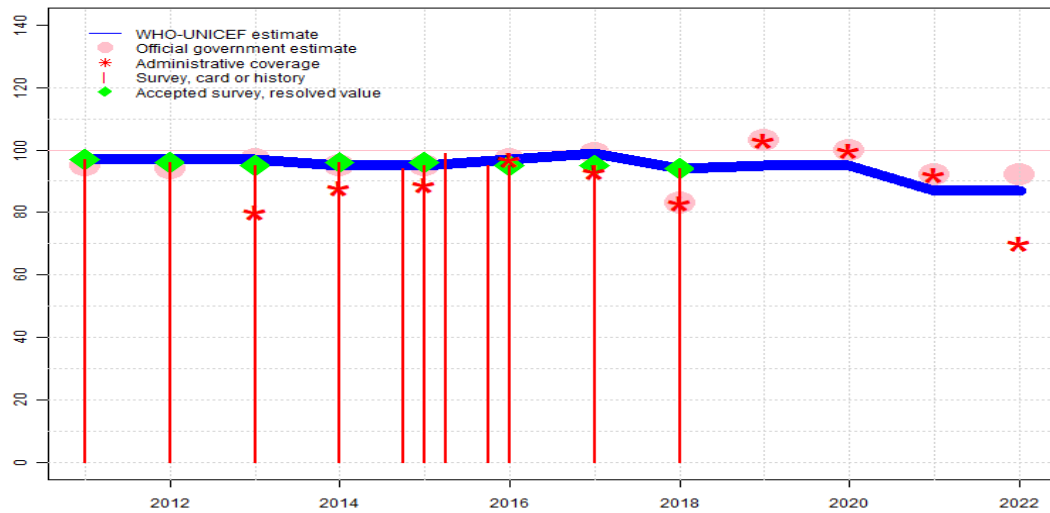
PcV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect the percentage of surviving infants who received two doses of PcV prior to the 1st birthday.

YFV: percentage of surviving infants who received one dose of yellow fever vaccine in countries where YFV is part of the national immunization schedule for children or is recommended in at risk areas; coverage estimates are annualized for the entire cohort of surviving infants.

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Senegal - BCG

SEN - BCG



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 97 | 97 | 97 | 95 | 95 | 97 | 99 | 94 | 95 | 95 | 87 | 87 |
| Estimate GoC | ●● | ●● | ● | ●●● | ●●● | ●●● | ●●● | ● | ● | ● | ● | ● |
| Official | 95 | 94 | 97 | 95 | 95 | 97 | 99 | 83 | 103 | 100 | 92 | 92 |
| Administrative | NA | NA | 80 | 88 | 89 | 97 | 93 | 83 | 103 | 100 | 92 | 70 |
| Survey | 97 | 96 | 95 | 96 | * | * | 95 | 94 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

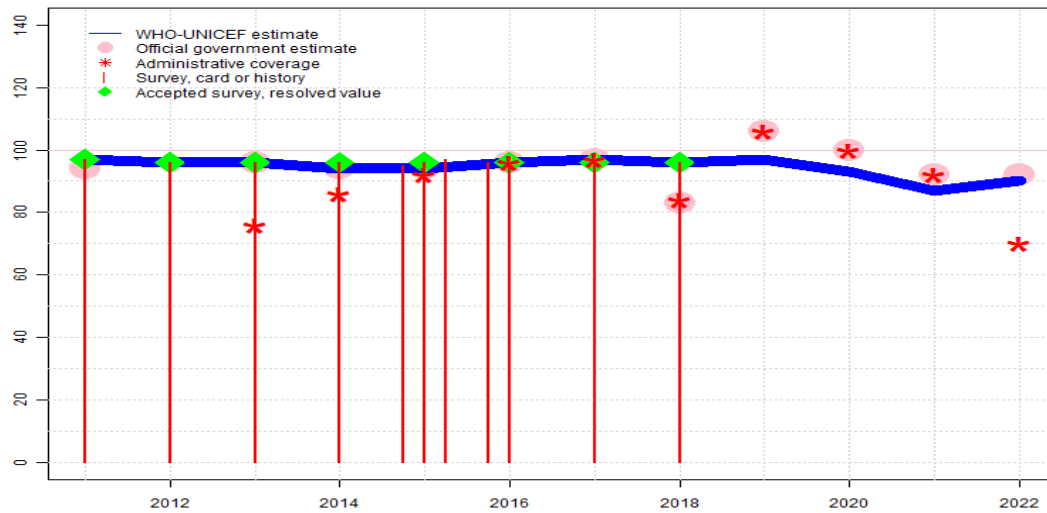
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2022: Reported data calibrated to 2018 levels. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: D-R-
- 2021: Reported data calibrated to 2018 levels. Estimate challenged by: D-R-
- 2020: Reported data calibrated to 2018 levels. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2018 levels. Reported data excluded because 103 percent greater than 100 percent. Reported data may include catch-up doses following health-care worker strikes in 2018. Estimate challenged by: D-R-
- 2018: Estimate of 94 percent assigned by working group. Estimate based on survey results. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Reported data excluded due to decline in reported coverage from 99 percent to 83 percent with increase to 103 percent. Estimate challenged by: R-
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 95 percent based on 1 survey(s). Programme reports four months stockout at national level. GoC=R+ S+ D+
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 95 percent based on 2 survey(s). Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. GoC=R+ S+ D+
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 3 survey(s). Programme reports one month national level stockout. GoC=R+ S+ D+
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 95 percent based on 1 survey(s). Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Official government estimates are based on 2013 survey results. Estimate challenged by: D-
- 2012: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 96 percent based on 1 survey(s). Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. GoC=R+ S+
- 2011: Estimates are based on final 2011 DHS results. Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. GoC=R+ S+

Senegal - DTP1

SEN - DTP1



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 97 | 96 | 96 | 94 | 94 | 96 | 97 | 96 | 97 | 93 | 87 | 90 |
| Estimate GoC | • | •• | • | ••• | ••• | ••• | ••• | • | • | • | • | • |
| Official | 94 | NA | 96 | 94 | 94 | 96 | 97 | 83 | 106 | 100 | 92 | 92 |
| Administrative | NA | NA | 76 | 86 | 92 | 96 | 97 | 84 | 106 | 100 | 92 | 70 |
| Survey | 97 | 96 | 96 | 96 | * | * | 96 | 96 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

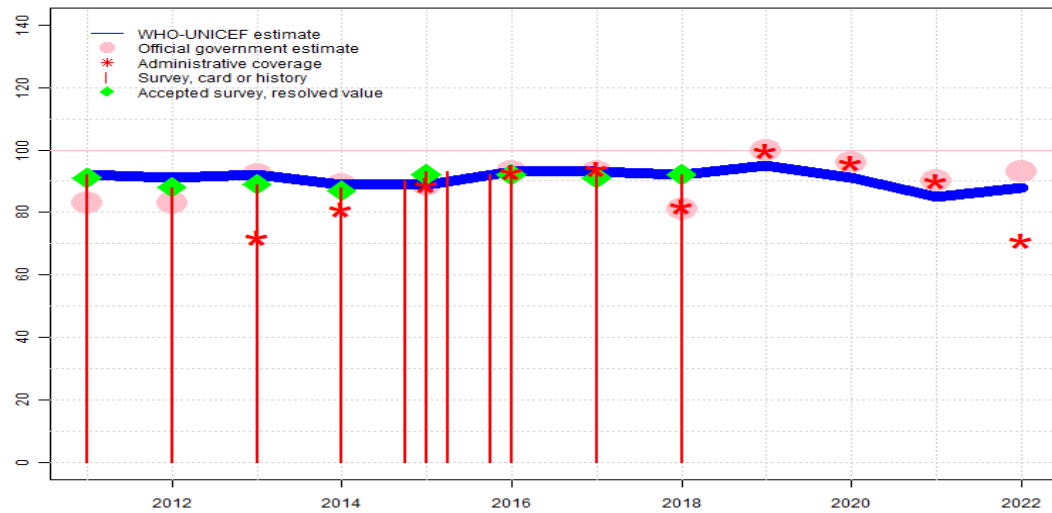
- 2022: Reported data calibrated to 2018 levels. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: D-R-
- 2021: Estimate is based on trend in reported coverage. Estimate challenged by: D-R-
- 2020: Estimate reflects decline trend in reported coverage 2019 to 2020 for most vaccine doses. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2018 levels. Reported data excluded because 106 percent greater than 100 percent. Reported data may include catch-up doses following health-care worker strikes in 2018. Estimate challenged by: D-R-
- 2018: Estimate of 96 percent assigned by working group. Estimate based on survey results. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Reported data excluded due to decline in reported coverage from 97 percent to 83 percent with increase to 106 percent. Programme reports a one month vaccine stockout at the national level. Estimate challenged by: R-
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 1 survey(s). Programme reports three months stockout at national level. GoC=R+ S+ D+
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 2 survey(s). Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. GoC=R+ S+ D+
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 3 survey(s). GoC=R+ S+ D+
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 1 survey(s). Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Official government estimates are based on 2013 survey results. Estimate challenged by: D-
- 2012: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 96 percent based on 1 survey(s). Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. GoC=S+
- 2011: Estimate of 97 percent assigned by working group. Estimates are based on final 2011 DHS results. Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Estimate

Senegal - DTP1

challenged by: R-

Senegal - DTP3

SEN - DTP3



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 92 | 91 | 92 | 89 | 89 | 93 | 93 | 92 | 95 | 91 | 85 | 88 |
| Estimate GoC | • | •• | • | ••• | ••• | ••• | ••• | • | • | • | • | • |
| Official | 83 | 83 | 92 | 89 | 89 | 93 | 93 | 81 | 100 | 96 | 90 | 93 |
| Administrative | NA | NA | 72 | 81 | 89 | 93 | 94 | 82 | 100 | 96 | 90 | 71 |
| Survey | 92 | 88 | 89 | 88 | * | * | 93 | 92 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2022: Reported data calibrated to 2018 levels. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: D-R-
- 2021: Reported data calibrated to 2018 levels. Estimate challenged by: D-R-
- 2020: Reported data calibrated to 2018 levels. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2018 levels. Reported data may include catch-up doses following healthcare worker strikes in 2018. Estimate challenged by: D-R-
- 2018: Estimate of 92 percent assigned by working group. Estimate based on survey results. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Reported data excluded due to decline in reported coverage from 93 percent to 81 percent with increase to 100 percent. Programme reports a one month vaccine stockout at the national level. Estimate challenged by: R-
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 91 percent based on 1 survey(s). Senegal Demographic and Health Survey (Continuous) 2018 card or history results of 93 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 80 percent and 3rd dose card only coverage of 76 percent. Programme reports three months stockout at national level. GoC=R+ S+ D+
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 2 survey(s). Senegal Demographic and Health Survey 2017 card or history results of 92 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 79 percent and 3rd dose card only coverage of 75 percent. Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. GoC=R+ S+ D+
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 3 survey(s). GoC=R+ S+ D+
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 87 percent based on 1 survey(s). Senegal Demographic and Health Survey 2015 (Continuous) card or history results of 88 percent modified for recall bias to 87 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 73 percent and 3rd dose card only coverage of 66 percent. GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 89 percent based on 1 survey(s). Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Official government estimates are based on 2013 survey results. Estimate challenged by: D-
- 2012: Estimate informed by interpolation between reported data supported by survey. Sur-

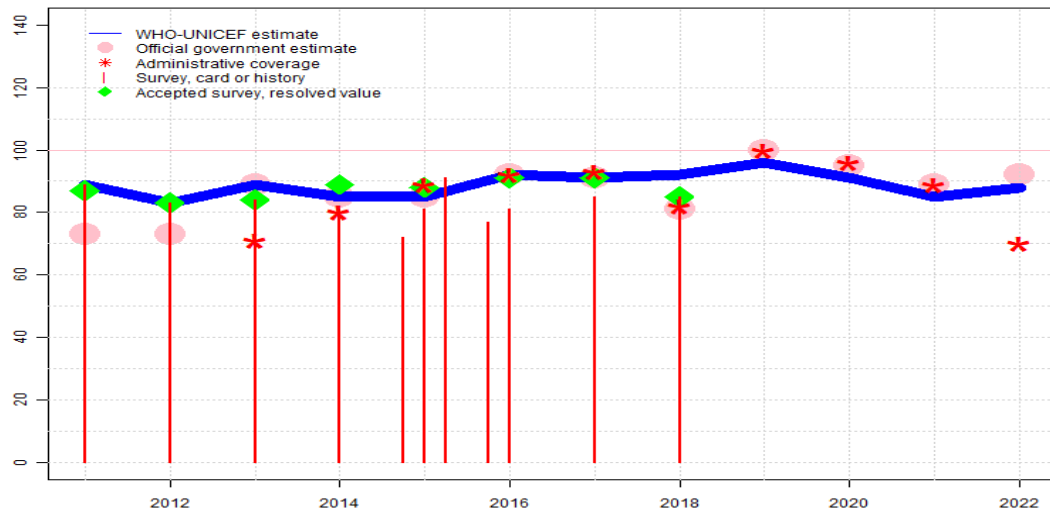
Senegal - DTP3

vey evidence of 88 percent based on 1 survey(s). Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. GoC=R+ S+

