

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.

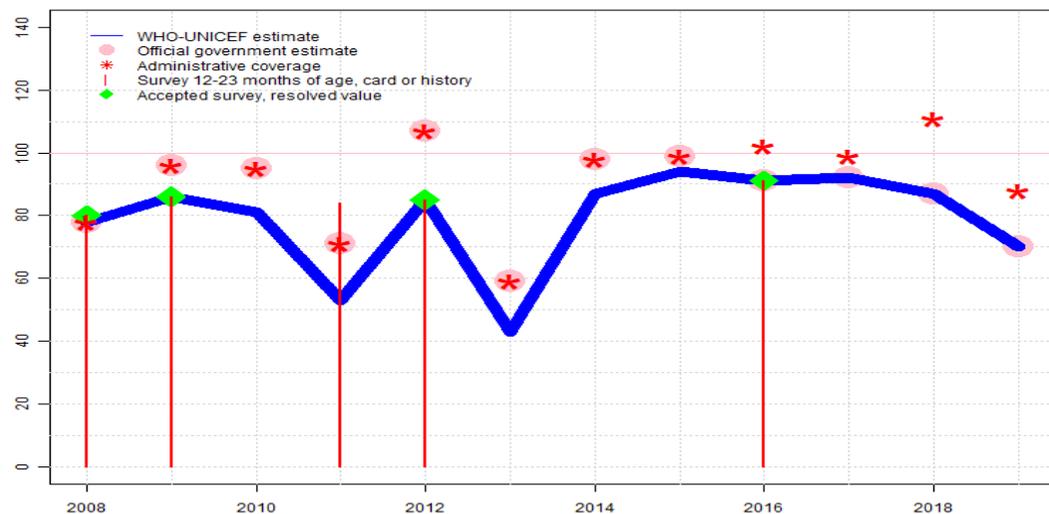
PcV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect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

Disclaimer: All reasonable precautions have been taken by the World Health Organization and United Nations Children's Fund to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the World Health Organization or United Nations Children's Fund be liable for damages arising from its use.

Niger - BCG

NER - BCG



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	78	86	81	53	85	43	87	94	91	92	87	70
Estimate GoC	●●●	●	●	●	●	●	●	●	●	●	●	●
Official	78	96	95	71	107	59	98	99	91	92	87	70
Administrative	78	96	95	71	107	59	98	99	102	99	111	88
Survey	80	86	NA	84	85	NA	NA	NA	91	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: 2019 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.

