

Guinea-Bissau: WHO and UNICEF estimates of immunization coverage: 2020 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.

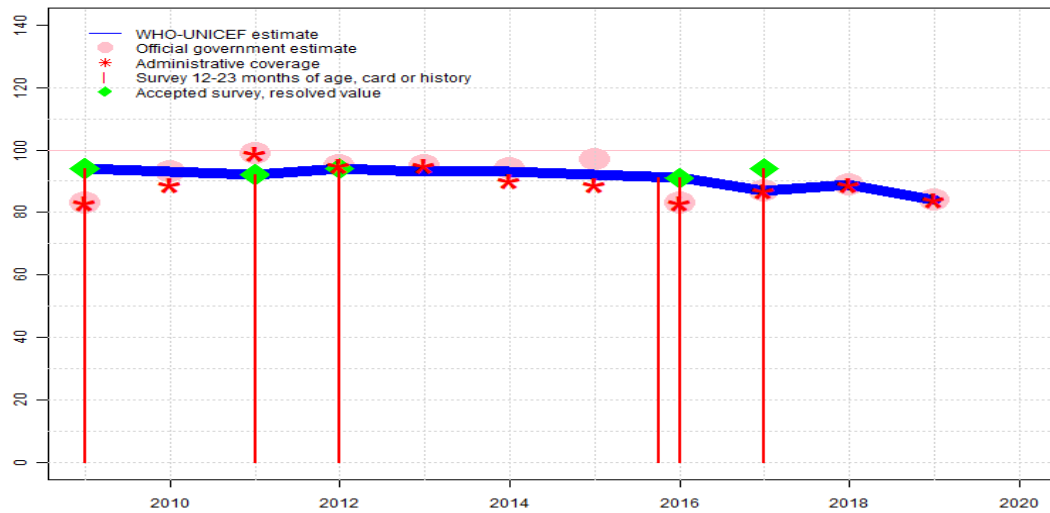
PcV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect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

GNB - BCG



Description:

- 2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices. Programme reports three month vaccine stock-out at national and district levels. Estimate of 84 percent changed from previous revision value of 86 percent. GoC=Assigned by working group. .
- 2018: Estimate based on coverage reported by national government. Estimate of 89 percent changed from previous revision value of 91 percent. GoC=Assigned by working group. .
- 2017: Estimate based on coverage reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). Estimate of 87 percent changed from previous revision value of 91 percent. GoC=Assigned by working group. .
- 2016: Estimate of 91 percent assigned by working group. Estimate based on survey result. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. GoC=Assigned by working group. .
- 2015: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2014: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2013: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2012: Estimate of 94 percent assigned by working group. Estimate based on survey result. GoC=Assigned by working group. .
- 2011: Estimate of 92 percent assigned by working group. Estimate based on survey result. GoC=Assigned by working group. .
- 2010: Estimate based on interpolation between 2009 and 2011 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2009: Estimate of 94 percent assigned by working group. Estimate based on survey result. GoC=Assigned by working group. .

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	94	93	92	94	93	93	92	91	87	89	84	NA
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	NA
Official	83	93	99	95	95	94	97	83	87	89	84	NA
Administrative	83	89	99	95	95	90	89	83	87	89	84	NA
Survey	94	NA	92	94	NA	NA	NA	*	94	NA	NA	NA

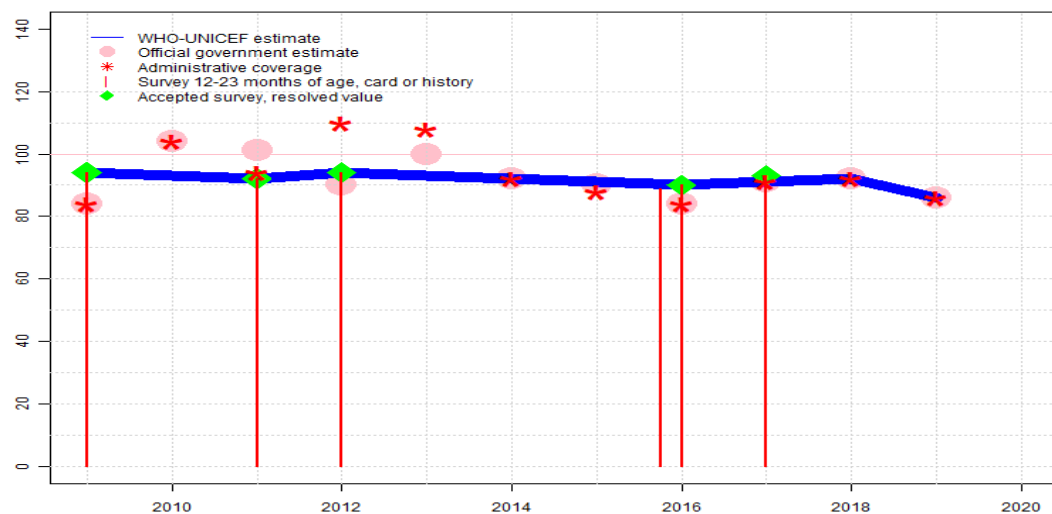
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2020 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.

Guinea-Bissau - DTP1

GNB - DTP1



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	94	93	92	94	93	92	91	90	91	92	86	NA
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	NA
Official	84	104	101	90	100	92	90	84	91	92	86	NA
Administrative	84	104	94	110	108	92	88	84	91	92	86	NA
Survey	94	NA	92	94	NA	NA	NA	*	93	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: 2020 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.

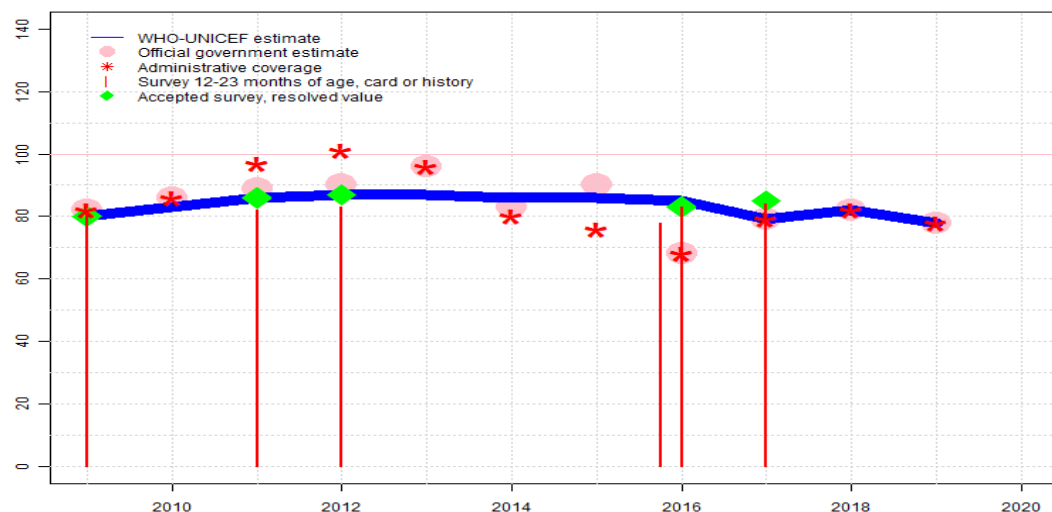
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices. Estimate of 86 percent changed from previous revision value of 85 percent. GoC=Assigned by working group. .
- 2018: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 89 percent. GoC=Assigned by working group. .
- 2017: Estimate based on coverage reported by national government supported by survey. Survey evidence of 93 percent based on 1 survey(s). Estimate of 91 percent changed from previous revision value of 89 percent. GoC=Assigned by working group. .
- 2016: Estimate of 90 percent assigned by working group. Estimate based on survey result. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. Estimate of 90 percent changed from previous revision value of 89 percent. GoC=Assigned by working group. .
- 2015: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 91 percent changed from previous revision value of 90 percent. GoC=Assigned by working group. .
- 2014: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2013: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2012: Estimate of 94 percent assigned by working group. Estimate based on survey result. GoC=Assigned by working group. .
- 2011: Estimate of 92 percent assigned by working group. Estimate based on survey result. Reported data excluded because 101 percent greater than 100 percent. GoC=Assigned by working group. .
- 2010: Estimate based on interpolation between 2009 and 2011 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Reported data excluded because 104 percent greater than 100 percent. GoC=Assigned by working group. .
- 2009: Estimate of 94 percent assigned by working group. Estimate based on survey result. GoC=Assigned by working group. .