2011: Estimate of 92 percent assigned by working group. Estimates are based on final 2011 DHS results. Senegal National EPI Coverage Survey, 2013 card or history results of 92 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 78 percent and 3rd dose card only coverage of 73 percent. Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Estimate challenged by: R-S-

Senegal - Pol3

SEN - Pol3



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 89 | 83 | 89 | 85 | 85 | 92 | 91 | 92 | 96 | 91 | 85 | 88 |
| Estimate GoC | • | •• | • | ••• | • | ••• | ••• | • | • | • | • | • |
| Official | 73 | 73 | 89 | 85 | 85 | 92 | 91 | 81 | 100 | 95 | 89 | 92 |
| Administrative | NA | NA | 71 | 80 | 89 | 92 | 93 | 82 | 100 | 96 | 89 | 70 |
| Survey | 89 | 83 | 84 | 81 | * | * | 85 | 85 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2022: Reported data calibrated to 2018 levels. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: D-R-
- 2021: Reported data calibrated to 2018 levels. Programme reports less than one month vaccine stockout at national level. Estimate of 85 percent changed from previous revision value of 78 percent. Estimate challenged by: D-R-
- 2020: Reported data calibrated to 2018 levels. Estimate of 91 percent changed from previous revision value of 84 percent. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2018 levels. Reported data may include catch-up doses following healthcare worker strikes in 2018. Estimate of 96 percent changed from previous revision value of 89 percent. Estimate challenged by: D-R-S-
- 2018: Estimate of 92 percent assigned by working group. Estimate based on DTP3 survey results to reflect consistency between vaccines recommended to be given at the same age. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Programme reports a two months vaccine stockout at the national level. Estimate of 92 percent changed from previous revision value of 85 percent. Estimate challenged by: R-
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 91 percent based on 1 survey(s). Senegal Demographic and Health Survey (Continuous) 2018 card or history results of 85 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 80 percent and 3rd dose card only coverage of 76 percent. GoC=R+ S+ D+
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 91 percent based on 2 survey(s). Senegal Demographic and Health Survey 2017 card or history results of 81 percent modified for recall bias to 90 percent based on 1st dose card or history coverage of 95 percent, 1st dose card only coverage of 79 percent and 3rd dose card only coverage of 75 percent. Senegal Demographic and Health Survey (Continuous) 2018 card or history results of 77 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 62 percent and 3rd dose card only coverage of 60 percent. Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Élevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. GoC=R+ S+ D+
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 88 percent based on 3 survey(s). Senegal Demographic and Health Survey 2017 card or history results of 72 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 62 percent and 3rd dose card only coverage of 60 percent. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 89 percent based on 1 survey(s). Senegal Demographic and Health Survey 2015 (Continuous) card

Senegal - Pol3

or history results of 81 percent modified for recall bias to 89 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 73 percent and 3rd dose card only coverage of 67 percent. GoC=R+ S+ D+

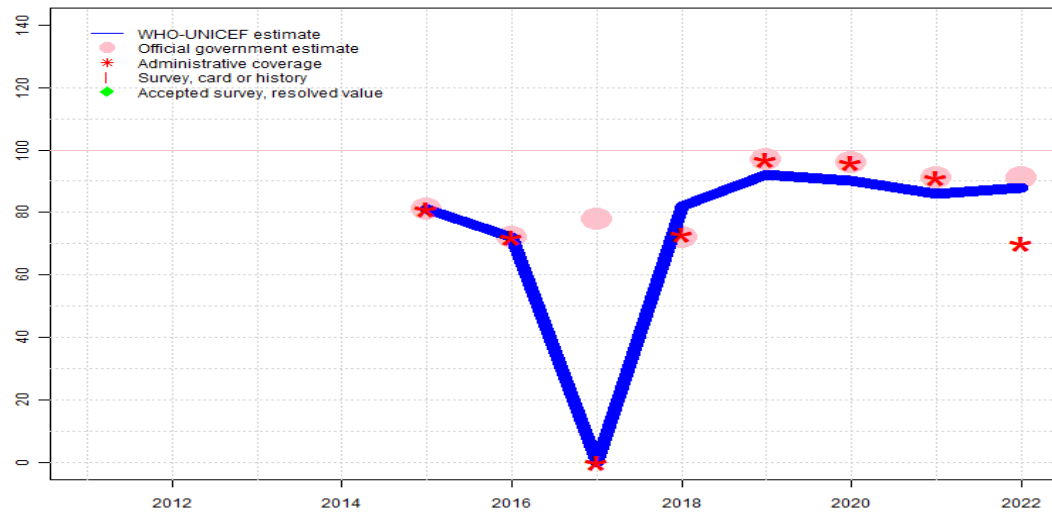
2013: Estimate is based on official government estimate. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Official government estimates are based on 2013 survey results. Estimate challenged by: D-

2012: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 83 percent based on 1 survey(s). Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. GoC=R+ S+

2011: Estimate of 89 percent assigned by working group. Estimates are based on final 2011 DHS results. Senegal National EPI Coverage Survey, 2013 card or history results of 89 percent modified for recall bias to 87 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 65 percent and 3rd dose card only coverage of 60 percent. Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Estimate challenged by: R-

Senegal - IPV1

SEN - IPV1



Description:

Estimates for a dose of inactivated polio vaccine (IPV) begin in 2015 following the Global Polio Eradication Initiative's Polio Eradication and Endgame Strategic Plan: 2013-2018 which recommended at least one full dose or two fractional doses of IPV into routine immunization schedules as a strategy to mitigate the potential consequences should any re-emergence of type 2 poliovirus occur following the planned withdrawal of Sabin type 2 strains from oral polio vaccine (OPV).

- 2022: Estimate informed by estimated DTP3 coverage. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: D-R-
- 2021: Estimate is based on the difference between reported coverage for IPV1 and DTP3 applied to estimated DTP3 coverage. Estimate challenged by: D-R-
- 2020: Estimate is based on difference between reported coverage for DTP3 and IPV1 applied to estimated DTP3 coverage. Estimate challenged by: D-R-
- 2019: Estimate is based on difference between reported coverage for DTP3 and IPV1 applied to estimated DTP3 coverage. Reported data may include catch-up doses following healthcare worker strikes in 2018. Estimate challenged by: D-R-
- 2018: Estimate is based on difference between reported coverage for DTP3 and IPV1 applied to estimated DTP3 coverage. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Estimate challenged by: R-
- 2017: Estimate informed by reported administrative data. Programme reports twelve month stockout at national level. Official estimate does not take into account 2017 stockout at national level. GoC=R+ D+
- 2016: Estimate informed by reported data. Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. Programme reports five month stockout at national level. GoC=R+ D+
- 2015: Estimate informed by reported data. Inactivated polio vaccine introduced during January 2015. GoC=R+ D+

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | NA | NA | 81 | 72 | 0 | 82 | 92 | 90 | 86 | 88 |
| Estimate GoC | NA | NA | NA | NA | •• | •• | •• | • | • | • | • | • |
| Official | NA | NA | NA | NA | 81 | 72 | 78 | 72 | 97 | 96 | 91 | 91 |
| Administrative | NA | NA | NA | NA | 81 | 72 | 0 | 73 | 97 | 96 | 91 | 70 |
| Survey | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

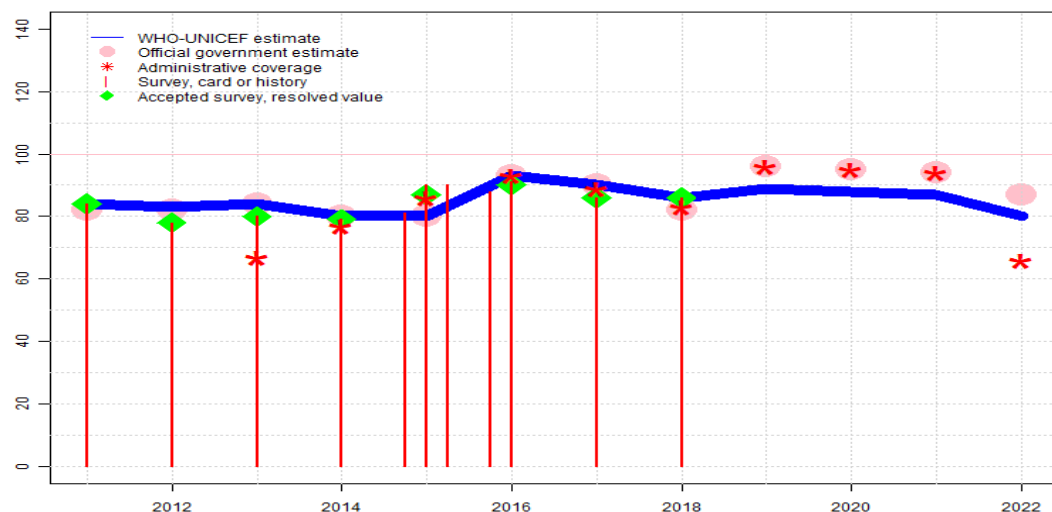
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Senegal - MCV1

SEN - MCV1



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 84 | 83 | 84 | 80 | 80 | 93 | 90 | 86 | 89 | 88 | 87 | 80 |
| Estimate GoC | • | •• | • | ••• | • | • | ••• | • | • | • | • | • |
| Official | 82 | 82 | 84 | 80 | 80 | 93 | 90 | 82 | 96 | 95 | 94 | 87 |
| Administrative | NA | NA | 67 | 77 | 86 | 93 | 89 | 83 | 96 | 95 | 94 | 66 |
| Survey | 84 | 78 | 80 | 79 | * | * | 86 | 86 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

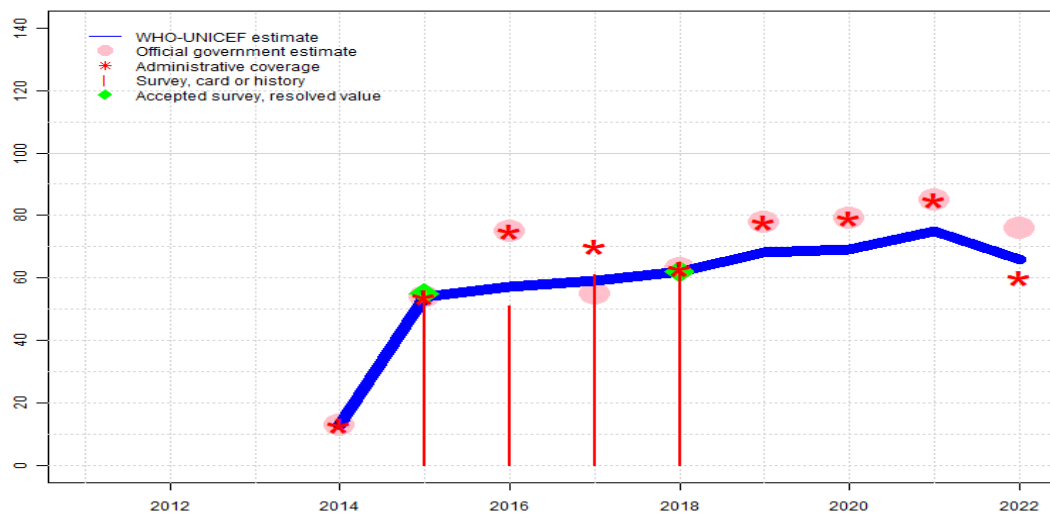
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2022: Reported data calibrated to 2018 levels. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: R-
- 2021: Reported data calibrated to 2018 levels. Estimate challenged by: D-R-
- 2020: Reported data calibrated to 2018 levels. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2018 levels. Reported data may include catch-up doses following healthcare worker strikes in 2018. Estimate challenged by: D-R-
- 2018: Estimate of 86 percent assigned by working group. Estimate based on survey results. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Estimate challenged by: R-
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 86 percent based on 1 survey(s). Programme reports one month stockout at national level. GoC=R+ S+ D+
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 90 percent based on 2 survey(s). Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l Habitat de l Agriculture et de l Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. Reported number of children vaccinated increased from 2015 to 2016. Rapid increase in coverage is likely an artefact of a decrease in reported target population rather than a true increase in performance for MCV1. Estimated coverage is likely an overestimate. Estimate challenged by: S-
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 87 percent based on 3 survey(s). Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 79 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 80 percent based on 1 survey(s). Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Official government estimates are based on 2013 survey results. Estimate challenged by: D-
- 2012: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 78 percent based on 1 survey(s). Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. GoC=R+ S+
- 2011: Estimate of 84 percent assigned by working group. Estimates are based on final 2011 DHS results. Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Estimate challenged by: R-