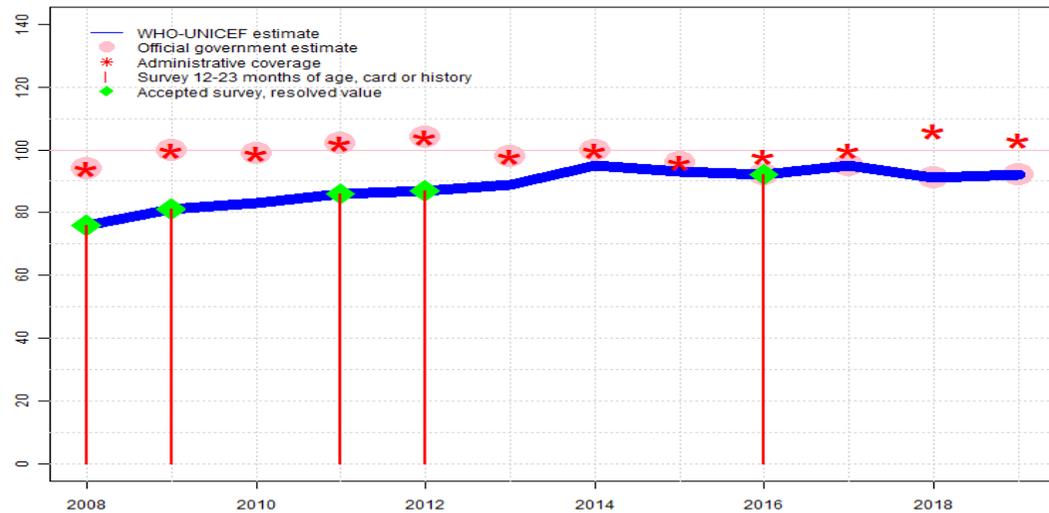
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2019: Estimate based on coverage reported by national government. Programme reports subnational vaccine stock-outs for all antigens in the infant immunization series. Programme reports 1.5 month vaccine stock-out at national level.. Estimate challenged by: D-
- 2018: Estimate based on coverage reported by national government. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. Estimate challenged by: D-
- 2017: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2016: Estimate based on coverage reported by national government supported by survey. Survey evidence of 91 percent based on 1 survey(s). Estimate challenged by: D-
- 2015: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2012 and 2016 levels. Recovery from stock-out during the prior year. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2012 and 2016 levels. Programme reports a five month stock-out at national level. Estimate challenged by: D-R-S-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 85 percent based on 1 survey(s). Rise in coverage reflects recovery from vaccine shortage. Estimate challenged by: D-R-
- 2011: Reported data calibrated to 2009 and 2012 levels. Demographic and Health / Multiple Indicator Survey of Niger EDSN-MICS-IV 2012 results ignored by working group. Survey results may not reflect three month stock-out. Decline in coverage reflects a 3-month vaccine stock-out. Estimate challenged by: D-R-S-
- 2010: Reported data calibrated to 2009 and 2012 levels. Estimate challenged by: D-R-
- 2009: Estimate of 86 percent assigned by working group. Estimate based on survey results to maintain consistency with other vaccines. Estimate challenged by: D-R-
- 2008: Estimate based on coverage reported by national government supported by survey. Survey evidence of 80 percent based on 1 survey(s). Decline in coverage due to stock out. GoC=R+ S+ D+

Niger - DTP1

NER - DTP1



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	76	81	83	86	87	89	95	93	92	95	91	92
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	94	100	99	102	104	98	100	96	92	95	91	92
Administrative	94	100	99	102	104	98	100	96	98	100	106	103
Survey	76	81	NA	86	87	NA	NA	NA	92	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: 2019 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.

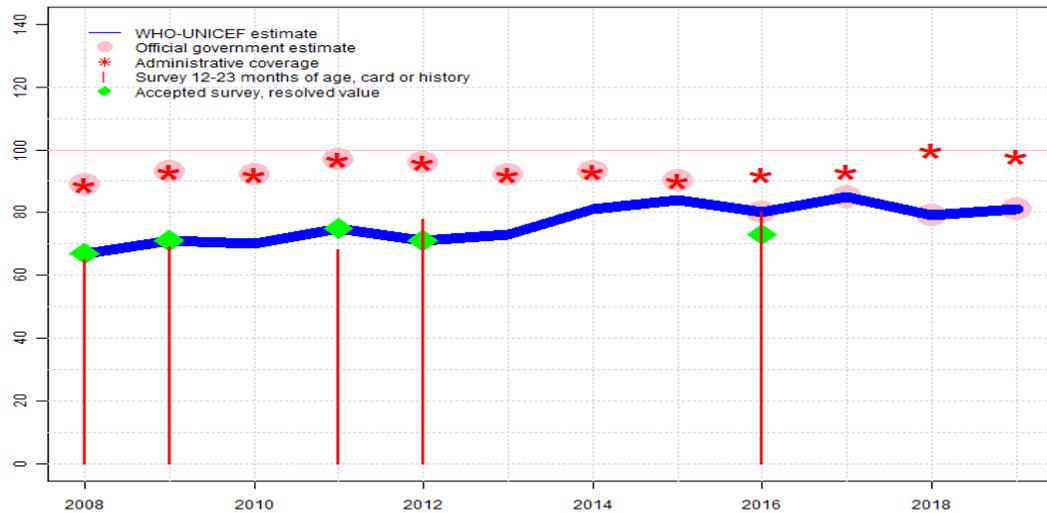
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2019: Estimate based on coverage reported by national government. Programme reports subnational vaccine stock-outs for all antigens in the infant immunization series. GoC=Assigned by working group. Consistency with other antigens.
- 2018: Estimate based on coverage reported by national government. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. GoC=Assigned by working group. GoC of 1 consistent with GoC for other estimates.
- 2017: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2016: Estimate based on coverage reported by national government supported by survey. Survey evidence of 92 percent based on 1 survey(s). Estimate challenged by: D-
- 2015: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 87 percent based on 1 survey(s). Reported data excluded because 104 percent greater than 100 percent. Estimate challenged by: D-R-
- 2011: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 86 percent based on 1 survey(s). Reported data excluded because 102 percent greater than 100 percent. Estimate challenged by: D-R-
- 2010: Reported data calibrated to 2009 and 2011 levels. Estimate challenged by: D-R-
- 2009: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 81 percent based on 1 survey(s). Estimate challenged by: D-R-S-
- 2008: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 76 percent based on 1 survey(s). Estimate challenged by: D-R-