Guinea-Bissau - DTP3

GNB - DTP3



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	80	83	86	87	87	86	86	85	79	82	78	NA
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	NA
Official	82	86	89	90	96	83	90	68	79	82	78	NA
Administrative	82	86	97	101	96	80	76	68	79	82	78	NA
Survey	81	NA	82	83	NA	NA	NA	*	84	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: 2020 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:

- 2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices. Estimate of 78 percent changed from previous revision value of 84 percent. GoC=Assigned by working group. .
- 2018: Estimate based on coverage reported by national government. Estimate of 82 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2017: Estimate based on coverage reported by national government supported by survey. Survey evidence of 85 percent based on 1 survey(s). Guinea-Bissau Multiple Indicator Cluster Survey 2018-2019 card or history results of 84 percent modified for recall bias to 85 percent based on 1st dose card or history coverage of 93 percent, 1st dose card only coverage of 84 percent and 3rd dose card only coverage of 77 percent. Estimate of 79 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2016: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 83 percent based on 2 survey(s). Guinea-Bissau Vaccine Coverage Survey Report 2017 card or history results of 83 percent modified for recall bias to 88 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 83 percent and 3rd dose card only coverage of 82 percent. Reported data excluded due to decline in reported coverage from 90 percent to 68 percent with increase to 79 percent. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. Estimate of 85 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2015: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 86 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2014: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 86 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2013: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2012: Estimate of 87 percent assigned by working group. Estimate based on survey result. Guinea-Bissau Multiple Indicator Cluster Survey 2014 card or history results of 83 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 82 percent and 3rd dose card only coverage of 76 percent. GoC=Assigned by working group. .
- 2011: Estimate of 86 percent assigned by working group. Estimate based on survey result. Guinea-Bissau Multiple Indicator Cluster Survey 2014 card or history results of 82 percent modified for recall bias to 86 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 74 percent and 3rd dose card only coverage of 69 percent. GoC=Assigned by working group. .
- 2010: Estimate based on interpolation between 2009 and 2011 levels. Fluctuations in reported

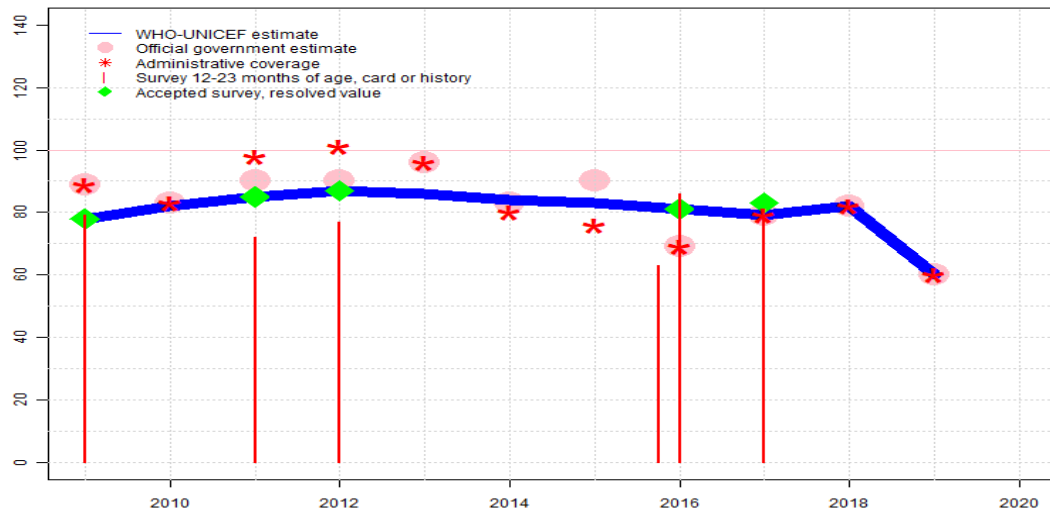
Guinea-Bissau - DTP3

data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .

2009: Estimate of 80 percent assigned by working group. Estimate based on survey result. Guinea-Bissau 4th Multiple Indicator Cluster Survey 2010 card or history results of 81 percent modified for recall bias to 80 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 80 percent and 3rd dose card only coverage of 68 percent. GoC=Assigned by working group. .

Guinea-Bissau - Pol3

GNB - Pol3



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	78	82	85	87	86	84	83	81	79	82	60	NA
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	NA
Official	89	83	90	90	96	83	90	69	79	82	60	NA
Administrative	89	83	98	101	96	80	76	69	79	82	60	NA
Survey	79	NA	72	77	NA	NA	NA	*	78	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: 2020 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:

- 2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices. Programme reports three month vaccine stock-out at national and district levels. Estimate of 60 percent changed from previous revision value of 67 percent. GoC=Assigned by working group. .
- 2018: Estimate based on coverage reported by national government. Estimate of 82 percent changed from previous revision value of 89 percent. GoC=Assigned by working group. .
- 2017: Estimate based on coverage reported by national government supported by survey. Survey evidence of 83 percent based on 1 survey(s). Guinea-Bissau Multiple Indicator Cluster Survey 2018-2019 card or history results of 78 percent modified for recall bias to 83 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 85 percent and 3rd dose card only coverage of 77 percent. Estimate of 79 percent changed from previous revision value of 89 percent. GoC=Assigned by working group. .
- 2016: Estimate of 81 percent assigned by working group. Estimate based on survey result. Guinea-Bissau Vaccine Coverage Survey Report 2017 card or history results of 86 percent modified for recall bias to 89 percent based on 1st dose card or history coverage of 90 percent, 1st dose card only coverage of 83 percent and 3rd dose card only coverage of 82 percent. Guinea-Bissau Multiple Indicator Cluster Survey 2018-2019 card or history results of 63 percent modified for recall bias to 73 percent based on 1st dose card or history coverage of 84 percent, 1st dose card only coverage of 70 percent and 3rd dose card only coverage of 61 percent. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. Estimate of 81 percent changed from previous revision value of 89 percent. GoC=Assigned by working group. .
- 2015: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 83 percent changed from previous revision value of 89 percent. GoC=Assigned by working group. .
- 2014: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 84 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2013: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 86 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2012: Estimate of 87 percent assigned by working group. Estimate based on survey result. Guinea-Bissau Multiple Indicator Cluster Survey 2014 card or history results of 77 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 82 percent and 3rd dose card only coverage of 76 percent. GoC=Assigned by working group. .
- 2011: Estimate of 85 percent assigned by working group. Estimate based on survey result. Guinea-Bissau Multiple Indicator Cluster Survey 2014 card or history results of 72 percent modified for recall bias to 85 percent based on 1st dose card or history coverage of 91 percent, 1st dose card only coverage of 74 percent and 3rd dose card only coverage of

Guinea-Bissau - Pol3

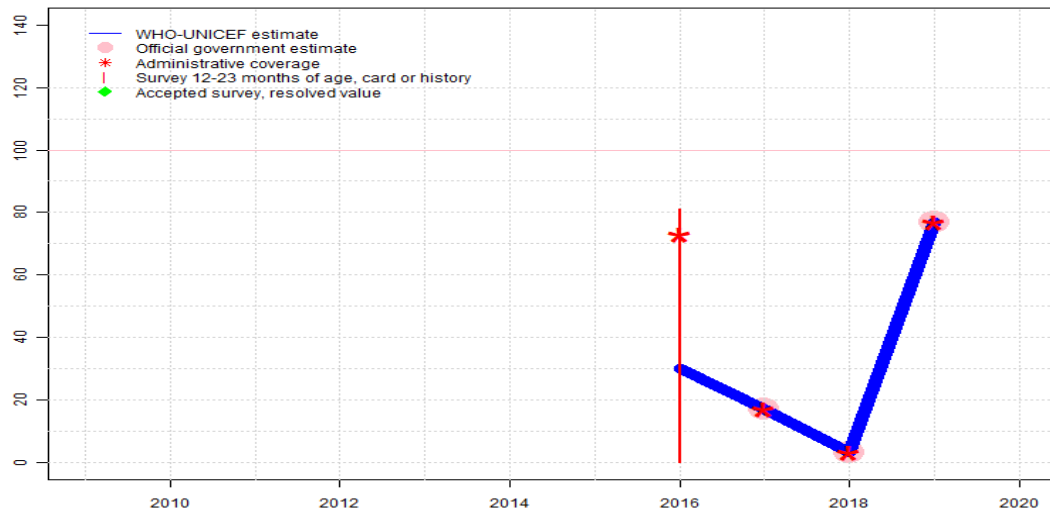
69 percent. GoC=Assigned by working group. .