Senegal - MCV2

SEN - MCV2



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | NA | 13 | 54 | 57 | 59 | 62 | 68 | 69 | 75 | 66 |
| Estimate GoC | NA | NA | NA | • | ••• | • | • | • | • | • | • | • |
| Official | NA | NA | NA | 13 | 54 | 75 | 55 | 63 | 78 | 79 | 85 | 76 |
| Administrative | NA | NA | NA | 13 | 54 | 75 | 70 | 63 | 78 | 79 | 85 | 60 |
| Survey | NA | NA | NA | NA | 55 | 51 | 61 | 62 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

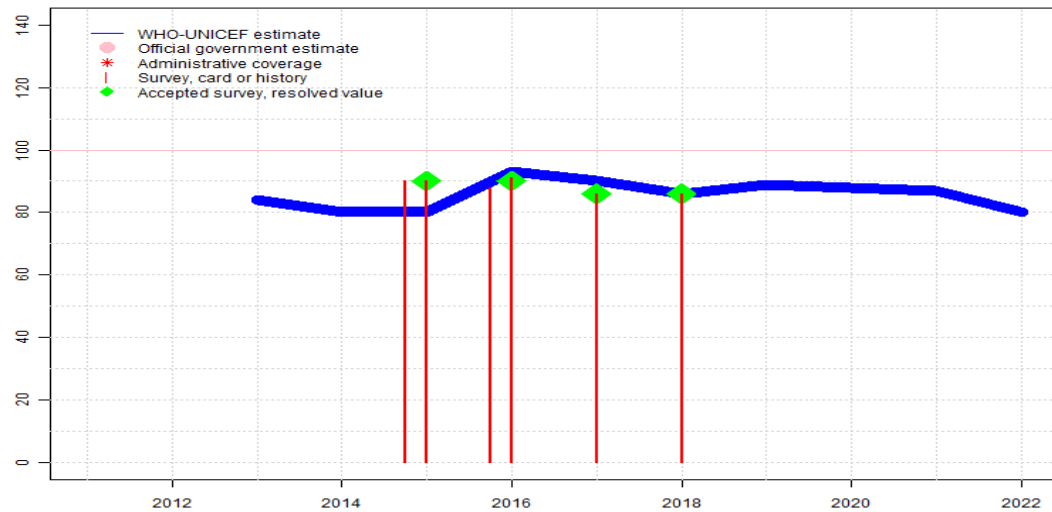
Description:

Coverage estimates for the second dose of measles containing vaccine are for children by the nationally recommended age.

- 2022: Reported data calibrated to 2018 levels. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: R-
- 2021: Reported data calibrated to 2018 levels. Estimate challenged by: D-R-
- 2020: Reported data calibrated to 2018 levels. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2018 levels. Reported data may include catch-up doses following healthcare worker strikes in 2018. Reported data include catch-up doses following healthcare worker strikes in 2018. Estimate challenged by: D-R-
- 2018: Estimate of 62 percent assigned by working group. Estimate based on survey results. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Estimate challenged by: R-
- 2017: Estimate informed by interpolation between 2015 and 2018 levels. Inconsistent trend in reported coverage. Senegal Demographic and Health Survey (Continuous) 2018 results ignored by working group. Estimate based on reported data for consistency with other antigens. Reported data excluded. Official estimate may not consider recent dose introduction. Programme reports one month stockout at national level. Estimate challenged by: D-R-
- 2016: Estimate informed by interpolation between 2015 and 2018 levels. Inconsistent trend in reported coverage. Senegal Demographic and Health Survey 2017 results ignored by working group. Estimate based on reported data for consistency with other antigens. Reported data excluded. Reported data excluded due to an increase from 54 percent to 75 percent with decrease 55 percent. Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. Estimate challenged by: D-R-
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 55 percent based on 1 survey(s). Reported coverage for national target population following introduction in 2014. GoC=R+ S+ D+
- 2014: Estimate informed by reported data. Introduced in national schedule in October 2014 as MR vaccine with recommended administration at 15 months. GoC=Assigned by working group. Introduction period.

Senegal - RCV1

SEN - RCV1



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | 84 | 80 | 80 | 93 | 90 | 86 | 89 | 88 | 87 | 80 |
| Estimate GoC | NA | NA | • | ••• | • | • | ••• | • | • | • | • | • |
| Official | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Administrative | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Survey | NA | NA | NA | NA | * | * | 86 | 86 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

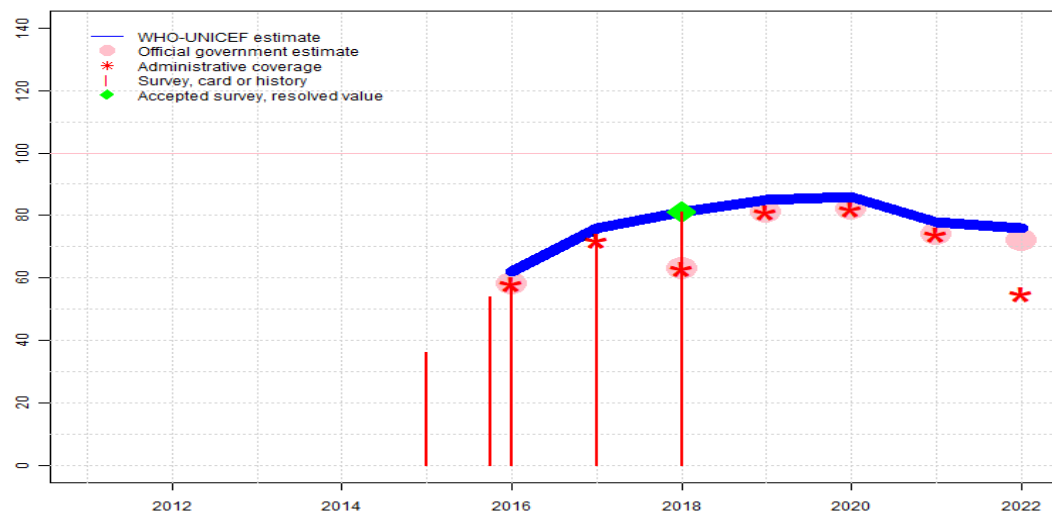
Description:

For this revision, coverage estimates for the first dose of rubella containing vaccine are based on WHO and UNICEF estimates of coverage of measles containing vaccine. Nationally reported coverage of rubella containing vaccine is not taken into consideration nor are they represented in the the accompanying graph and data table.

- 2022: Estimate based on estimated MCV1. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: R-
- 2021: Estimate based on estimated MCV1. Estimate challenged by: D-R-
- 2020: Estimate based on estimated MCV1. Estimate challenged by: D-R-
- 2019: Estimate based on estimated MCV1. Reported data may include catch-up doses following healthcare worker strikes in 2018. Estimate challenged by: D-R-
- 2018: Estimate based on estimated MCV1. Estimate challenged by: R-
- 2017: Estimate based on estimated MCV1. Programme reports one month stockout at national level. GoC=R+ S+ D+
- 2016: Estimate based on estimated MCV1. Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l Habitat de l Agriculture et de l Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. Estimate challenged by: S-
- 2015: Estimate based on estimated MCV1. Estimate challenged by: D-
- 2014: Estimate based on estimated MCV1. GoC=R+ S+ D+
- 2013: Estimate based on estimated MCV1. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Official government estimates are based on 2013 survey results. Rubella containing vaccine introduced in 2013 and administered with measles as part of measles-rubella vaccine. Estimate challenged by: D-

Senegal - HepBB

SEN - HepBB



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | NA | NA | NA | 62 | 76 | 81 | 85 | 86 | 78 | 76 |
| Estimate GoC | NA | NA | NA | NA | NA | • | • | • | • | • | • | • |
| Official | NA | NA | NA | NA | NA | 58 | NA | 63 | 81 | 82 | 74 | 72 |
| Administrative | NA | NA | NA | NA | NA | 58 | 72 | 63 | 81 | 82 | 74 | 55 |
| Survey | NA | NA | NA | NA | 36 | * | 74 | 81 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

2022: Reported data calibrated to 2018 levels. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: D-R-

2021: Reported data calibrated to 2018 levels. Estimate challenged by: R-

2020: Reported data calibrated to 2018 levels. Estimate challenged by: R-

2019: Reported data calibrated to 2018 levels. Reported data may include catch-up doses following healthcare worker strikes in 2018.. Estimate challenged by: R-

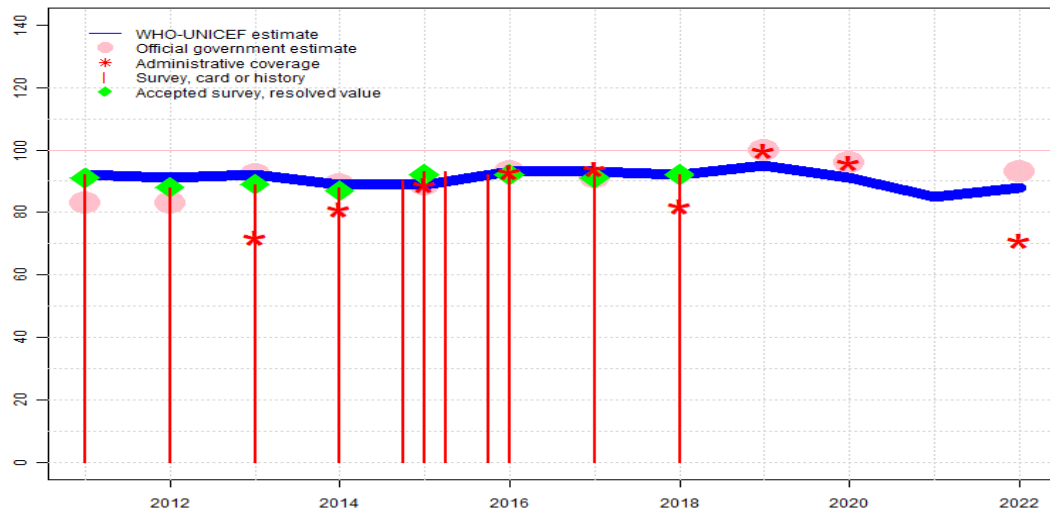
2018: Estimate of 81 percent assigned by working group. Estimate based on survey results. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Estimate challenged by: D-R-

2017: Reported data calibrated to 2018 levels. Senegal Demographic and Health Survey (Continuous) 2018 results ignored by working group. Survey results reflect documented evidence only. Increase following introduction year. Estimate challenged by: R-

2016: Reported data calibrated to 2018 levels. Senegal Demographic and Health Survey 2017 results ignored by working group. Survey results reflect documented evidence only. Senegal Demographic and Health Survey (Continuous) 2018 results ignored by working group. Survey results reflect documented evidence only. Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l Habitat de l Agriculture et de l Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. Birth dose of hepatitis B introduced during 2016. Estimate challenged by: R-S-