Niger - DTP3

NER - DTP3



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	67	71	70	75	71	73	81	84	80	85	79	81
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	89	93	92	97	96	92	93	90	80	85	79	81
Administrative	89	93	92	97	96	92	93	90	92	93	100	98
Survey	65	69	NA	68	78	NA	NA	NA	80	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: 2019 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:

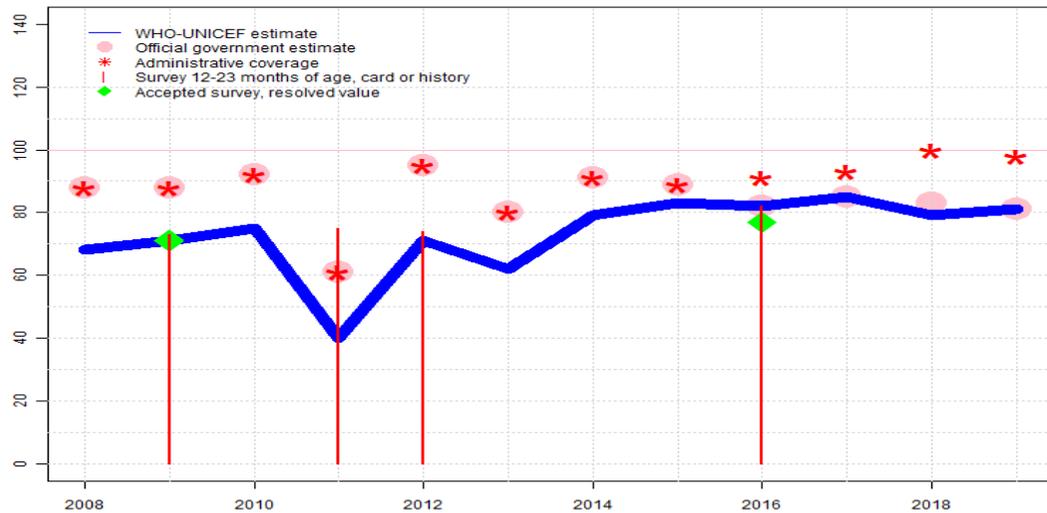
- 2019: Estimate based on coverage reported by national government. Programme reports sub-national vaccine stock-outs for all antigens in the infant immunization series. Estimate challenged by: D-
- 2018: Estimate based on coverage reported by national government. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. Estimate challenged by: D-
- 2017: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2016: Estimate based on coverage reported by national government supported by survey. Survey evidence of 73 percent based on 1 survey(s). 2017 Niger Vaccination Coverage Survey card or history results of 80 percent modified for recall bias to 73 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 68 percent and 3rd dose card only coverage of 54 percent. Estimate challenged by: D-
- 2015: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-S-
- 2014: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 71 percent based on 1 survey(s). Post measles campaign and routine immunization coverage evaluation survey, Niger, 2013 card or history results of 78 percent modified for recall bias to 71 percent based on 1st dose card or history coverage of 87 percent, 1st dose card only coverage of 44 percent and 3rd dose card only coverage of 36 percent. Estimate challenged by: D-R-
- 2011: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 75 percent based on 1 survey(s). Demographic and Health / Multiple Indicator Survey of Niger EDSN-MICS-IV 2012 card or history results of 68 percent modified for recall bias to 75 percent based on 1st dose card or history coverage of 86 percent, 1st dose card only coverage of 63 percent and 3rd dose card only coverage of 55 percent. Estimate challenged by: D-R-
- 2010: Reported data calibrated to 2009 and 2011 levels. Estimate challenged by: D-R-
- 2009: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 71 percent based on 1 survey(s). Niger Child Mortality and Survival Survey 2010, Preliminary Report on Survival Components card or history results of 69 percent modified for recall bias to 71 percent based on 1st dose card or history coverage of 81 percent, 1st dose card only coverage of 54 percent and 3rd dose card only coverage of 47 percent. Estimate challenged by: D-R-S-
- 2008: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 67 percent based on 1 survey(s). Niger National Nutrition and Child Survival Survey, May-June 2009 card or history results of 65 percent modified for recall bias to 67 percent based on 1st dose card or history coverage of 76 percent, 1st dose card only coverage of 48 percent and 3rd dose card only coverage of 42 percent. Estimate