2010: Estimate based on interpolation between 2009 and 2011 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .

2009: Estimate of 78 percent assigned by working group. Estimate based on survey result. Guinea-Bissau 4th Multiple Indicator Cluster Survey 2010 card or history results of 79 percent modified for recall bias to 78 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 80 percent and 3rd dose card only coverage of 66 percent. GoC=Assigned by working group. .

Guinea-Bissau - IPV1

GNB - IPV1



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	NA	NA	NA	NA	NA	NA	NA	30	17	3	77	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	•	•	•	•	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	17	3	77	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	73	17	3	77	NA
Survey	NA	NA	NA	NA	NA	NA	NA	81	NA	NA	NA	NA

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- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2020 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.

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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).

2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices.. Estimate of 77 percent changed from previous revision value of 84 percent. GoC=Assigned by working group. .

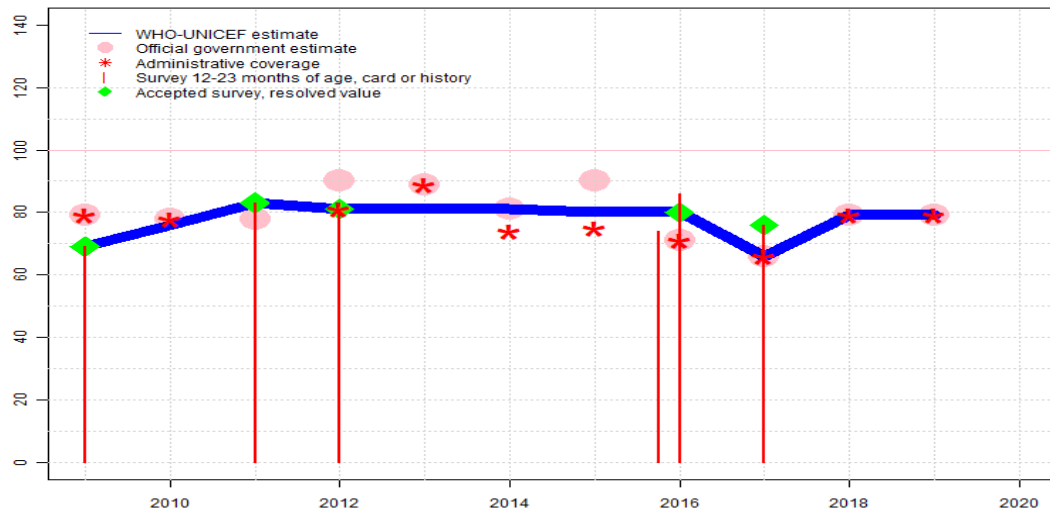
2018: . Reported data excluded due to decline in reported coverage from 17 percent to 3 percent with increase to 77 percent. Programme reports eleven month vaccine stock-out at national level. GoC=Assigned by working group. .

2017: Programme reports 7 months stock out. GoC=Assigned by working group. .

2016: Programme reports coverage of 73 percent in 42 percent of the target population. Estimate based on annualized coverage for target population. Guinea-Bissau Vaccine Coverage Survey Report 2017 results ignored by working group. Survey estimate is inconsistent with period of introduction and reported number of doses administered. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. GoC=Assigned by working group. .

Guinea-Bissau - MCV1

GNB - MCV1



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	69	76	83	81	81	81	80	80	66	79	79	NA
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	NA
Official	79	78	78	90	89	81	90	71	66	79	79	NA
Administrative	79	78	NA	81	89	74	75	71	66	79	79	NA
Survey	69	NA	83	81	NA	NA	NA	*	76	NA	NA	NA

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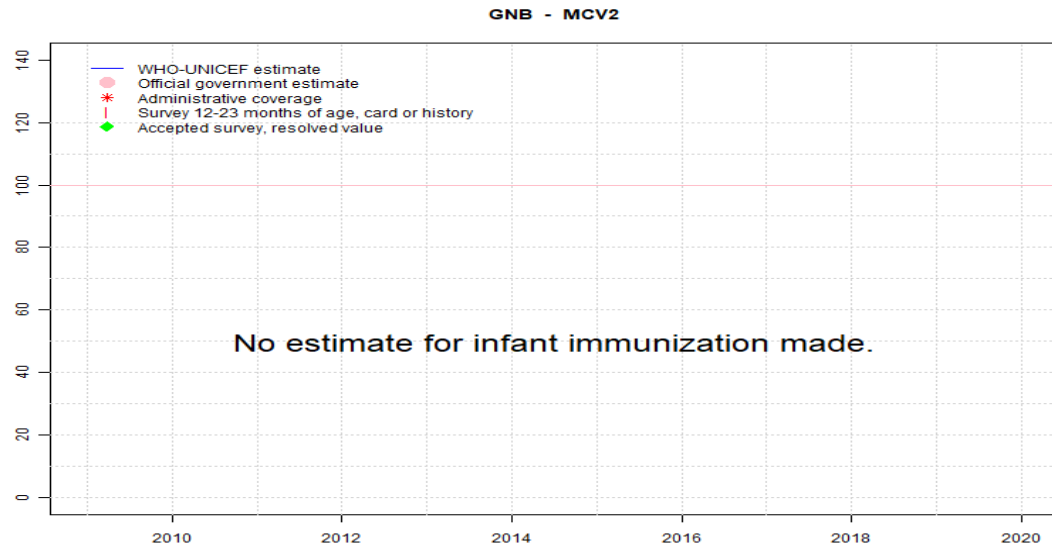
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2020 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
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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:

- 2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices. Estimate of 79 percent changed from previous revision value of 86 percent. GoC=Assigned by working group. .
- 2018: Estimate based on coverage reported by national government. Programme reports one month vaccine stock-out at national level. Estimate of 79 percent changed from previous revision value of 86 percent. GoC=Assigned by working group. .
- 2017: Estimate based on coverage reported by national government supported by survey. Survey evidence of 76 percent based on 1 survey(s). Programme reports 1 month sockout. Estimate of 66 percent changed from previous revision value of 86 percent. GoC=Assigned by working group. .
- 2016: Estimate of 80 percent assigned by working group. Estimate based on survey result. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. Estimate of 80 percent changed from previous revision value of 86 percent. GoC=Assigned by working group. .
- 2015: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 80 percent changed from previous revision value of 85 percent. GoC=Assigned by working group. .
- 2014: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 81 percent changed from previous revision value of 84 percent. GoC=Assigned by working group. .
- 2013: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 81 percent changed from previous revision value of 82 percent. GoC=Assigned by working group. .
- 2012: Estimate of 81 percent assigned by working group. Estimate based on survey result. GoC=Assigned by working group. .
- 2011: Estimate of 83 percent assigned by working group. Estimate based on survey result. GoC=Assigned by working group. .
- 2010: Estimate based on interpolation between 2009 and 2011 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2009: Estimate of 69 percent assigned by working group. Estimate based on survey result. GoC=Assigned by working group. .