Senegal - HepB3

SEN - HepB3



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 92 | 91 | 92 | 89 | 89 | 93 | 93 | 92 | 95 | 91 | 85 | 88 |
| Estimate GoC | • | •• | • | ••• | ••• | ••• | • | • | • | • | • | • |
| Official | 83 | 83 | 92 | 89 | 89 | 93 | 91 | NA | 100 | 96 | NA | 93 |
| Administrative | NA | NA | 72 | 81 | 89 | 93 | 94 | 82 | 100 | 96 | NA | 71 |
| Survey | 92 | 88 | 89 | 88 | * | * | 93 | 92 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2022: Estimate informed by estimated DTP3 coverage. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: D-R-
- 2021: Estimate informed by estimated DTP3 coverage. Estimate of 85 percent changed from previous revision value of 86 percent. GoC=No accepted empirical data
- 2020: Estimate informed by estimated DTP3 coverage. Estimate of 91 percent changed from previous revision value of 92 percent. Estimate challenged by: D-R-
- 2019: Estimate informed by estimated DTP3 coverage. Reported data may include catch-up doses following healthcare worker strikes in 2018. Estimate of 95 percent changed from previous revision value of 96 percent. Estimate challenged by: D-R-
- 2018: Estimate of 92 percent assigned by working group. Estimate based on survey results. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Estimate challenged by: R-
- 2017: Estimate of 93 percent assigned by working group. Estimate is based on estimated DTP3 level. Senegal Demographic and Health Survey (Continuous) 2018 card or history results of 93 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 80 percent and 3rd dose card only coverage of 76 percent. Estimate challenged by: R-
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 2 survey(s). Senegal Demographic and Health Survey 2017 card or history results of 92 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 79 percent and 3rd dose card only coverage of 75 percent. Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Elevage (RGPHAE 2013) du Senegal (available at www.andn.sn) which suggests births are increasing between 2013 and 2016. GoC=R+ S+ D+
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 3 survey(s). GoC=R+ S+ D+
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 87 percent based on 1 survey(s). Senegal Demographic and Health Survey 2015 (Continuous) card or history results of 88 percent modified for recall bias to 87 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 73 percent and 3rd dose card only coverage of 66 percent. GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 89 percent based on 1 survey(s). Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Official government estimates are based on 2013 survey results. Estimate challenged by: D-
- 2012: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 88 percent based on 1 survey(s). Reported data excluded. Nationally

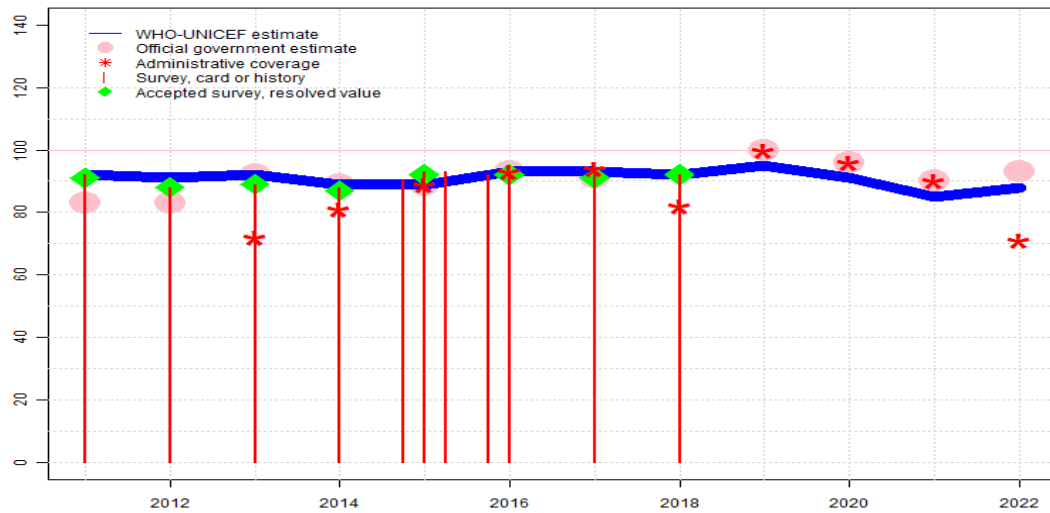
Senegal - HepB3

reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. GoC=R+ S+

2011: Estimate of 92 percent assigned by working group. Estimates are based on final 2011 DHS results. Senegal National EPI Coverage Survey, 2013 card or history results of 92 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 78 percent and 3rd dose card only coverage of 73 percent. Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Estimate challenged by: R-S-

Senegal - Hib3

SEN - Hib3



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 92 | 91 | 92 | 89 | 89 | 93 | 93 | 92 | 95 | 91 | 85 | 88 |
| Estimate GoC | • | • | • | ••• | ••• | ••• | • | • | • | • | • | • |
| Official | 83 | 83 | 92 | 89 | 89 | 93 | 91 | NA | 100 | 96 | 90 | 93 |
| Administrative | NA | NA | 72 | 81 | 89 | 93 | 94 | 82 | 100 | 96 | 90 | 71 |
| Survey | 92 | 88 | 89 | 88 | * | * | 93 | 92 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

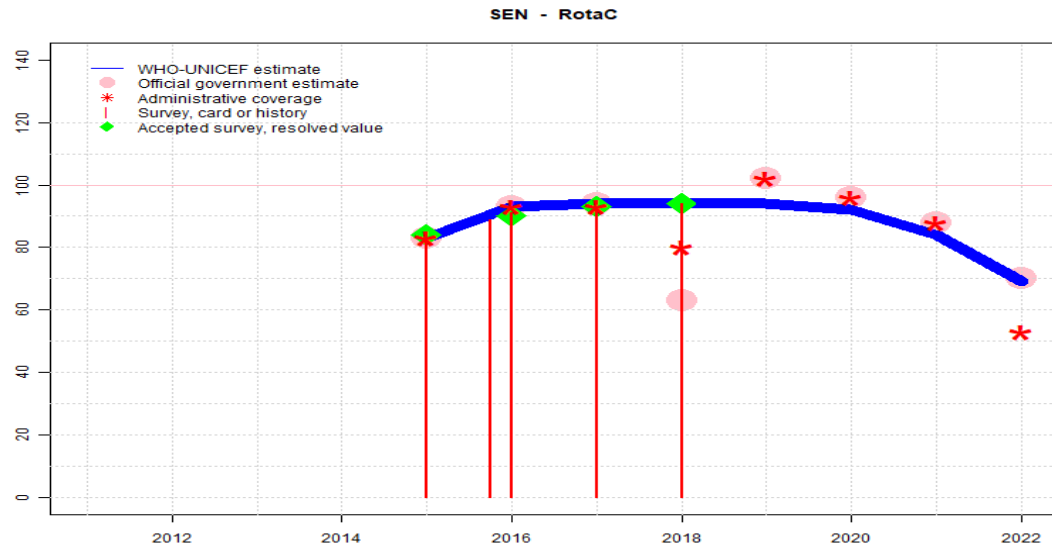
- 2022: Estimate informed by DTP3. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: D-R-
- 2021: Estimate informed by DTP3. Estimate of 85 percent changed from previous revision value of 86 percent. Estimate challenged by: D-R-
- 2020: Estimate informed by DTP3. Estimate of 91 percent changed from previous revision value of 92 percent. Estimate challenged by: D-R-
- 2019: Estimate informed by DTP3. Reported data may include catch-up doses following health-care worker strikes in 2018. Estimate of 95 percent changed from previous revision value of 96 percent. Estimate challenged by: D-R-
- 2018: Estimate of 92 percent assigned by working group. Estimate based on survey results. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Estimate challenged by: R-
- 2017: Estimate of 93 percent assigned by working group. Estimate is based on estimated DTP3 level. Senegal Demographic and Health Survey (Continuous) 2018 card or history results of 93 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 80 percent and 3rd dose card only coverage of 76 percent. Estimate challenged by: R-
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 2 survey(s). Senegal Demographic and Health Survey 2017 card or history results of 92 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 79 percent and 3rd dose card only coverage of 75 percent. Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. GoC=R+ S+ D+
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 3 survey(s). GoC=R+ S+ D+
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 87 percent based on 1 survey(s). Senegal Demographic and Health Survey 2015 (Continuous) card or history results of 88 percent modified for recall bias to 87 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 73 percent and 3rd dose card only coverage of 66 percent. GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 89 percent based on 1 survey(s). Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Official government estimates are based on 2013 survey results. Estimate challenged by: D-
- 2012: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 88 percent based on 1 survey(s). Reported data excluded. Nationally

Senegal - Hib3

reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. GoC=R+ S+

2011: Estimate of 92 percent assigned by working group. Estimates are based on final 2011 DHS results. Senegal National EPI Coverage Survey, 2013 card or history results of 92 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 78 percent and 3rd dose card only coverage of 73 percent. Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Estimate challenged by: R-S-

Senegal - RotaC



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | NA | NA | 83 | 93 | 94 | 94 | 94 | 92 | 84 | 69 |
| Estimate GoC | NA | NA | NA | NA | ●●● | ●●● | ●●● | ● | ● | ● | ● | ● |
| Official | NA | NA | NA | NA | 83 | 93 | 94 | 63 | 102 | 96 | 88 | 70 |
| Administrative | NA | NA | NA | NA | 83 | 93 | 93 | 80 | 102 | 96 | 88 | 53 |
| Survey | NA | NA | NA | NA | 84 | * | 93 | 94 | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

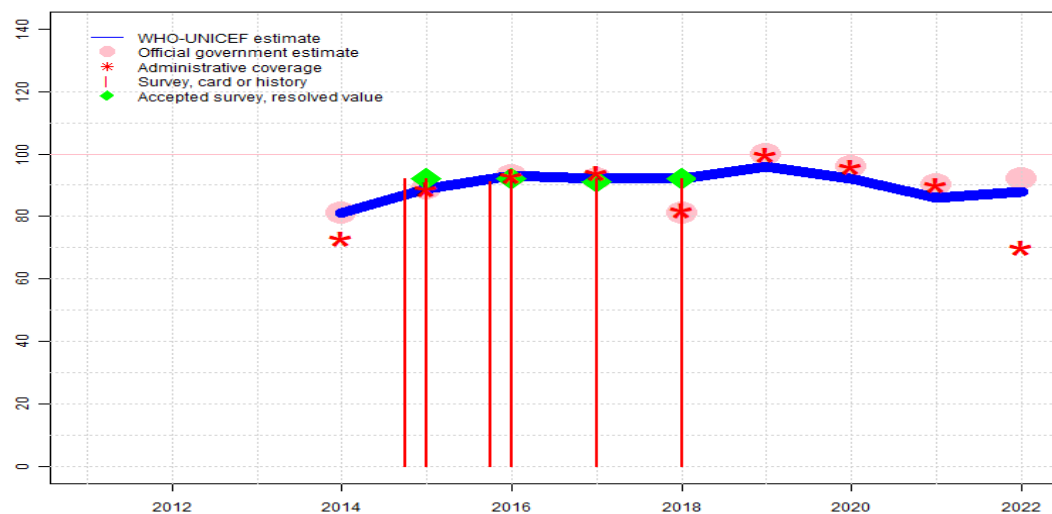
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2022: Reported data calibrated to 2018 levels. Programme notes healthcare worker strikes with resultant impacts on data completeness. Programme reports an eight month vaccine stockout at national and subnational levels. Estimate challenged by: D-R-
- 2021: Estimate is based on trend in reported coverage. Estimate challenged by: D-R-
- 2020: Estimate reflects decline trend in reported coverage 2019 to 2020 for most vaccine doses. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2018 levels. Reported data excluded because 102 percent greater than 100 percent. Reported data may include catch-up doses following healthcare worker strikes in 2018. Estimate challenged by: D-R-
- 2018: Estimate of 94 percent assigned by working group. Estimate based on survey results. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Reported data excluded due to decline in reported coverage from 94 percent to 80 percent with increase to 102 percent. Programme reports a three months vaccine stockout at the national level. Reported adjustment of official reported coverage from administrative coverage is unexplained. Estimate challenged by: R-
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 93 percent based on 1 survey(s). GoC=R+ S+ D+
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 90 percent based on 2 survey(s). Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. GoC=R+ S+ D+
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 84 percent based on 1 survey(s). Rotavirus vaccine introduced in November 2014. Reporting began in 2015. GoC=R+ S+ D+

Senegal - PcV3

SEN - PcV3



Description:

- 2022: Reported data calibrated to 2018 levels. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: D-R-
- 2021: Reported data calibrated to 2018 levels. Estimate challenged by: D-R-
- 2020: Reported data calibrated to 2018 levels. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2018 levels. Reported data may include catch-up doses following healthcare worker strikes in 2018. Estimate challenged by: D-R-
- 2018: Estimate of 92 percent assigned by working group. Estimate based on survey results. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Reported data excluded due to decline in reported coverage from 92 percent to 81 percent with increase to 100 percent. Estimate challenged by: R-
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 91 percent based on 1 survey(s). Senegal Demographic and Health Survey (Continuous) 2018 card or history results of 92 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 80 percent and 3rd dose card only coverage of 76 percent. GoC=R+ S+ D+
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 2 survey(s). Senegal Demographic and Health Survey 2017 card or history results of 91 percent modified for recall bias to 92 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 78 percent and 3rd dose card only coverage of 75 percent. Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Elevage (RGPHAE 2013) du Senegal (available at www.andn.sn) which suggests births are increasing between 2013 and 2016. GoC=R+ S+ D+
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 2 survey(s). GoC=R+ S+ D+
- 2014: Estimate informed by reported data. Introduced in national schedule in November 2013, reporting started in 2014. GoC=Assigned by working group. Introduction period.