Niger - DTP3

challenged by: D-R-

Niger - Pol3

NER - Pol3



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	68	71	75	40	71	62	79	83	82	85	79	81
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	88	88	92	61	95	80	91	89	82	85	83	81
Administrative	88	88	92	61	95	80	91	89	91	93	100	98
Survey	NA	73	NA	75	74	NA	NA	NA	82	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: 2019 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. Programme reports sub-national vaccine stock-outs for all antigens in the infant immunization series. Estimate challenged by: D-
- 2018: Estimate based on estimated DTP3 coverage. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. Estimate challenged by: D-R-
- 2017: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2016: Estimate based on coverage reported by national government supported by survey. Survey evidence of 77 percent based on 1 survey(s). 2017 Niger Vaccination Coverage Survey card or history results of 82 percent modified for recall bias to 77 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 66 percent and 3rd dose card only coverage of 55 percent. Estimate challenged by: D-
- 2015: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2012 and 2016 levels. Programme reports a two month stock-out of polio vaccine at the national level. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2012 and 2016 levels. Programme reports one month stock-out at national level. Estimate challenged by: D-R-
- 2012: Estimate of 71 percent assigned by working group. Estimate is based on the estimate for the third dose of DTP containing vaccine. Post measles campaign and routine immunization coverage evaluation survey, Niger, 2013 results ignored by working group. Survey results ignored due to magnitude of recall bias which are inconsistent with results observed for DTP3. Post measles campaign and routine immunization coverage evaluation survey, Niger, 2013 card or history results of 74 percent modified for recall bias to 34 percent based on 1st dose card or history coverage of 86 percent, 1st dose card only coverage of 38 percent and 3rd dose card only coverage of 15 percent. Rise in coverage reflects recovery from vaccine shortage.. Estimate challenged by: D-R-
- 2011: Reported data calibrated to 2010 and 2012 levels. Demographic and Health / Multiple Indicator Survey of Niger EDSN-MICS-IV 2012 results ignored by working group. Survey results may not reflect three month stock-out. Demographic and Health / Multiple Indicator Survey of Niger EDSN-MICS-IV 2012 card or history results of 75 percent modified for recall bias to 81 percent based on 1st dose card or history coverage of 93 percent, 1st dose card only coverage of 63 percent and 3rd dose card only coverage of 55 percent. Decline in coverage reflects a 3-month vaccine stock-out. Estimate challenged by: D-R-S-
- 2010: Estimate of 75 percent assigned by working group. Estimate is based on the estimate for the third dose of DTP containing vaccine. Estimate challenged by: D-R-
- 2009: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 71 percent based on 1 survey(s). Niger Child Mortality and Survival Survey 2010, Preliminary Report on Survival Components card or history results of 73 percent modified for recall bias to 71 percent based on 1st dose card or history coverage of 85