Guinea-Bissau - MCV2



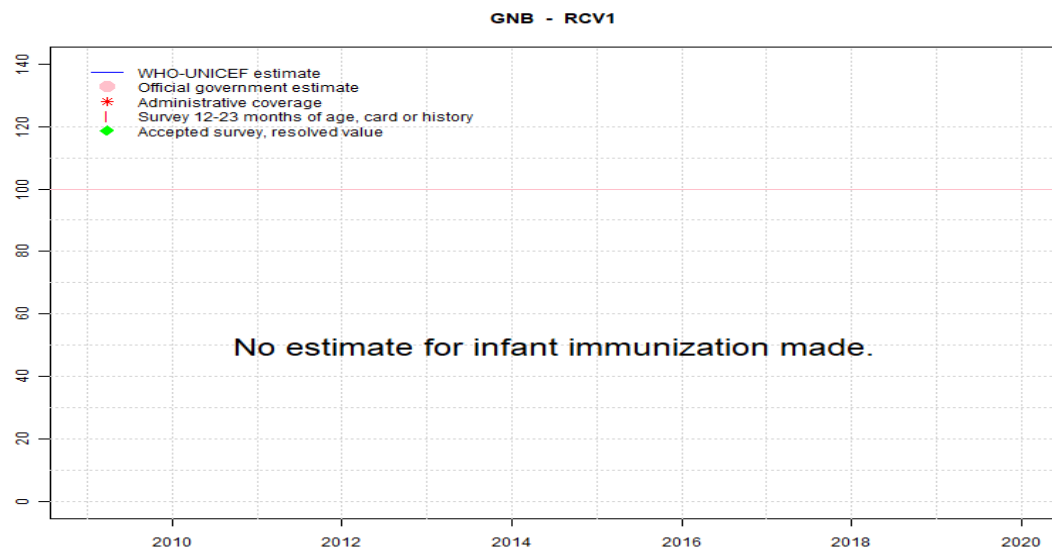
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: 2020 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.

Guinea-Bissau - RCV1



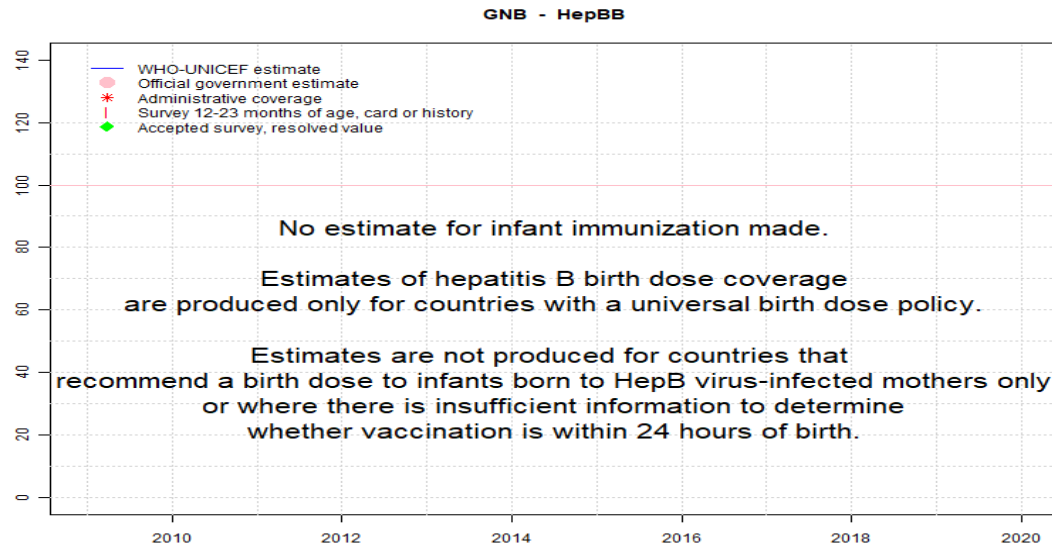
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: 2020 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.

Guinea-Bissau - HepBB



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA

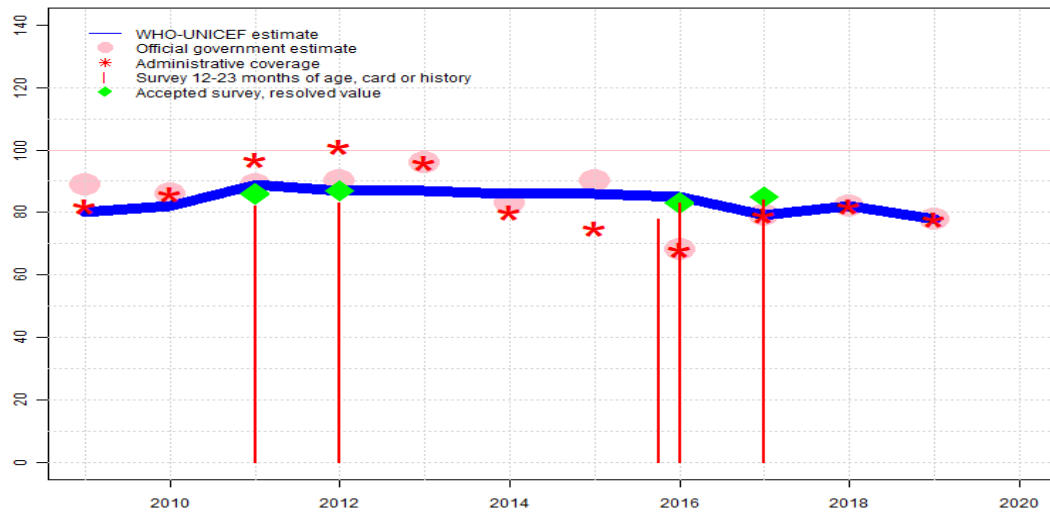
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2020 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.

Guinea-Bissau - HepB3

GNB - HepB3



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	80	82	89	87	87	86	86	85	79	82	78	NA
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	NA
Official	89	86	89	90	96	83	90	68	79	82	78	NA
Administrative	82	86	97	101	96	80	75	68	79	82	78	NA
Survey	NA	NA	82	83	NA	NA	NA	*	84	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: 2020 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:

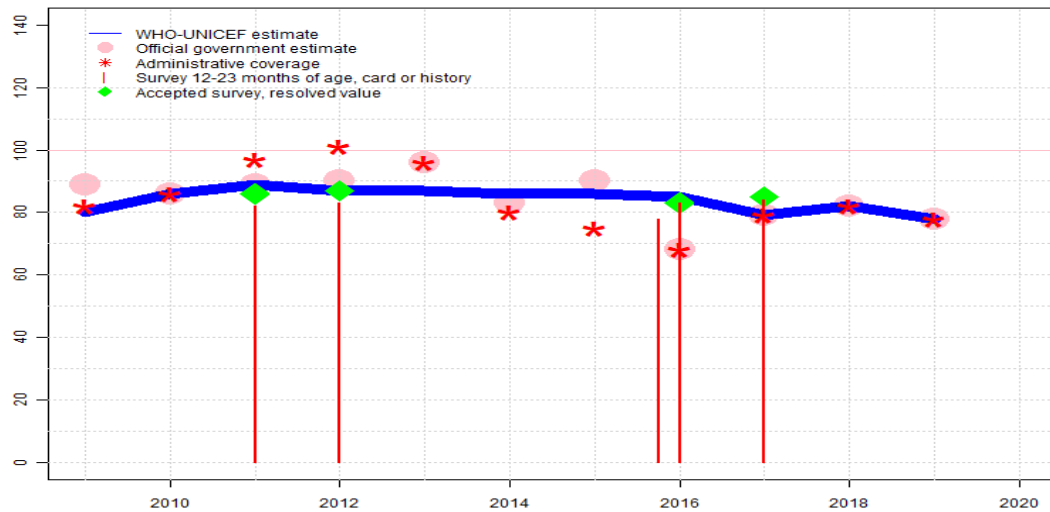
- 2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices. Estimate of 78 percent changed from previous revision value of 84 percent. GoC=Assigned by working group. .
- 2018: Estimate based on coverage reported by national government. Estimate of 82 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2017: Estimate based on coverage reported by national government supported by survey. Survey evidence of 85 percent based on 1 survey(s). Guinea-Bissau Multiple Indicator Cluster Survey 2018-2019 card or history results of 84 percent modified for recall bias to 85 percent based on 1st dose card or history coverage of 93 percent, 1st dose card only coverage of 84 percent and 3rd dose card only coverage of 77 percent. Estimate of 79 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2016: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 83 percent based on 2 survey(s). Guinea-Bissau Vaccine Coverage Survey Report 2017 card or history results of 83 percent modified for recall bias to 88 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 83 percent and 3rd dose card only coverage of 82 percent. Reported data excluded due to decline in reported coverage from 90 percent to 68 percent with increase to 79 percent. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. Estimate of 85 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2015: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 86 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2014: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 86 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2013: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2012: Estimate of 87 percent assigned by working group. Estimate based on survey result. Guinea-Bissau Multiple Indicator Cluster Survey 2014 card or history results of 83 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 82 percent and 3rd dose card only coverage of 76 percent. GoC=Assigned by working group. .
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 86 percent based on 1 survey(s). Guinea-Bissau Multiple Indicator Cluster Survey 2014 card or history results of 82 percent modified for recall bias to 86 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 74 percent and 3rd dose card only coverage of 69 percent. GoC=Assigned by working group. .