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | NA | 81 | 89 | 93 | 92 | 92 | 96 | 92 | 86 | 88 |
| Estimate GoC | NA | NA | NA | • | ••• | ••• | ••• | • | • | • | • | • |
| Official | NA | NA | NA | 81 | 89 | 93 | 92 | 81 | 100 | 96 | 90 | 92 |
| Administrative | NA | NA | NA | 73 | 89 | 93 | 94 | 82 | 100 | 96 | 90 | 70 |
| Survey | NA | NA | NA | NA | * | * | 92 | 92 | NA | NA | NA | NA |

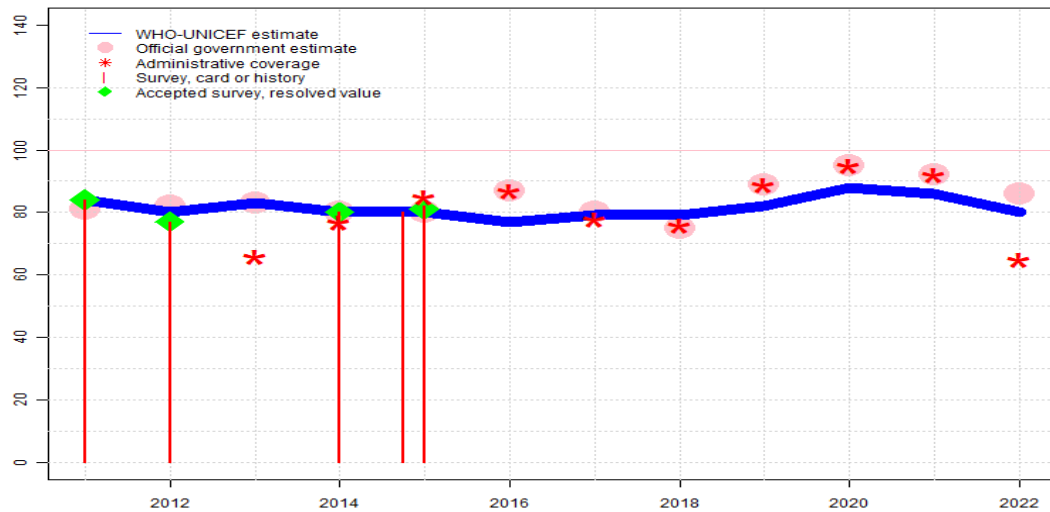
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Senegal - YFV

SEN - YFV



| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 84 | 80 | 83 | 80 | 80 | 77 | 79 | 79 | 82 | 88 | 86 | 80 |
| Estimate GoC | • | •• | • | ••• | • | • | • | • | • | • | • | • |
| Official | 81 | 82 | 83 | 80 | 80 | 87 | 80 | 75 | 89 | 95 | 92 | 86 |
| Administrative | NA | NA | 66 | 77 | 85 | 87 | 78 | 76 | 89 | 95 | 92 | 65 |
| Survey | 84 | 77 | NA | 80 | * | NA | NA | NA | NA | NA | NA | NA |

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2022: Estimate informed by estimated MCV1 coverage. Programme notes healthcare worker strikes with resultant impacts on data completeness. Estimate challenged by: R-
- 2021: Estimate is based on difference between reported YFV and MCV1 coverage applied to estimated coverage for MCV1. Estimate challenged by: D-R-
- 2020: Estimate based on difference between MCV1 and YFV reported coverage applied to estimated coverage for MCV1. Estimate challenged by: D-R-
- 2019: Estimate based on difference between MCV1 and YFV reported coverage applied to estimated coverage for MCV1. Reported data may include catch-up doses following healthcare worker strikes in 2018. Estimate challenged by: D-R-
- 2018: Estimate based on difference between MCV1 and YFV reported coverage applied to estimated coverage for MCV1. Reported data excluded. Programme reports health worker strikes that significantly affected vaccination service delivery. Strikes were conducted from May 2018 to January 2019 reducing service delivery to three days per week. Estimate challenged by: R-
- 2017: Estimate based on difference between MCV1 and YFV reported coverage applied to estimated coverage for MCV1. Programme reports six month stockout at national level. Estimate challenged by: R-
- 2016: Estimate based on difference between MCV1 and YFV reported coverage applied to estimated coverage for MCV1. Since 2014, the reported target population declined 7 percent. These declines are unexplained and are inconsistent with information on target population in the Recensement General de la Population et de l'Habitat de l'Agriculture et de l'Elevage (RGPHAE 2013) du Senegal (available at www.andsn.sn) which suggests births are increasing between 2013 and 2016. Programme reports three months vaccine stockout at national level. Estimate challenged by: D-R-
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 81 percent based on 2 survey(s). Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 80 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate informed by reported data. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Official government estimates are based on 2013 survey results. Estimate challenged by: D-
- 2012: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 77 percent based on 1 survey(s). Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. GoC=R+ S+
- 2011: Estimate of 84 percent assigned by working group. Estimates are based on final 2011 DHS results. Reported data excluded. Nationally reported data based on preliminary 2011 DHS results. Between 2009 and 2012 health facilities did not report service statistics. In 2013 reporting recommenced and reached seventy-six percent completeness. Estimate

Senegal - YFV

challenged by: R-

Senegal - survey details

NOTE: A survey to measure vaccination coverage for infants (i.e., children aged 0 to 11 months) will sample children aged 12 to 23 months at the time of survey to capture the youngest annual cohort of children who should have completed the vaccination schedule. Because WUENIC are for infant vaccinations, survey data in this report are presented to reflect the birth year of the youngest survey cohort. For example, results for a survey conducted during December 2020 among children aged 12 to 23 months at the time of the survey reflect the immunization experience of children born in 2019. Depending on the timing of survey field work, results may reflect the immunization experience of children born and vaccinated 1 or 2 years prior to the survey field work.

2018 Sénégal Enquête Démographique et de Santé Continue (EDS-Continue) 2019

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card or History | 94.5 | 12-23 m | 1129 | - |
| DTP1 | Card or History | 96.2 | 12-23 m | 1129 | - |
| DTP3 | Card or History | 92.1 | 12-23 m | 1129 | - |
| HepB1 | Card or History | 96.2 | 12-23 m | 1129 | - |
| HepB3 | Card or History | 92.1 | 12-23 m | 1129 | - |
| HepBB | Card or History | 81.3 | 12-23 m | 1129 | - |
| Hib1 | Card or History | 96.2 | 12-23 m | 1129 | - |
| Hib3 | Card or History | 92.1 | 12-23 m | 1129 | - |
| MCV1 | Card or History | 85.7 | 12-23 m | 1129 | - |
| MCV2 | Card or History | 61.5 | 24-35 m | 1147 | - |
| PCV1 | Card or History | 95.6 | 12-23 m | 1129 | - |
| PCV3 | Card or History | 91.6 | 12-23 m | 1129 | - |
| Pol1 | Card or History | 95.5 | 12-23 m | 1129 | - |
| Pol3 | Card or History | 85.1 | 12-23 m | 1129 | - |
| RotaC | Card or History | 93.6 | 12-23 m | 1129 | - |

2017 Sénégal Enquête Démographique et de Santé Continue (EDS-Continue) 2018

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 95.1 | 12-23 m | 1227 | 80 |

| | | | | | |
|-------|-------------------|------|---------|------|----|
| BCG | Card | 78.1 | 12-23 m | 980 | 80 |
| BCG | Card or History | 95.3 | 12-23 m | 1227 | 80 |
| BCG | History | 17.2 | 12-23 m | 247 | 80 |
| DTP1 | C or H <12 months | 96.3 | 12-23 m | 1227 | 80 |
| DTP1 | Card | 79.6 | 12-23 m | 980 | 80 |
| DTP1 | Card or History | 96.4 | 12-23 m | 1227 | 80 |
| DTP1 | History | 16.8 | 12-23 m | 247 | 80 |
| DTP3 | C or H <12 months | 91.6 | 12-23 m | 1227 | 80 |
| DTP3 | Card | 76.4 | 12-23 m | 980 | 80 |
| DTP3 | Card or History | 92.6 | 12-23 m | 1227 | 80 |
| DTP3 | History | 16.2 | 12-23 m | 247 | 80 |
| HepB1 | C or H <12 months | 96.3 | 12-23 m | 1227 | 80 |
| HepB1 | Card | 79.6 | 12-23 m | 980 | 80 |
| HepB1 | Card or History | 96.4 | 12-23 m | 1227 | 80 |
| HepB1 | History | 16.8 | 12-23 m | 247 | 80 |
| HepB3 | C or H <12 months | 91.6 | 12-23 m | 1227 | 80 |
| HepB3 | Card | 76.4 | 12-23 m | 980 | 80 |
| HepB3 | Card or History | 92.6 | 12-23 m | 1227 | 80 |
| HepB3 | History | 16.2 | 12-23 m | 247 | 80 |
| HepBB | C or H <12 months | 73.4 | 12-23 m | 1227 | 80 |
| HepBB | Card | 59.9 | 12-23 m | 980 | 80 |
| HepBB | Card or History | 73.8 | 12-23 m | 1227 | 80 |
| HepBB | History | 13.9 | 12-23 m | 247 | 80 |
| Hib1 | C or H <12 months | 96.3 | 12-23 m | 1227 | 80 |
| Hib1 | Card | 79.6 | 12-23 m | 980 | 80 |
| Hib1 | Card or History | 96.4 | 12-23 m | 1227 | 80 |
| Hib1 | History | 16.8 | 12-23 m | 247 | 80 |
| Hib3 | C or H <12 months | 91.6 | 12-23 m | 1227 | 80 |
| Hib3 | Card | 76.4 | 12-23 m | 980 | 80 |
| Hib3 | Card or History | 92.6 | 12-23 m | 1227 | 80 |
| Hib3 | History | 16.2 | 12-23 m | 247 | 80 |
| MCV1 | C or H <12 months | 78.2 | 12-23 m | 1227 | 80 |
| MCV1 | Card | 70.3 | 12-23 m | 980 | 80 |
| MCV1 | Card or History | 85.5 | 12-23 m | 1227 | 80 |
| MCV1 | History | 15.1 | 12-23 m | 247 | 80 |
| MCV2 | C or H <12 months | 59.7 | 24-35 m | 1092 | 80 |
| MCV2 | Card | 41.8 | 24-35 m | 684 | 80 |
| MCV2 | Card or History | 60.9 | 24-35 m | 1092 | 80 |
| MCV2 | History | 19.1 | 24-35 m | 408 | 80 |
| PCV1 | C or H <12 months | 96 | 12-23 m | 1227 | 80 |