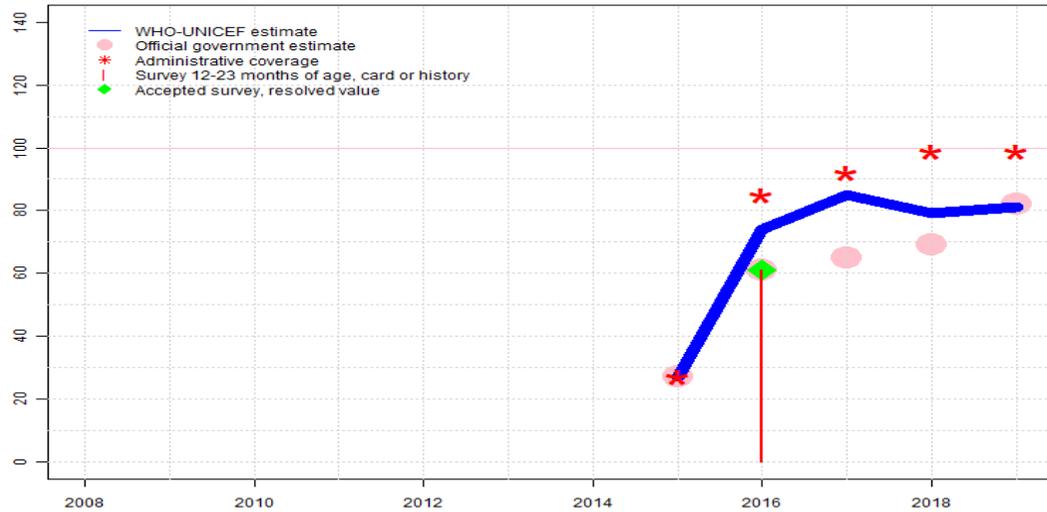
Niger - Pol3

percent, 1st dose card only coverage of 55 percent and 3rd dose card only coverage of 46 percent. Estimate challenged by: D-R-

2008: Reported data calibrated to 2007 and 2009 levels. Estimate challenged by: D-R-

Niger - IPV1

NER - 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).

2019: Estimate is based on estimated DTP3 coverage. Reported data excluded due to sudden change in coverage from 69 level to 82 percent. Programme reports subnational vaccine stock-outs for all antigens in the infant immunization series. Estimate challenged by: D-R-

2018: Estimate based on estimated DTP3 coverage. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. Estimate challenged by: D-R-S-

2017: Estimate of 85 percent assigned by working group. Estimate based on estimated DTP3 coverage. Programme reports vaccine stock-out of less than one month. Estimate challenged by: D-R-S-

2016: Estimate based on relative relationship between estimated and reported administrative DTP3 coverage applied to administrative IPV1 coverage. Estimate of 74 percent changed from previous revision value of 62 percent. Estimate challenged by: D-R-S-

2015: Estimate based on reported data. Inactivated polio vaccine introduced during 2015. GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	NA	27	74	85	79	81						
Estimate GoC	NA	•	•	•	•	•						
Official	NA	27	61	65	69	82						
Administrative	NA	27	85	92	99	99						
Survey	NA	61	NA	NA	NA							