Guinea-Bissau - HepB3

2010: Reported data calibrated to 2009 and 2011 levels. GoC=Assigned by working group. .
2009: Estimate of 80 percent assigned by working group. Estimate based on survey result.
HepB vaccine introduced in 2008. Reporting started in 2009. Vaccine presentation is
DTP-HepB-Hib. GoC=Assigned by working group. .

Guinea-Bissau - Hib3

GNB - Hib3



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	80	86	89	87	87	86	86	85	79	82	78	NA
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	NA
Official	89	86	89	90	96	83	90	68	79	82	78	NA
Administrative	82	86	97	101	96	80	75	68	79	82	78	NA
Survey	NA	NA	82	83	NA	NA	NA	*	84	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: 2020 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:

- 2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices. Estimate of 78 percent changed from previous revision value of 84 percent. GoC=Assigned by working group. .
- 2018: Estimate based on coverage reported by national government. Estimate of 82 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2017: Estimate based on coverage reported by national government supported by survey. Survey evidence of 85 percent based on 1 survey(s). Guinea-Bissau Multiple Indicator Cluster Survey 2018-2019 card or history results of 84 percent modified for recall bias to 85 percent based on 1st dose card or history coverage of 93 percent, 1st dose card only coverage of 84 percent and 3rd dose card only coverage of 77 percent. Estimate of 79 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2016: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 83 percent based on 2 survey(s). Guinea-Bissau Vaccine Coverage Survey Report 2017 card or history results of 83 percent modified for recall bias to 88 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 83 percent and 3rd dose card only coverage of 82 percent. Reported data excluded due to decline in reported coverage from 90 percent to 68 percent with increase to 79 percent. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. Estimate of 85 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2015: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 86 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2014: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. Estimate of 86 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2013: Estimate based on interpolation between 2012 and 2016 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2012: Estimate of 87 percent assigned by working group. Estimate based on survey result. Guinea-Bissau Multiple Indicator Cluster Survey 2014 card or history results of 83 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 82 percent and 3rd dose card only coverage of 76 percent. GoC=Assigned by working group. .
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 86 percent based on 1 survey(s). Guinea-Bissau Multiple Indicator Cluster Survey 2014 card or history results of 82 percent modified for recall bias to 86 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 74 percent and 3rd dose card only coverage of 69 percent. GoC=Assigned by working group. .

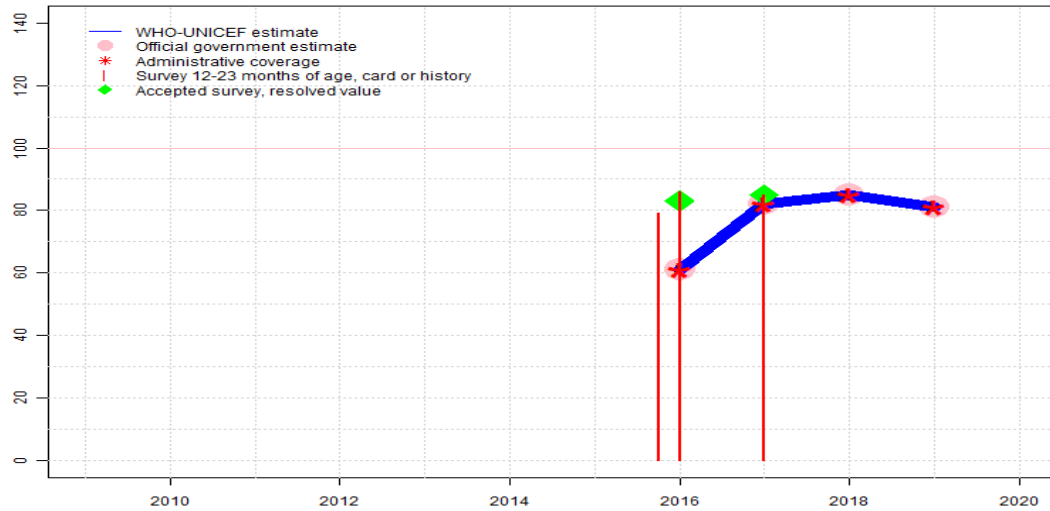
Guinea-Bissau - Hib3

2010: Estimate based on reported data. GoC=Assigned by working group. .

2009: Estimate based on survey result. Hib vaccine introduced in 2008. Reporting started in 2009. Vaccine presentation is DTP-HepB-Hib. GoC=Assigned by working group. .

Guinea-Bissau - RotaC

GNB - RotaC



Description:

- 2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices. Estimate of 81 percent changed from previous revision value of 84 percent. GoC=Assigned by working group. .
- 2018: Estimate based on coverage reported by national government. Estimate of 85 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2017: Estimate based on coverage reported by national government supported by survey. Survey evidence of 85 percent based on 1 survey(s). Estimate of 82 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2016: Estimate is exceptionally based on reported data. Rotavirus vaccine introduction in 2016. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. GoC=Assigned by working group. .

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	NA	NA	NA	NA	NA	NA	NA	61	82	85	81	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	•	•	•	•	NA
Official	NA	NA	NA	NA	NA	NA	NA	61	82	85	81	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	61	82	85	81	NA
Survey	NA	NA	NA	NA	NA	NA	NA	*	85	NA	NA	NA

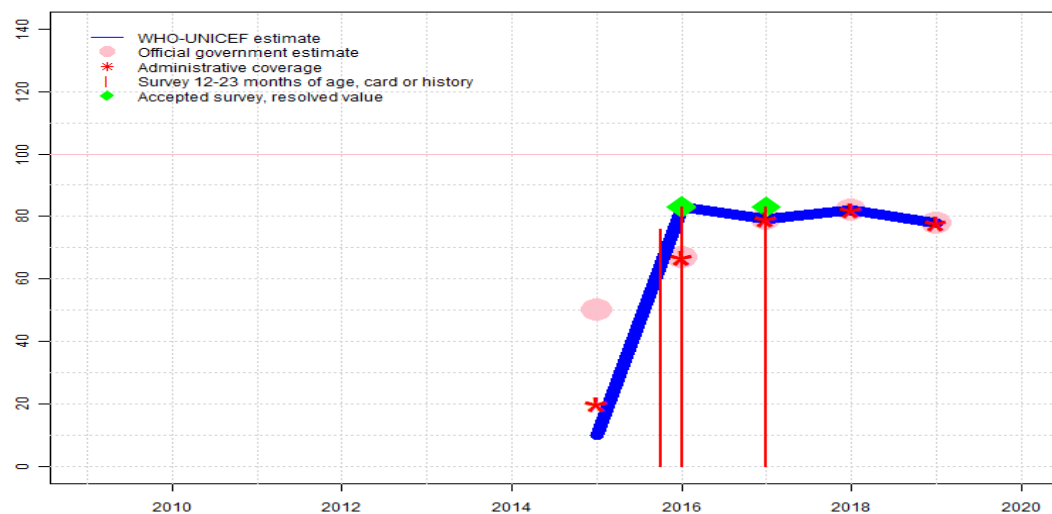
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2020 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.