Senegal - survey details

| | | | | | | | | | | | |
|--|---------------------|----------|------------|--------|------------|-------|-------------------|------|---------|------|----|
| PCV1 | Card | 79.6 | 12-23 m | 980 | 80 | HepB1 | History | 17.8 | 12-23 m | 454 | 80 |
| PCV1 | Card or History | 96.1 | 12-23 m | 1227 | 80 | HepB3 | C or H <12 months | 90.3 | 12-23 m | 2221 | 80 |
| PCV1 | History | 16.5 | 12-23 m | 247 | 80 | HepB3 | Card | 75.3 | 12-23 m | 1767 | 80 |
| PCV3 | C or H <12 months | 90.9 | 12-23 m | 1227 | 80 | HepB3 | Card or History | 92 | 12-23 m | 2221 | 80 |
| PCV3 | Card | 76.4 | 12-23 m | 980 | 80 | HepB3 | History | 16.6 | 12-23 m | 454 | 80 |
| PCV3 | Card or History | 92.3 | 12-23 m | 1227 | 80 | HepBB | C or H <12 months | 52.5 | 12-23 m | 2221 | 80 |
| PCV3 | History | 15.9 | 12-23 m | 247 | 80 | HepBB | Card | 42.5 | 12-23 m | 1767 | 80 |
| Pol1 | C or H <12 months | 95.6 | 12-23 m | 1227 | 80 | HepBB | Card or History | 53.5 | 12-23 m | 2221 | 80 |
| Pol1 | Card | 79.7 | 12-23 m | 980 | 80 | HepBB | History | 11 | 12-23 m | 454 | 80 |
| Pol1 | Card or History | 95.7 | 12-23 m | 1227 | 80 | Hib1 | C or H <12 months | 96.2 | 12-23 m | 2221 | 80 |
| Pol1 | History | 16 | 12-23 m | 247 | 80 | Hib1 | Card | 78.7 | 12-23 m | 1767 | 80 |
| Pol3 | C or H <12 months | 83.3 | 12-23 m | 1227 | 80 | Hib1 | Card or History | 96.5 | 12-23 m | 2221 | 80 |
| Pol3 | Card | 76.5 | 12-23 m | 980 | 80 | Hib1 | History | 17.8 | 12-23 m | 454 | 80 |
| Pol3 | Card or History | 85 | 12-23 m | 1227 | 80 | Hib3 | C or H <12 months | 90.3 | 12-23 m | 2221 | 80 |
| Pol3 | History | 8.5 | 12-23 m | 247 | 80 | Hib3 | Card | 75.3 | 12-23 m | 1767 | 80 |
| RotaC | C or H <12 months | 92.7 | 12-23 m | 1227 | 80 | Hib3 | Card or History | 92 | 12-23 m | 2221 | 80 |
| RotaC | Card | 77.3 | 12-23 m | 980 | 80 | Hib3 | History | 16.6 | 12-23 m | 454 | 80 |
| RotaC | Card or History | 93.3 | 12-23 m | 1227 | 80 | MCV1 | C or H <12 months | 80.8 | 12-23 m | 2221 | 80 |
| RotaC | History | 15.9 | 12-23 m | 247 | 80 | MCV1 | Card | 72 | 12-23 m | 1767 | 80 |
| 2016 Sénégal Enquête Démographique et de Santé Continue (EDS-Continue) | | | | | | | | | | | |
| 2017 | | | | | | | | | | | |
| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen | MCV1 | Card or History | 88.1 | 12-23 m | 2221 | 80 |
| BCG | C or H <12 months | 94.7 | 12-23 m | 2221 | 80 | MCV1 | History | 16.1 | 12-23 m | 454 | 80 |
| BCG | Card | 77.4 | 12-23 m | 1767 | 80 | MCV2 | C or H <24 months | 48.8 | 24-35 m | 2102 | 80 |
| BCG | Card or History | 95.3 | 12-23 m | 2221 | 80 | MCV2 | Card | 38.7 | 24-35 m | 1310 | 80 |
| BCG | History | 17.9 | 12-23 m | 454 | 80 | MCV2 | Card or History | 51 | 24-35 m | 2102 | 80 |
| DTP1 | C or H <12 months | 96.2 | 12-23 m | 2221 | 80 | MCV2 | History | 12.3 | 24-35 m | 793 | 80 |
| DTP1 | Card | 78.7 | 12-23 m | 1767 | 80 | PcV1 | C or H <12 months | 95.7 | 12-23 m | 2221 | 80 |
| DTP1 | Card or History | 96.5 | 12-23 m | 2221 | 80 | PcV1 | Card | 78.4 | 12-23 m | 1767 | 80 |
| DTP1 | History | 17.8 | 12-23 m | 454 | 80 | PcV1 | Card or History | 96.1 | 12-23 m | 2221 | 80 |
| DTP3 | C or H <12 months | 90.3 | 12-23 m | 2221 | 80 | PcV1 | History | 17.7 | 12-23 m | 454 | 80 |
| DTP3 | Card | 75.3 | 12-23 m | 1767 | 80 | PcV3 | C or H <12 months | 89.5 | 12-23 m | 2221 | 80 |
| DTP3 | Card or History | 92 | 12-23 m | 2221 | 80 | PcV3 | Card | 75 | 12-23 m | 1767 | 80 |
| DTP3 | History | 16.6 | 12-23 m | 454 | 80 | PcV3 | Card or History | 91.4 | 12-23 m | 2221 | 80 |
| HepB1 | C or H <12 months | 96.2 | 12-23 m | 2221 | 80 | PcV3 | History | 16.4 | 12-23 m | 454 | 80 |
| HepB1 | Card | 78.7 | 12-23 m | 1767 | 80 | Pol1 | C or H <12 months | 94.5 | 12-23 m | 2221 | 80 |
| HepB1 | Card or History | 96.5 | 12-23 m | 2221 | 80 | Pol1 | Card | 78.7 | 12-23 m | 1767 | 80 |
| | | | | | | Pol1 | Card or History | 94.8 | 12-23 m | 2221 | 80 |
| | | | | | | Pol1 | History | 16.1 | 12-23 m | 454 | 80 |
| | | | | | | Pol3 | C or H <12 months | 79.9 | 12-23 m | 2221 | 80 |
| | | | | | | Pol3 | Card | 75.1 | 12-23 m | 1767 | 80 |
| | | | | | | Pol3 | Card or History | 81.4 | 12-23 m | 2221 | 80 |

Senegal - survey details

| | | | | | |
|-------|-------------------|------|---------|------|----|
| Pol3 | History | 6.3 | 12-23 m | 454 | 80 |
| RotaC | C or H <12 months | 87.5 | 12-23 m | 2221 | 80 |
| RotaC | Card | 73.6 | 12-23 m | 1767 | 80 |
| RotaC | Card or History | 88.6 | 12-23 m | 2221 | 80 |
| RotaC | History | 15 | 12-23 m | 454 | 80 |

2016 Sénégal Enquête Démographique et de Santé Continue (EDS-Continue) 2018

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 94.2 | 24-35 m | 1092 | 80 |
| BCG | Card | 60.8 | 24-35 m | 684 | 80 |
| BCG | Card or History | 94.8 | 24-35 m | 1092 | 80 |
| BCG | History | 34 | 24-35 m | 408 | 80 |
| DTP1 | C or H <12 months | 95.1 | 24-35 m | 1092 | 80 |
| DTP1 | Card | 61.7 | 24-35 m | 684 | 80 |
| DTP1 | Card or History | 95.8 | 24-35 m | 1092 | 80 |
| DTP1 | History | 34.1 | 24-35 m | 408 | 80 |
| DTP3 | C or H <12 months | 89 | 24-35 m | 1092 | 80 |
| DTP3 | Card | 60.1 | 24-35 m | 684 | 80 |
| DTP3 | Card or History | 92.8 | 24-35 m | 1092 | 80 |
| DTP3 | History | 32.7 | 24-35 m | 408 | 80 |
| HepB1 | C or H <12 months | 95.1 | 24-35 m | 1092 | 80 |
| HepB1 | Card | 61.7 | 24-35 m | 684 | 80 |
| HepB1 | Card or History | 95.8 | 24-35 m | 1092 | 80 |
| HepB1 | History | 34.1 | 24-35 m | 408 | 80 |
| HepB3 | C or H <12 months | 89 | 24-35 m | 1092 | 80 |
| HepB3 | Card | 60.1 | 24-35 m | 684 | 80 |
| HepB3 | Card or History | 92.8 | 24-35 m | 1092 | 80 |
| HepB3 | History | 32.7 | 24-35 m | 408 | 80 |
| HepBB | C or H <12 months | 56.5 | 24-35 m | 1092 | 80 |
| HepBB | Card | 30.9 | 24-35 m | 684 | 80 |
| HepBB | Card or History | 57.2 | 24-35 m | 1092 | 80 |
| HepBB | History | 26.3 | 24-35 m | 408 | 80 |
| Hib1 | C or H <12 months | 95.1 | 24-35 m | 1092 | 80 |
| Hib1 | Card | 61.7 | 24-35 m | 684 | 80 |
| Hib1 | Card or History | 95.8 | 24-35 m | 1092 | 80 |
| Hib1 | History | 34.1 | 24-35 m | 408 | 80 |
| Hib3 | C or H <12 months | 89 | 24-35 m | 1092 | 80 |

| | | | | | |
|-------|-------------------|------|---------|------|----|
| Hib3 | Card | 60.1 | 24-35 m | 684 | 80 |
| Hib3 | Card or History | 92.8 | 24-35 m | 1092 | 80 |
| Hib3 | History | 32.7 | 24-35 m | 408 | 80 |
| MCV1 | C or H <12 months | 78.7 | 24-35 m | 1092 | 80 |
| MCV1 | Card | 58.8 | 24-35 m | 684 | 80 |
| MCV1 | Card or History | 90.8 | 24-35 m | 1092 | 80 |
| MCV1 | History | 32 | 24-35 m | 408 | 80 |
| PCV1 | C or H <12 months | 94.6 | 24-35 m | 1092 | 80 |
| PCV1 | Card | 61.7 | 24-35 m | 684 | 80 |
| PCV1 | Card or History | 95.3 | 24-35 m | 1092 | 80 |
| PCV1 | History | 33.6 | 24-35 m | 408 | 80 |
| PCV3 | C or H <12 months | 88.4 | 24-35 m | 1092 | 80 |
| PCV3 | Card | 59.8 | 24-35 m | 684 | 80 |
| PCV3 | Card or History | 92 | 24-35 m | 1092 | 80 |
| PCV3 | History | 32.2 | 24-35 m | 408 | 80 |
| Pol1 | C or H <12 months | 93.6 | 24-35 m | 1092 | 80 |
| Pol1 | Card | 61.7 | 24-35 m | 684 | 80 |
| Pol1 | Card or History | 94.5 | 24-35 m | 1092 | 80 |
| Pol1 | History | 32.7 | 24-35 m | 408 | 80 |
| Pol3 | C or H <12 months | 73.2 | 24-35 m | 1092 | 80 |
| Pol3 | Card | 60.2 | 24-35 m | 684 | 80 |
| Pol3 | Card or History | 76.9 | 24-35 m | 1092 | 80 |
| Pol3 | History | 16.7 | 24-35 m | 408 | 80 |
| RotaC | C or H <12 months | 89 | 24-35 m | 1092 | 80 |
| RotaC | Card | 59.1 | 24-35 m | 684 | 80 |
| RotaC | Card or History | 90.9 | 24-35 m | 1092 | 80 |
| RotaC | History | 31.8 | 24-35 m | 408 | 80 |

2015 Enquête Nationale de Couvertures Vaccinales du PEV, Sénégal, 2017

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card | 87.9 | 12-23 m | 5993 | 89 |
| BCG | Card or History | 98.9 | 12-23 m | 5993 | 89 |
| DTP1 | Card or History | 97.2 | 12-23 m | 5993 | 89 |
| DTP3 | Card | 80.9 | 12-23 m | 5993 | 89 |
| DTP3 | Card or History | 92.9 | 12-23 m | 5993 | 89 |
| HepB1 | Card or History | 97.2 | 12-23 m | 5993 | 89 |
| HepB3 | Card | 80.9 | 12-23 m | 5993 | 89 |
| HepB3 | Card or History | 92.9 | 12-23 m | 5993 | 89 |

Senegal - survey details

| | | | | | | | | | | | |
|------|-----------------|------|---------|------|----|-------|-------------------|------|---------|------|----|
| Hib1 | Card or History | 97.2 | 12-23 m | 5993 | 89 | BCG | Card or History | 95.3 | 24-35 m | 2102 | 80 |
| Hib3 | Card | 80.9 | 12-23 m | 5993 | 89 | BCG | History | 34.2 | 24-35 m | 793 | 80 |
| Hib3 | Card or History | 92.9 | 12-23 m | 5993 | 89 | DTP1 | C or H <12 months | 95.4 | 24-35 m | 2102 | 80 |
| MCV1 | Card | 79.5 | 12-23 m | 5993 | 89 | DTP1 | Card | 61.9 | 24-35 m | 1310 | 80 |
| MCV1 | Card or History | 89.9 | 12-23 m | 5993 | 89 | DTP1 | Card or History | 96.2 | 24-35 m | 2102 | 80 |
| MCV2 | Card | 47.4 | 12-23 m | 5993 | 89 | DTP1 | History | 34.4 | 24-35 m | 793 | 80 |
| MCV2 | Card or History | 55.1 | 12-23 m | 5993 | 89 | DTP3 | C or H <12 months | 90 | 24-35 m | 2102 | 80 |
| PcV1 | Card or History | 97.2 | 12-23 m | 5993 | 89 | DTP3 | Card | 59.9 | 24-35 m | 1310 | 80 |
| PcV3 | Card | 78.8 | 12-23 m | 5993 | 89 | DTP3 | Card or History | 93 | 24-35 m | 2102 | 80 |
| PcV3 | Card or History | 92 | 12-23 m | 5993 | 89 | DTP3 | History | 33.1 | 24-35 m | 793 | 80 |
| Pol1 | Card or History | 96.5 | 12-23 m | 5993 | 89 | HepB1 | C or H <12 months | 95.4 | 24-35 m | 2102 | 80 |
| Pol3 | Card | 75.4 | 12-23 m | 5993 | 89 | HepB1 | Card | 61.9 | 24-35 m | 1310 | 80 |
| Pol3 | Card or History | 90.8 | 12-23 m | 5993 | 89 | HepB1 | Card or History | 96.2 | 24-35 m | 2102 | 80 |
| YFV | Card | 71.4 | 12-23 m | 5993 | 89 | HepB1 | History | 34.4 | 24-35 m | 793 | 80 |
| YFV | Card or History | 80.2 | 12-23 m | 5993 | 89 | HepB3 | C or H <12 months | 90 | 24-35 m | 2102 | 80 |