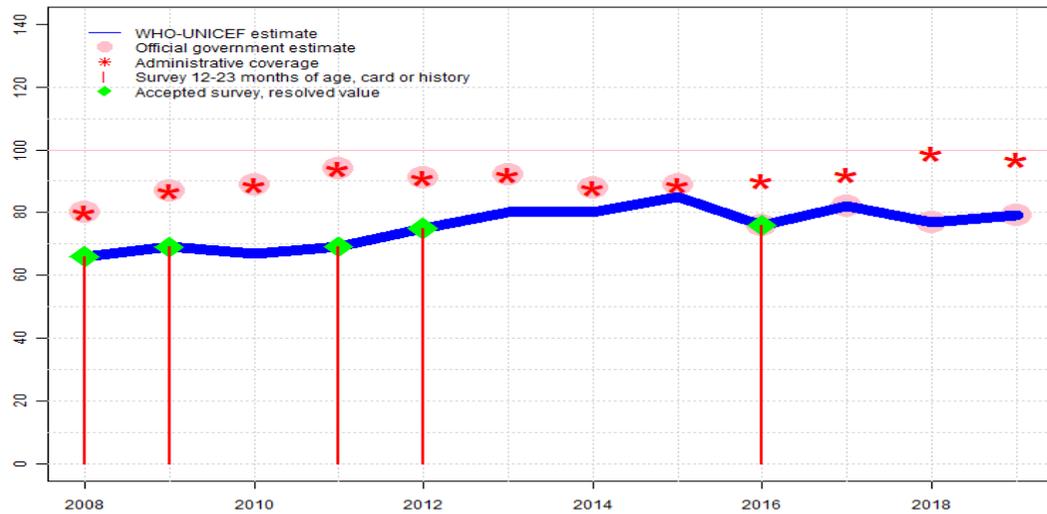
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2019 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.

Niger - MCV1

NER - MCV1



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	66	69	67	69	75	80	80	85	76	82	77	79
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	80	87	89	94	91	92	88	89	76	82	77	79
Administrative	80	87	89	94	91	92	88	89	90	92	99	97
Survey	66	69	NA	69	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: 2019 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.

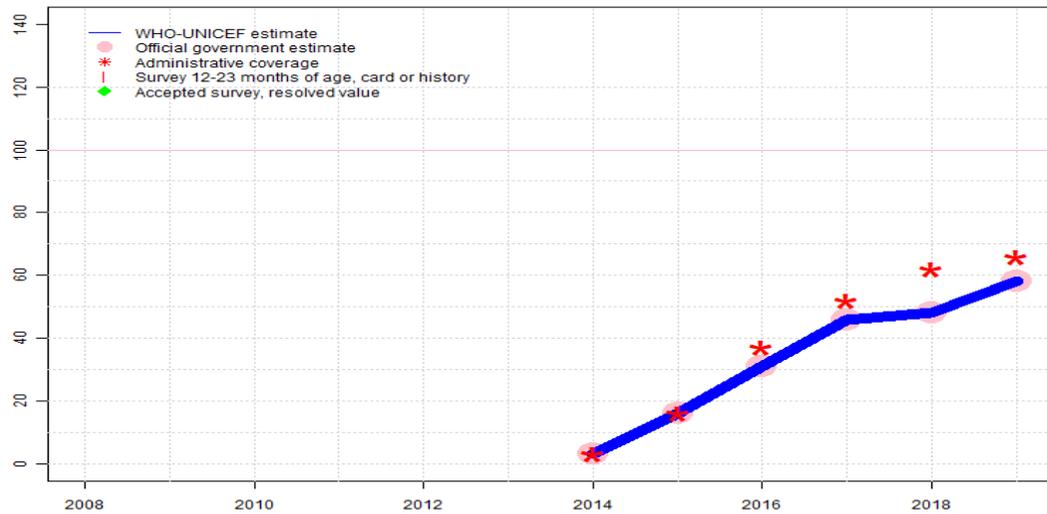
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2019: Estimate based on coverage reported by national government. Programme reports sub-national vaccine stock-outs for all antigens in the infant immunization series. Estimate challenged by: D-
- 2018: Estimate based on coverage reported by national government. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. Estimate challenged by: D-
- 2017: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2016: Estimate based on coverage reported by national government supported by survey. Survey evidence of 76 percent based on 1 survey(s). Estimate challenged by: D-
- 2015: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-S-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 75 percent based on 1 survey(s). Estimate challenged by: D-R-
- 2011: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 69 percent based on 1 survey(s). Estimate challenged by: D-R-
- 2010: Reported data calibrated to 2009 and 2011 levels. Estimate challenged by: D-R-
- 2009: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 69 percent based on 1 survey(s). Estimate challenged by: D-R-
- 2008: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 66 percent based on 1 survey(s). Estimate challenged by: D-R-