Guinea-Bissau - PcV3

GNB - PcV3



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	NA	NA	NA	NA	NA	NA	10	83	79	82	78	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	•	•	•	•	•	NA
Official	NA	NA	NA	NA	NA	NA	50	67	79	82	78	NA
Administrative	NA	NA	NA	NA	NA	NA	20	67	79	82	78	NA
Survey	NA	NA	NA	NA	NA	NA	NA	*	83	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: 2020 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.

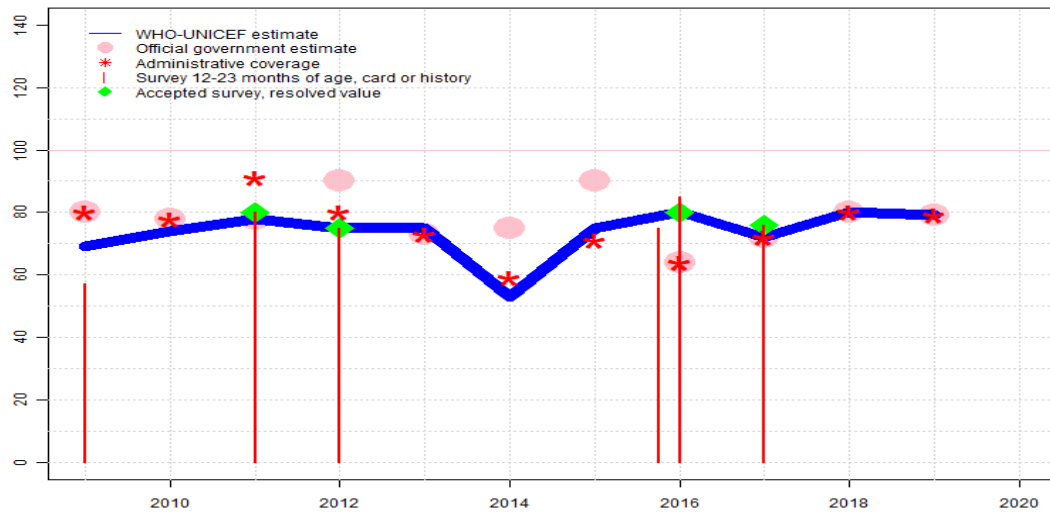
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices. Estimate of 78 percent changed from previous revision value of 84 percent. GoC=Assigned by working group. .
- 2018: Estimate based on coverage reported by national government. Estimate of 82 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2017: Estimate based on coverage reported by national government supported by survey. Survey evidence of 83 percent based on 1 survey(s). Estimate of 79 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2016: Estimate of 83 percent assigned by working group. Estimate follows DTP3 coverage levels. Guinea-Bissau Vaccine Coverage Survey Report 2017 card or history results of 83 percent modified for recall bias to 87 percent based on 1st dose card or history coverage of 88 percent, 1st dose card only coverage of 83 percent and 3rd dose card only coverage of 82 percent. Guinea-Bissau Multiple Indicator Cluster Survey 2018-2019 card or history results of 76 percent modified for recall bias to 78 percent based on 1st dose card or history coverage of 87 percent, 1st dose card only coverage of 68 percent and 3rd dose card only coverage of 61 percent. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. Estimate of 83 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. .
- 2015: Programme reports 20 percent coverage in 50 percent of the national target population. Estimate is based on coverage achieved in total national annual birth cohort. Pneumococcal conjugate vaccine introduced during 2015. GoC=Assigned by working group. .

Guinea-Bissau - YFV

GNB - YFV



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	69	74	78	75	75	53	75	80	72	80	79	NA
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	NA
Official	80	78	78	90	73	75	90	64	72	80	79	NA
Administrative	80	78	91	80	73	59	71	64	72	80	79	NA
Survey	57	NA	80	75	NA	NA	NA	*	76	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: 2020 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:

- 2019: Estimate based on coverage reported by national government. WHO and UNICEF encourage activities to improve the recording and reporting practices. Estimate of 79 percent changed from previous revision value of 84 percent. GoC=Assigned by working group. .
- 2018: Estimate based on coverage reported by national government. Estimate of 80 percent changed from previous revision value of 85 percent. GoC=Assigned by working group. .
- 2017: Estimate based on coverage reported by national government supported by survey. Survey evidence of 76 percent based on 1 survey(s). Estimate of 72 percent changed from previous revision value of 85 percent. GoC=Assigned by working group. .
- 2016: Estimate of 80 percent assigned by working group. Estimate is based on survey result. Data reported show an unexplained decrease in number of children vaccinated since 2014 and an increase in denominator between 2013 and 2014. Estimate of 80 percent changed from previous revision value of 85 percent. GoC=Assigned by working group. .
- 2015: Estimate of 75 percent assigned by working group. Estimate is based on 2013 coverage level. Reported number of children vaccinated during 2015 suggests recovery from stock-out reported in 2014. However, programme also reports a stock-out of YFV vaccine during 2015. Reported data excluded due to an increase from 75 percent to 90 percent with decrease 64 percent. GoC=Assigned by working group. .
- 2014: Programme reports a two month stock-out of yellow fever vaccine at the national level. GoC=Assigned by working group. .
- 2013: Estimate of 75 percent assigned by working group. Estimate based on survey results. GoC=Assigned by working group. .
- 2012: Estimate of 75 percent assigned by working group. Estimate based on survey results. Reported data excluded due to an increase from 78 percent to 90 percent with decrease 73 percent. GoC=Assigned by working group. .
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 80 percent based on 1 survey(s). GoC=Assigned by working group. .
- 2010: Estimate based on interpolation between 2009 and 2011 levels. Fluctuations in reported data suggest poor quality administrative recording and reporting. GoC=Assigned by working group. .
- 2009: Estimate of 69 percent assigned by working group. Estimate is based on estimated measles coverage Guinea-Bissau 4th Multiple Indicator Cluster Survey 2010 results ignored by working group. Survey results ignored. Survey conducted shortly after vaccine introduction. GoC=Assigned by working group. .

Guinea-Bissau - survey details

2017 Guinea-Bissau Inquérito aos Indicadores Múltiplos 2018-2019

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	93.7	12-23 m	1426	86
BCG	Card	85.5	12-23 m	1426	86
BCG	Card or History	94.2	12-23 m	1426	86
BCG	History	8.7	12-23 m	1426	86
DTP1	C or H <12 months	92.3	12-23 m	1426	86
DTP1	Card	84.4	12-23 m	1426	86
DTP1	Card or History	93	12-23 m	1426	86
DTP1	History	8.5	12-23 m	1426	86
DTP3	C or H <12 months	81.9	12-23 m	1426	86
DTP3	Card	76.9	12-23 m	1426	86
DTP3	Card or History	84.5	12-23 m	1426	86
DTP3	History	7.6	12-23 m	1426	86
HepB1	C or H <12 months	92.3	12-23 m	1426	86
HepB1	Card	84.4	12-23 m	1426	86
HepB1	Card or History	93	12-23 m	1426	86
HepB1	History	8.5	12-23 m	1426	86
HepB3	C or H <12 months	81.9	12-23 m	1426	86
HepB3	Card	76.9	12-23 m	1426	86
HepB3	Card or History	84.5	12-23 m	1426	86
HepB3	History	7.6	12-23 m	1426	86
Hib1	C or H <12 months	92.3	12-23 m	1426	86
Hib1	Card	84.4	12-23 m	1426	86
Hib1	Card or History	93	12-23 m	1426	86
Hib1	History	8.5	12-23 m	1426	86
Hib3	C or H <12 months	81.9	12-23 m	1426	86
Hib3	Card	76.9	12-23 m	1426	86
Hib3	Card or History	84.5	12-23 m	1426	86
Hib3	History	7.6	12-23 m	1426	86
MCV1	C or H <12 months	69.2	12-23 m	1426	86
MCV1	Card	67.4	12-23 m	1426	86
MCV1	Card or History	75.5	12-23 m	1426	86
MCV1	History	8.1	12-23 m	1426	86
PCV1	C or H <12 months	90.6	12-23 m	1426	86
PCV1	Card	83.1	12-23 m	1426	86
PCV1	Card or History	91.4	12-23 m	1426	86
PCV1	History	8.2	12-23 m	1426	86
PCV3	C or H <12 months	80.7	12-23 m	1426	86