2015 Senegal Demographic and Health Survey 2016

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card or History | 94.1 | 12-23 m | 1143 | 75 |
| DTP1 | Card or History | 94.9 | 12-23 m | 1143 | 75 |
| DTP3 | Card or History | 89.5 | 12-23 m | 1143 | 75 |
| HepB1 | Card or History | 94.9 | 12-23 m | 1143 | 75 |
| HepB3 | Card or History | 89.5 | 12-23 m | 1143 | 75 |
| Hib1 | Card or History | 94.9 | 12-23 m | 1143 | 75 |
| Hib3 | Card or History | 89.5 | 12-23 m | 1143 | 75 |
| MCV1 | Card or History | 80.6 | 12-23 m | 1143 | 75 |
| Pol1 | Card or History | 94.6 | 12-23 m | 1143 | 75 |
| Pol3 | Card or History | 80.7 | 12-23 m | 1143 | 75 |
| YFV | Card or History | 82 | 12-23 m | 1143 | 75 |

2015 Sénégal Enquête Démographique et de Santé Continue (EDS-Continue) 2017

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 94.3 | 24-35 m | 2102 | 80 |
| BCG | Card | 61.1 | 24-35 m | 1310 | 80 |

| | | | | | |
|-------|-------------------|------|---------|------|----|
| BCG | Card or History | 95.3 | 24-35 m | 2102 | 80 |
| BCG | History | 34.2 | 24-35 m | 793 | 80 |
| DTP1 | C or H <12 months | 95.4 | 24-35 m | 2102 | 80 |
| DTP1 | Card | 61.9 | 24-35 m | 1310 | 80 |
| DTP1 | Card or History | 96.2 | 24-35 m | 2102 | 80 |
| DTP1 | History | 34.4 | 24-35 m | 793 | 80 |
| DTP3 | C or H <12 months | 90 | 24-35 m | 2102 | 80 |
| DTP3 | Card | 59.9 | 24-35 m | 1310 | 80 |
| DTP3 | Card or History | 93 | 24-35 m | 2102 | 80 |
| DTP3 | History | 33.1 | 24-35 m | 793 | 80 |
| HepB1 | C or H <12 months | 95.4 | 24-35 m | 2102 | 80 |
| HepB1 | Card | 61.9 | 24-35 m | 1310 | 80 |
| HepB1 | Card or History | 96.2 | 24-35 m | 2102 | 80 |
| HepB1 | History | 34.4 | 24-35 m | 793 | 80 |
| HepB3 | C or H <12 months | 90 | 24-35 m | 2102 | 80 |
| HepB3 | Card | 59.9 | 24-35 m | 1310 | 80 |
| HepB3 | Card or History | 93 | 24-35 m | 2102 | 80 |
| HepB3 | History | 33.1 | 24-35 m | 793 | 80 |
| HepBB | C or H <12 months | 35.2 | 24-35 m | 2102 | 80 |
| HepBB | Card | 17.7 | 24-35 m | 1310 | 80 |
| HepBB | Card or History | 35.9 | 24-35 m | 2102 | 80 |
| HepBB | History | 18.3 | 24-35 m | 793 | 80 |
| Hib1 | C or H <12 months | 95.4 | 24-35 m | 2102 | 80 |
| Hib1 | Card | 61.9 | 24-35 m | 1310 | 80 |
| Hib1 | Card or History | 96.2 | 24-35 m | 2102 | 80 |
| Hib1 | History | 34.4 | 24-35 m | 793 | 80 |
| Hib3 | C or H <12 months | 90 | 24-35 m | 2102 | 80 |
| Hib3 | Card | 59.9 | 24-35 m | 1310 | 80 |
| Hib3 | Card or History | 93 | 24-35 m | 2102 | 80 |
| Hib3 | History | 33.1 | 24-35 m | 793 | 80 |
| MCV1 | C or H <12 months | 77.7 | 24-35 m | 2102 | 80 |
| MCV1 | Card | 58.5 | 24-35 m | 1310 | 80 |
| MCV1 | Card or History | 90.3 | 24-35 m | 2102 | 80 |
| MCV1 | History | 31.8 | 24-35 m | 793 | 80 |
| PcV1 | C or H <12 months | 94.4 | 24-35 m | 2102 | 80 |
| PcV1 | Card | 61.6 | 24-35 m | 1310 | 80 |
| PcV1 | Card or History | 95.2 | 24-35 m | 2102 | 80 |
| PcV1 | History | 33.7 | 24-35 m | 793 | 80 |
| PcV3 | C or H <12 months | 89.1 | 24-35 m | 2102 | 80 |
| PcV3 | Card | 59.5 | 24-35 m | 1310 | 80 |

Senegal - survey details

| | | | | | |
|-------|-------------------|------|---------|------|----|
| PcV3 | Card or History | 91.9 | 24-35 m | 2102 | 80 |
| PcV3 | History | 32.5 | 24-35 m | 793 | 80 |
| Pol1 | C or H <12 months | 93.3 | 24-35 m | 2102 | 80 |
| Pol1 | Card | 61.8 | 24-35 m | 1310 | 80 |
| Pol1 | Card or History | 94.4 | 24-35 m | 2102 | 80 |
| Pol1 | History | 32.6 | 24-35 m | 793 | 80 |
| Pol3 | C or H <12 months | 70.1 | 24-35 m | 2102 | 80 |
| Pol3 | Card | 59.5 | 24-35 m | 1310 | 80 |
| Pol3 | Card or History | 72.2 | 24-35 m | 2102 | 80 |
| Pol3 | History | 12.6 | 24-35 m | 793 | 80 |
| RotaC | C or H <12 months | 81.9 | 24-35 m | 2102 | 80 |
| RotaC | Card | 56.3 | 24-35 m | 1310 | 80 |
| RotaC | Card or History | 84.3 | 24-35 m | 2102 | 80 |
| RotaC | History | 28 | 24-35 m | 793 | 80 |

2014 Sénégal Enquête Démographique et de Santé Continue 2015

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 95 | 12-23 m | 1165 | 73 |
| BCG | Card | 71.6 | 12-23 m | 853 | 73 |
| BCG | Card or History | 95.7 | 12-23 m | 1165 | 73 |
| DTP1 | C or H <12 months | 95.6 | 12-23 m | 1165 | 73 |
| DTP1 | Card | 72.7 | 12-23 m | 853 | 73 |
| DTP1 | Card or History | 96.3 | 12-23 m | 1165 | 73 |
| DTP3 | C or H <12 months | 85.5 | 12-23 m | 1165 | 73 |
| DTP3 | Card | 66.5 | 12-23 m | 853 | 73 |
| DTP3 | Card or History | 88.3 | 12-23 m | 1165 | 73 |
| HepB1 | C or H <12 months | 95.6 | 12-23 m | 1165 | 73 |
| HepB1 | Card | 72.7 | 12-23 m | 853 | 73 |
| HepB1 | Card or History | 96.3 | 12-23 m | 1165 | 73 |
| HepB3 | C or H <12 months | 85.5 | 12-23 m | 1165 | 73 |
| HepB3 | Card | 66.5 | 12-23 m | 853 | 73 |
| HepB3 | Card or History | 88.3 | 12-23 m | 1165 | 73 |
| Hib1 | C or H <12 months | 95.6 | 12-23 m | 1165 | 73 |
| Hib1 | Card | 72.7 | 12-23 m | 853 | 73 |
| Hib1 | Card or History | 96.3 | 12-23 m | 1165 | 73 |
| Hib3 | C or H <12 months | 85.5 | 12-23 m | 1165 | 73 |
| Hib3 | Card | 66.5 | 12-23 m | 853 | 73 |
| Hib3 | Card or History | 88.3 | 12-23 m | 1165 | 73 |

| | | | | | |
|------|-------------------|------|---------|------|----|
| MCV1 | C or H <12 months | 70 | 12-23 m | 1165 | 73 |
| MCV1 | Card | 59.6 | 12-23 m | 853 | 73 |
| MCV1 | Card or History | 79.1 | 12-23 m | 1165 | 73 |
| Pol1 | C or H <12 months | 96.3 | 12-23 m | 1165 | 73 |
| Pol1 | Card | 72.9 | 12-23 m | 853 | 73 |
| Pol1 | Card or History | 97.1 | 12-23 m | 1165 | 73 |
| Pol3 | C or H <12 months | 78.6 | 12-23 m | 1165 | 73 |
| Pol3 | Card | 66.8 | 12-23 m | 853 | 73 |
| Pol3 | Card or History | 80.6 | 12-23 m | 1165 | 73 |
| YFV | C or H <12 months | 69.8 | 12-23 m | 1165 | 73 |
| YFV | Card | 60 | 12-23 m | 853 | 73 |
| YFV | Card or History | 79.6 | 12-23 m | 1165 | 73 |

2013 Sénégal Enquête Démographique et de Santé Continue 2014

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card or History | 95.3 | 12-23 m | 1211 | 69 |
| DTP1 | Card or History | 95.6 | 12-23 m | 1211 | 69 |
| DTP3 | Card or History | 89.3 | 12-23 m | 1211 | 69 |
| HepB1 | Card or History | 95.6 | 12-23 m | 1211 | 69 |
| HepB3 | Card or History | 89.3 | 12-23 m | 1211 | 69 |
| Hib1 | Card or History | 95.6 | 12-23 m | 1211 | 69 |
| Hib3 | Card or History | 89.3 | 12-23 m | 1211 | 69 |
| MCV1 | Card or History | 80.2 | 12-23 m | 1211 | 69 |
| Pol1 | Card or History | 96 | 12-23 m | 1211 | 69 |
| Pol3 | Card or History | 84.4 | 12-23 m | 1211 | 69 |

2012 Sénégal Enquête Démographique et de Santé Continue, 2012-2013

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card or History | 96.3 | 12-23 m | 1230 | 71 |
| DTP1 | Card or History | 95.8 | 12-23 m | 1230 | 71 |
| DTP3 | Card or History | 88.5 | 12-23 m | 1230 | 71 |
| HepB1 | Card or History | 95.8 | 12-23 m | 1230 | 71 |
| HepB3 | Card or History | 88.5 | 12-23 m | 1230 | 71 |
| Hib1 | Card or History | 95.8 | 12-23 m | 1230 | 71 |
| Hib3 | Card or History | 88.5 | 12-23 m | 1230 | 71 |

Senegal - survey details

| | | | | | |
|------|-----------------|------|---------|------|----|
| MCV1 | Card or History | 77.8 | 12-23 m | 1230 | 71 |
| Pol1 | Card or History | 95.7 | 12-23 m | 1230 | 71 |
| Pol3 | Card or History | 83 | 12-23 m | 1230 | 71 |
| YFV | Card or History | 77.1 | 12-23 m | 1230 | 71 |

| | | | | | |
|-------|-----------------|------|---------|-------|----|
| DTP1 | Card | 72.5 | 12-23 m | 13650 | 76 |
| DTP1 | Card or History | 93.7 | 12-23 m | 13650 | 76 |
| DTP3 | Card | 50.9 | 12-23 m | 13650 | 76 |
| DTP3 | Card or History | 74.1 | 12-23 m | 13650 | 76 |
| HepB1 | Card | 72.5 | 12-23 m | 13650 | 76 |
| HepB1 | Card or History | 93.7 | 12-23 m | 13650 | 76 |
| HepB3 | Card | 50.9 | 12-23 m | 13650 | 76 |
| HepB3 | Card or History | 74.1 | 12-23 m | 13650 | 76 |
| Hib1 | Card | 72.5 | 12-23 m | 13650 | 76 |
| Hib1 | Card or History | 93.7 | 12-23 m | 13650 | 76 |
| Hib3 | Card | 50.9 | 12-23 m | 13650 | 76 |
| Hib3 | Card or History | 74.1 | 12-23 m | 13650 | 76 |
| MCV1 | Card | 47.3 | 12-23 m | 13650 | 76 |
| MCV1 | Card or History | 78.9 | 12-23 m | 13650 | 76 |