PCV3	Card	76	12-23 m	1426	86
PCV3	Card or History	83.3	12-23 m	1426	86
PCV3	History	7.2	12-23 m	1426	86
Pol1	C or H <12 months	91.4	12-23 m	1426	86
Pol1	Card	84.6	12-23 m	1426	86
Pol1	Card or History	91.9	12-23 m	1426	86
Pol1	History	7.3	12-23 m	1426	86
Pol3	C or H <12 months	76.2	12-23 m	1426	86
Pol3	Card	76.9	12-23 m	1426	86
Pol3	Card or History	78.3	12-23 m	1426	86
Pol3	History	1.3	12-23 m	1426	86
RotaC	C or H <12 months	82.9	12-23 m	1426	86
RotaC	Card	76.9	12-23 m	1426	86
RotaC	Card or History	85	12-23 m	1426	86
RotaC	History	8.1	12-23 m	1426	86
YFV	C or H <12 months	69.6	12-23 m	1426	86
YFV	Card	67.4	12-23 m	1426	86
YFV	Card or History	75.6	12-23 m	1426	86
YFV	History	8.2	12-23 m	1426	86

2016 Guinea-Bissau Inquérito aos Indicadores Múltiplos 2018-2019

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	89.7	24-35 m	1509	86
BCG	Card	70.5	24-35 m	1509	86
BCG	Card or History	90.6	24-35 m	1509	86
BCG	History	20.2	24-35 m	1509	86
DTP1	C or H <12 months	88.4	24-35 m	1509	86
DTP1	Card	69.7	24-35 m	1509	86
DTP1	Card or History	89.8	24-35 m	1509	86
DTP1	History	20.1	24-35 m	1509	86
DTP3	C or H <12 months	72.3	24-35 m	1509	86
DTP3	Card	61.1	24-35 m	1509	86
DTP3	Card or History	77.8	24-35 m	1509	86
DTP3	History	16.6	24-35 m	1509	86
HepB1	C or H <12 months	88.4	24-35 m	1509	86
HepB1	Card	69.7	24-35 m	1509	86
HepB1	Card or History	89.8	24-35 m	1509	86
HepB1	History	20.1	24-35 m	1509	86

Guinea-Bissau - survey details

HepB3	C or H <12 months	72.3	24-35 m	1509	86
HepB3	Card	61.1	24-35 m	1509	86
HepB3	Card or History	77.8	24-35 m	1509	86
HepB3	History	16.6	24-35 m	1509	86
Hib1	C or H <12 months	88.4	24-35 m	1509	86
Hib1	Card	69.7	24-35 m	1509	86
Hib1	Card or History	89.8	24-35 m	1509	86
Hib1	History	20.1	24-35 m	1509	86
Hib3	C or H <12 months	72.3	24-35 m	1509	86
Hib3	Card	61.1	24-35 m	1509	86
Hib3	Card or History	77.8	24-35 m	1509	86
Hib3	History	16.6	24-35 m	1509	86
MCV1	C or H <12 months	63.2	24-35 m	1509	86
MCV1	Card	55.2	24-35 m	1509	86
MCV1	Card or History	74.4	24-35 m	1509	86
MCV1	History	19.2	24-35 m	1509	86
PCV1	C or H <12 months	85.9	24-35 m	1509	86
PCV1	Card	68.3	24-35 m	1509	86
PCV1	Card or History	87.1	24-35 m	1509	86
PCV1	History	18.8	24-35 m	1509	86
PCV3	C or H <12 months	70.4	24-35 m	1509	86
PCV3	Card	60.7	24-35 m	1509	86
PCV3	Card or History	75.6	24-35 m	1509	86
PCV3	History	15	24-35 m	1509	86
Pol1	C or H <12 months	82.3	24-35 m	1509	86
Pol1	Card	69.7	24-35 m	1509	86
Pol1	Card or History	83.6	24-35 m	1509	86
Pol1	History	13.9	24-35 m	1509	86
Pol3	C or H <12 months	58.5	24-35 m	1509	86
Pol3	Card	60.7	24-35 m	1509	86
Pol3	Card or History	62.7	24-35 m	1509	86
Pol3	History	2	24-35 m	1509	86
RotaC	C or H <12 months	75.9	24-35 m	1509	86
RotaC	Card	60.7	24-35 m	1509	86
RotaC	Card or History	78.6	24-35 m	1509	86
RotaC	History	17.9	24-35 m	1509	86
YFV	C or H <12 months	63.3	24-35 m	1509	86
YFV	Card	55.8	24-35 m	1509	86
YFV	Card or History	74.8	24-35 m	1509	86
YFV	History	19	24-35 m	1509	86

2016 Relatorio do Inquerito de Cobertura Vacinal 2017

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	83	12-23 m	1408	82
BCG	Card or History	91	12-23 m	1408	82
BCG	History	8	12-23 m	1408	82
DTP1	Card	83	12-23 m	1408	82
DTP1	Card or History	89	12-23 m	1408	82
DTP1	History	6	12-23 m	1408	82
DTP3	Card	82	12-23 m	1408	82
DTP3	Card or History	83	12-23 m	1408	82
DTP3	History	1	12-23 m	1408	82
HepB1	Card	83	12-23 m	1408	82
HepB1	Card or History	89	12-23 m	1408	82
HepB1	History	6	12-23 m	1408	82
HepB3	Card	82	12-23 m	1408	82
HepB3	Card or History	83	12-23 m	1408	82
HepB3	History	1	12-23 m	1408	82
Hib1	Card	83	12-23 m	1408	82
Hib1	Card or History	89	12-23 m	1408	82
Hib1	History	6	12-23 m	1408	82
Hib3	Card	82	12-23 m	1408	82
Hib3	Card or History	83	12-23 m	1408	82
Hib3	History	1	12-23 m	1408	82
IPV1	Card	81	12-23 m	1408	82
IPV1	Card or History	81	12-23 m	1408	82
IPV1	History	0	12-23 m	1408	82
MCV1	Card	81	12-23 m	1408	82
MCV1	Card or History	86	12-23 m	1408	82
MCV1	History	5	12-23 m	1408	82
PCV1	Card	83	12-23 m	1408	82
PCV1	Card or History	88	12-23 m	1408	82
PCV1	History	5	12-23 m	1408	82
PCV3	Card	82	12-23 m	1408	82
PCV3	Card or History	83	12-23 m	1408	82
PCV3	History	1	12-23 m	1408	82
Pol1	Card	83	12-23 m	1408	82
Pol1	Card or History	90	12-23 m	1408	82

Guinea-Bissau - survey details

Pol1	History	7	12-23 m	1408	82
Pol3	Card	82	12-23 m	1408	82
Pol3	Card or History	86	12-23 m	1408	82
Pol3	History	4	12-23 m	1408	82
RotaC	Card	82	12-23 m	1408	82
RotaC	Card or History	86	12-23 m	1408	82
RotaC	History	4	12-23 m	1408	82
YFV	Card	80	12-23 m	1408	82
YFV	Card or History	85	12-23 m	1408	82
YFV	History	5	12-23 m	1408	82

Pol1	Card	82.3	12-23 m	1612	83
Pol1	Card or History	94.3	12-23 m	1612	83
Pol3	C or H <12 months	69.7	12-23 m	1612	83
Pol3	Card	76	12-23 m	1612	83
Pol3	Card or History	77.4	12-23 m	1612	83
YFV	C or H <12 months	53.6	12-23 m	1612	83
YFV	Card	63.3	12-23 m	1612	83
YFV	Card or History	74.9	12-23 m	1612	83