2011 Enquête Nationale de Couvertures Vaccinales du PEV, Sénégal, 2013

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|-------------------------|----------|------------|--------|------------|
| BCG | Card | 77.7 | 12-23 m | - | 81 |
| BCG | Card or History | 97.1 | 12-23 m | 16755 | 81 |
| BCG | Card or History or Scar | 93.3 | 12-23 m | - | 81 |
| DTP1 | Card | 78.4 | 12-23 m | - | 81 |
| DTP1 | Card or History | 96.7 | 12-23 m | 16755 | 81 |
| DTP3 | Card | 72.6 | 12-23 m | - | 81 |
| DTP3 | Card or History | 91.6 | 12-23 m | 16755 | 81 |
| HepB1 | Card | 78.4 | 12-23 m | - | 81 |
| HepB1 | Card or History | 96.7 | 12-23 m | 16755 | 81 |
| HepB3 | Card | 72.6 | 12-23 m | - | 81 |
| HepB3 | Card or History | 91.6 | 12-23 m | 16755 | 81 |
| Hib1 | Card | 78.4 | 12-23 m | - | 81 |
| Hib1 | Card or History | 96.7 | 12-23 m | 16755 | 81 |
| Hib3 | Card | 72.6 | 12-23 m | - | 81 |
| Hib3 | Card or History | 91.6 | 12-23 m | 16755 | 81 |
| MCV1 | Card | 65.7 | 12-23 m | - | 81 |
| MCV1 | Card or History | 84.3 | 12-23 m | 16755 | 81 |
| Pol1 | Card | 65.2 | 12-23 m | - | 81 |
| Pol1 | Card or History | 93.9 | 12-23 m | 16755 | 81 |
| Pol3 | Card | 59.7 | 12-23 m | - | 81 |
| Pol3 | Card or History | 89.3 | 12-23 m | 16755 | 81 |
| YFV | Card | 65.8 | 12-23 m | - | 81 |
| YFV | Card or History | 84.2 | 12-23 m | 16755 | 81 |

2009 Sénégal Enquête Démographique et de Santé à Indicateurs Multiples 2010-2011

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 93.3 | 12-23 m | 2199 | 66 |
| BCG | Card | 64.4 | 12-23 m | 1460 | 66 |
| BCG | Card or History | 94.7 | 12-23 m | 2199 | 66 |
| BCG | History | 30.3 | 12-23 m | 738 | 66 |
| DTP1 | C or H <12 months | 93 | 12-23 m | 2199 | 66 |
| DTP1 | Card | 64.5 | 12-23 m | 1460 | 66 |
| DTP1 | Card or History | 93.9 | 12-23 m | 2199 | 66 |
| DTP1 | History | 29.4 | 12-23 m | 738 | 66 |
| DTP3 | C or H <12 months | 80.3 | 12-23 m | 2199 | 66 |
| DTP3 | Card | 60.1 | 12-23 m | 1460 | 66 |
| DTP3 | Card or History | 82.6 | 12-23 m | 2199 | 66 |
| DTP3 | History | 22.5 | 12-23 m | 738 | 66 |
| HepB1 | C or H <12 months | 93 | 12-23 m | 2199 | 66 |
| HepB1 | Card | 64.5 | 12-23 m | 1460 | 66 |
| HepB1 | Card or History | 93.9 | 12-23 m | 2199 | 66 |
| HepB1 | History | 29.4 | 12-23 m | 738 | 66 |
| HepB3 | C or H <12 months | 80.3 | 12-23 m | 2199 | 66 |
| HepB3 | Card | 60.1 | 12-23 m | 1460 | 66 |
| HepB3 | Card or History | 82.6 | 12-23 m | 2199 | 66 |
| HepB3 | History | 22.5 | 12-23 m | 738 | 66 |

2009 Revue externe du Programme Elargi de Vaccination du Senegal 2010

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card | 91.7 | 12-23 m | 13650 | 76 |
| BCG | Card or History | 95 | 12-23 m | 13650 | 76 |

Senegal - survey details

| | | | | | |
|------|-------------------|------|---------|------|----|
| Hib1 | C or H <12 months | 93 | 12-23 m | 2199 | 66 |
| Hib1 | Card | 64.5 | 12-23 m | 1460 | 66 |
| Hib1 | Card or History | 93.9 | 12-23 m | 2199 | 66 |
| Hib1 | History | 29.4 | 12-23 m | 738 | 66 |
| Hib3 | C or H <12 months | 80.3 | 12-23 m | 2199 | 66 |
| Hib3 | Card | 60.1 | 12-23 m | 1460 | 66 |
| Hib3 | Card or History | 82.6 | 12-23 m | 2199 | 66 |
| Hib3 | History | 22.5 | 12-23 m | 738 | 66 |
| MCV1 | C or H <12 months | 71.1 | 12-23 m | 2199 | 66 |
| MCV1 | Card | 56.1 | 12-23 m | 1460 | 66 |
| MCV1 | Card or History | 82.1 | 12-23 m | 2199 | 66 |
| MCV1 | History | 26 | 12-23 m | 738 | 66 |
| Pol1 | C or H <12 months | 93.7 | 12-23 m | 2199 | 66 |
| Pol1 | Card | 64.7 | 12-23 m | 1460 | 66 |
| Pol1 | Card or History | 94.6 | 12-23 m | 2199 | 66 |
| Pol1 | History | 29.9 | 12-23 m | 738 | 66 |
| Pol3 | C or H <12 months | 70.4 | 12-23 m | 2199 | 66 |
| Pol3 | Card | 60.4 | 12-23 m | 1460 | 66 |
| Pol3 | Card or History | 72.7 | 12-23 m | 2199 | 66 |
| Pol3 | History | 12.3 | 12-23 m | 738 | 66 |

2004 Enquête Démographique et de Santé, Sénégal 2005

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 90.8 | 12-23 m | 2040 | 70 |
| BCG | Card | 66.3 | 12-23 m | 2040 | 70 |
| BCG | Card or History | 91.7 | 12-23 m | 2040 | 70 |
| BCG | History | 25.4 | 12-23 m | 2040 | 70 |
| DTP1 | C or H <12 months | 92.5 | 12-23 m | 2040 | 70 |
| DTP1 | Card | 68.5 | 12-23 m | 2040 | 70 |
| DTP1 | Card or History | 93.2 | 12-23 m | 2040 | 70 |
| DTP1 | History | 24.7 | 12-23 m | 2040 | 70 |
| DTP3 | C or H <12 months | 74.1 | 12-23 m | 2040 | 70 |
| DTP3 | Card | 61.3 | 12-23 m | 2040 | 70 |
| DTP3 | Card or History | 78.3 | 12-23 m | 2040 | 70 |
| DTP3 | History | 17 | 12-23 m | 2040 | 70 |
| MCV1 | C or H <12 months | 61.2 | 12-23 m | 2040 | 70 |
| MCV1 | Card | 53.4 | 12-23 m | 2040 | 70 |
| MCV1 | Card or History | 73.5 | 12-23 m | 2040 | 70 |

| | | | | | |
|------|-------------------|------|---------|------|----|
| MCV1 | History | 20.1 | 12-23 m | 2040 | 70 |
| Pol1 | C or H <12 months | 93.1 | 12-23 m | 2040 | 70 |
| Pol1 | Card | 69.2 | 12-23 m | 2040 | 70 |
| Pol1 | Card or History | 93.9 | 12-23 m | 2040 | 70 |
| Pol1 | History | 24.7 | 12-23 m | 2040 | 70 |
| Pol3 | C or H <12 months | 68.9 | 12-23 m | 2040 | 70 |
| Pol3 | Card | 61.4 | 12-23 m | 2040 | 70 |
| Pol3 | Card or History | 72.9 | 12-23 m | 2040 | 70 |
| Pol3 | History | 11.5 | 12-23 m | 2040 | 70 |
| YFV | C or H <12 months | 61.6 | 12-23 m | 2040 | 70 |
| YFV | Card | 53.9 | 12-23 m | 2040 | 70 |
| YFV | Card or History | 73.1 | 12-23 m | 2040 | 70 |
| YFV | History | 19.2 | 12-23 m | 2040 | 70 |

1999 Rapport final revue externe PEV du Senegal, Jan 2000

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 88.8 | 12-23 m | 2100 | 81 |
| BCG | Card | 87.6 | 12-23 m | 2100 | 81 |
| BCG | Card <12 months | 86.6 | 12-23 m | 2100 | 81 |
| BCG | Card or History | 89.9 | 12-23 m | 2100 | 81 |
| DTP1 | C or H <12 months | 78.8 | 12-23 m | 2100 | 81 |
| DTP1 | Card | 70.8 | 12-23 m | 2100 | 81 |
| DTP1 | Card <12 months | 68.2 | 12-23 m | 2100 | 81 |
| DTP1 | Card or History | 81.8 | 12-23 m | 2100 | 81 |
| DTP3 | C or H <12 months | 51.8 | 12-23 m | 2100 | 81 |
| DTP3 | Card | 52.1 | 12-23 m | 2100 | 81 |
| DTP3 | Card <12 months | 45.4 | 12-23 m | 2100 | 81 |
| DTP3 | Card or History | 59.6 | 12-23 m | 2100 | 81 |
| MCV1 | C or H <12 months | 47.9 | 12-23 m | 2100 | 81 |
| MCV1 | Card | 52.6 | 12-23 m | 2100 | 81 |
| MCV1 | Card <12 months | 42.4 | 12-23 m | 2100 | 81 |
| MCV1 | Card or History | 59.7 | 12-23 m | 2100 | 81 |
| Pol1 | C or H <12 months | 73.4 | 12-23 m | 2100 | 81 |
| Pol1 | Card | 66.5 | 12-23 m | 2100 | 81 |
| Pol1 | Card <12 months | 63.6 | 12-23 m | 2100 | 81 |
| Pol1 | Card or History | 76.4 | 12-23 m | 2100 | 81 |
| Pol3 | C or H <12 months | 48.8 | 12-23 m | 2100 | 81 |
| Pol3 | Card | 49.6 | 12-23 m | 2100 | 81 |

Senegal - survey details

| | | | | | |
|------|-----------------|------|---------|------|----|
| Pol3 | Card <12 months | 42.8 | 12-23 m | 2100 | 81 |
| Pol3 | Card or History | 56.5 | 12-23 m | 2100 | 81 |
| YFV | Card | 43.1 | 12-23 m | 2100 | 81 |
| YFV | Card <12 months | 33.9 | 12-23 m | 2100 | 81 |
| YFV | Card or History | 50.1 | 12-23 m | 2100 | 81 |

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| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 82.2 | 12-23 m | 2137 | 59 |
| BCG | Card | 58.9 | 12-23 m | 2137 | 59 |
| BCG | Card or History | 87.9 | 12-23 m | 2137 | 59 |
| BCG | History | 29 | 12-23 m | 2137 | 59 |
| DTP1 | C or H <12 months | 69.4 | 12-23 m | 2137 | 59 |
| DTP1 | Card | 55.3 | 12-23 m | 2137 | 59 |
| DTP1 | Card or History | 73.3 | 12-23 m | 2137 | 59 |

| | | | | | |
|------|-------------------|------|---------|------|----|
| DTP1 | History | 17.9 | 12-23 m | 2137 | 59 |
| DTP3 | C or H <12 months | 42.7 | 12-23 m | 2137 | 59 |
| DTP3 | Card | 42.4 | 12-23 m | 2137 | 59 |
| DTP3 | Card or History | 50 | 12-23 m | 2137 | 59 |
| DTP3 | History | 7.6 | 12-23 m | 2137 | 59 |
| MCV1 | C or H <12 months | 46.5 | 12-23 m | 2137 | 59 |
| MCV1 | Card | 41.6 | 12-23 m | 2137 | 59 |
| MCV1 | Card or History | 61.2 | 12-23 m | 2137 | 59 |
| MCV1 | History | 19.6 | 12-23 m | 2137 | 59 |
| Pol1 | C or H <12 months | 80.5 | 12-23 m | 2137 | 59 |
| Pol1 | Card | 57.3 | 12-23 m | 2137 | 59 |
| Pol1 | Card or History | 85.5 | 12-23 m | 2137 | 59 |
| Pol1 | History | 28.1 | 12-23 m | 2137 | 59 |
| Pol3 | C or H <12 months | 50 | 12-23 m | 2137 | 59 |
| Pol3 | Card | 43.2 | 12-23 m | 2137 | 59 |
| Pol3 | Card or History | 58.2 | 12-23 m | 2137 | 59 |
| Pol3 | History | 15.1 | 12-23 m | 2137 | 59 |

Senegal - survey details

Further information and estimates for previous years are available at:

<https://data.unicef.org/topic/child-health/immunization/>

<https://immunizationdata.who.int/listing.html>