2011 Guine-Bissau: Inquerito aos Indicadores Multiplos 2014

2012 Guine-Bissau: Inquerito aos Indicadores Multiplos 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	90.5	12-23 m	1612	83
BCG	Card	80	12-23 m	1612	83
BCG	Card or History	93.5	12-23 m	1612	83
DTP1	C or H <12 months	91.9	12-23 m	1612	83
DTP1	Card	81.9	12-23 m	1612	83
DTP1	Card or History	93.8	12-23 m	1612	83
DTP3	C or H <12 months	74.2	12-23 m	1612	83
DTP3	Card	75.9	12-23 m	1612	83
DTP3	Card or History	82.9	12-23 m	1612	83
HepB1	C or H <12 months	91.9	12-23 m	1612	83
HepB1	Card	81.9	12-23 m	1612	83
HepB1	Card or History	93.8	12-23 m	1612	83
HepB3	C or H <12 months	74.2	12-23 m	1612	83
HepB3	Card	75.9	12-23 m	1612	83
HepB3	Card or History	82.9	12-23 m	1612	83
Hib1	C or H <12 months	91.9	12-23 m	1612	83
Hib1	Card	81.9	12-23 m	1612	83
Hib1	Card or History	93.8	12-23 m	1612	83
Hib3	C or H <12 months	74.2	12-23 m	1612	83
Hib3	Card	75.9	12-23 m	1612	83
Hib3	Card or History	82.9	12-23 m	1612	83
MCV1	C or H <12 months	64.8	12-23 m	1612	83
MCV1	Card	69.4	12-23 m	1612	83
MCV1	Card or History	81.3	12-23 m	1612	83
Pol1	C or H <12 months	92.7	12-23 m	1612	83

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	86.6	24-35 m	1501	83
BCG	Card	71.5	24-35 m	1501	83
BCG	Card or History	91.6	24-35 m	1501	83
DTP1	C or H <12 months	87.4	24-35 m	1501	83
DTP1	Card	73.7	24-35 m	1501	83
DTP1	Card or History	91.6	24-35 m	1501	83
DTP3	C or H <12 months	72	24-35 m	1501	83
DTP3	Card	69.1	24-35 m	1501	83
DTP3	Card or History	81.7	24-35 m	1501	83
HepB1	C or H <12 months	87.4	24-35 m	1501	83
HepB1	Card	73.7	24-35 m	1501	83
HepB1	Card or History	91.6	24-35 m	1501	83
HepB3	C or H <12 months	72	24-35 m	1501	83
HepB3	Card	69.1	24-35 m	1501	83
HepB3	Card or History	81.7	24-35 m	1501	83
Hib1	C or H <12 months	87.4	24-35 m	1501	83
Hib1	Card	73.7	24-35 m	1501	83
Hib1	Card or History	91.6	24-35 m	1501	83
Hib3	C or H <12 months	72	24-35 m	1501	83
Hib3	Card	69.1	24-35 m	1501	83
Hib3	Card or History	81.7	24-35 m	1501	83
MCV1	C or H <12 months	59	24-35 m	1501	83
MCV1	Card	64.6	24-35 m	1501	83
MCV1	Card or History	82.6	24-35 m	1501	83
Pol1	C or H <12 months	87.3	24-35 m	1501	83
Pol1	Card	73.5	24-35 m	1501	83
Pol1	Card or History	91.2	24-35 m	1501	83

Guinea-Bissau - survey details

Pol3	C or H <12 months	63.3	24-35 m	1501	83
Pol3	Card	68.9	24-35 m	1501	83
Pol3	Card or History	71.5	24-35 m	1501	83
YFV	C or H <12 months	55.2	24-35 m	1501	83
YFV	Card	62.5	24-35 m	1501	83
YFV	Card or History	80	24-35 m	1501	83

2009 Guiné-Bissau 2010 4º Inquérito por amostragem aos Indicadores Múltiplos

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	93.5	12-23 m	2695	83
BCG	Card	79.7	12-23 m	2695	83
BCG	Card or History	94.4	12-23 m	2695	83
BCG	History	14.7	12-23 m	2695	83
DTP1	C or H <12 months	92.2	12-23 m	2695	83
DTP1	Card	79.8	12-23 m	2695	83
DTP1	Card or History	93.7	12-23 m	2695	83
DTP1	History	13.9	12-23 m	2695	83
DTP3	C or H <12 months	76	12-23 m	2695	83
DTP3	Card	68.4	12-23 m	2695	83
DTP3	Card or History	81	12-23 m	2695	83
DTP3	History	12.6	12-23 m	2695	83
MCV1	C or H <12 months	60.7	12-23 m	2695	83
MCV1	Card	54.3	12-23 m	2695	83
MCV1	Card or History	69.2	12-23 m	2695	83
MCV1	History	14.8	12-23 m	2695	83
Pol1	C or H <12 months	92.2	12-23 m	2695	83
Pol1	Card	80.1	12-23 m	2695	83
Pol1	Card or History	93.8	12-23 m	2695	83
Pol1	History	13.7	12-23 m	2695	83
Pol3	C or H <12 months	73.4	12-23 m	2695	83
Pol3	Card	65.8	12-23 m	2695	83
Pol3	Card or History	79	12-23 m	2695	83
Pol3	History	13.1	12-23 m	2695	83
YFV	C or H <12 months	48.9	12-23 m	2695	83
YFV	Card	43.6	12-23 m	2695	83
YFV	Card or History	56.9	12-23 m	2695	83
YFV	History	13.2	12-23 m	2695	83

2005 Guinée-Bissau, Enquête par Grappes à Indicateurs Multiples, 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	87.1	12-23 m	1275	78
BCG	Card	75.7	12-23 m	1275	78
BCG	Card or History	88.9	12-23 m	1275	78
BCG	History	13.2	12-23 m	1275	78
DTP1	C or H <12 months	80.1	12-23 m	1275	78
DTP1	Card	70.2	12-23 m	1275	78
DTP1	Card or History	82.7	12-23 m	1275	78
DTP1	History	12.5	12-23 m	1275	78
DTP3	C or H <12 months	59.1	12-23 m	1275	78
DTP3	Card	57.4	12-23 m	1275	78
DTP3	Card or History	62.8	12-23 m	1275	78
DTP3	History	5.4	12-23 m	1275	78
MCV1	C or H <12 months	71.2	12-23 m	1275	78
MCV1	Card	63.5	12-23 m	1275	78
MCV1	Card or History	75.5	12-23 m	1275	78
MCV1	History	12	12-23 m	1275	78
Pol1	C or H <12 months	84.9	12-23 m	1275	78
Pol1	Card	73.4	12-23 m	1275	78
Pol1	Card or History	87	12-23 m	1275	78
Pol1	History	13.6	12-23 m	1275	78
Pol3	C or H <12 months	59.7	12-23 m	1275	78
Pol3	Card	61	12-23 m	1275	78
Pol3	Card or History	64.1	12-23 m	1275	78
Pol3	History	3.1	12-23 m	1275	78

1999 Multiple Indicator Cluster Survey Guinea Bissau, 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	42.2	12-23 m	1119	63
BCG	Card or History	74	12-23 m	1119	63
BCG	History	31.8	12-23 m	1119	63
DTP1	Card	38.4	12-23 m	1119	63
DTP1	Card or History	68.5	12-23 m	1119	63
DTP1	History	30.8	12-23 m	1119	63

Guinea-Bissau - survey details

DTP3	Card	25.3	12-23 m	1119	63	Pol1	Card or History	76.5	12-23 m	1119	63
DTP3	Card or History	37.8	12-23 m	1119	63	Pol1	History	33	12-23 m	1119	63
DTP3	History	12.5	12-23 m	1119	63	Pol3	Card	28.4	12-23 m	1119	63
MCV1	Card	38.3	12-23 m	1119	63	Pol3	Card or History	42.3	12-23 m	1119	63
MCV1	Card or History	70.2	12-23 m	1119	63	Pol3	History	13.9	12-23 m	1119	63
MCV1	History	31.9	12-23 m	1119	63						
Pol1	Card	43.5	12-23 m	1119	63						

Further information and estimates for previous years are available at:

<http://www.data.unicef.org/child-health/immunization>

<https://www.who.int/teams/immunization-vaccines-and-biologicals/immunization-analysis-and-insights/global-monitoring/data-statistics-and-graphics>