Niger - MCV2

NER - MCV2



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	NA	NA	NA	NA	NA	NA	3	16	31	46	48	58
Estimate GoC	NA	NA	NA	NA	NA	NA	•	•	•	•	•	••
Official	NA	NA	NA	NA	NA	NA	3	16	31	46	48	58
Administrative	NA	NA	NA	NA	NA	NA	3	16	37	52	62	66
Survey	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: 2019 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.

2019: Estimate based on coverage reported by national government. Programme reports sub-national vaccine stock-outs for all antigens in the infant immunization series. GoC=R+D+

2018: Estimate based on coverage reported by national government. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. GoC=Assigned by working group. GoC of 1 consistent with GoC for other estimates.

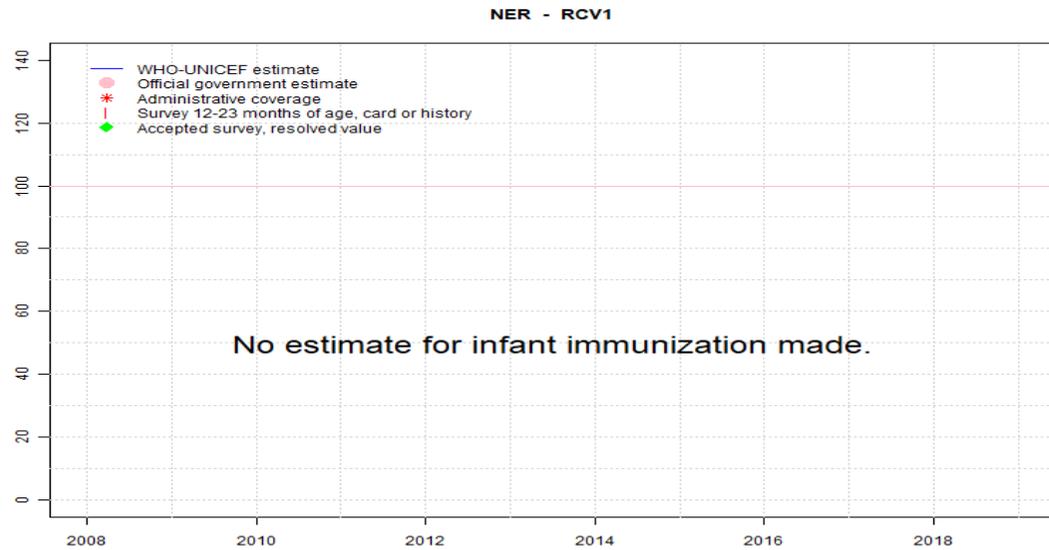
2017: Estimate based on coverage reported by national government. Increase in coverage partially due to continued national roll out. Estimate challenged by: D-

2016: Estimate based on coverage reported by national government. Increase in coverage partially due to national roll out. GoC=Assigned by working group. GoC of 1 consistent with GoC for other estimates.

2015: Estimate exceptionally based on reported data. . GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.

2014: Estimate based on reported data. Second dose of measles containing vaccine introduced during January 2014 and recommended at 16 months. GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.

Niger - RCV1



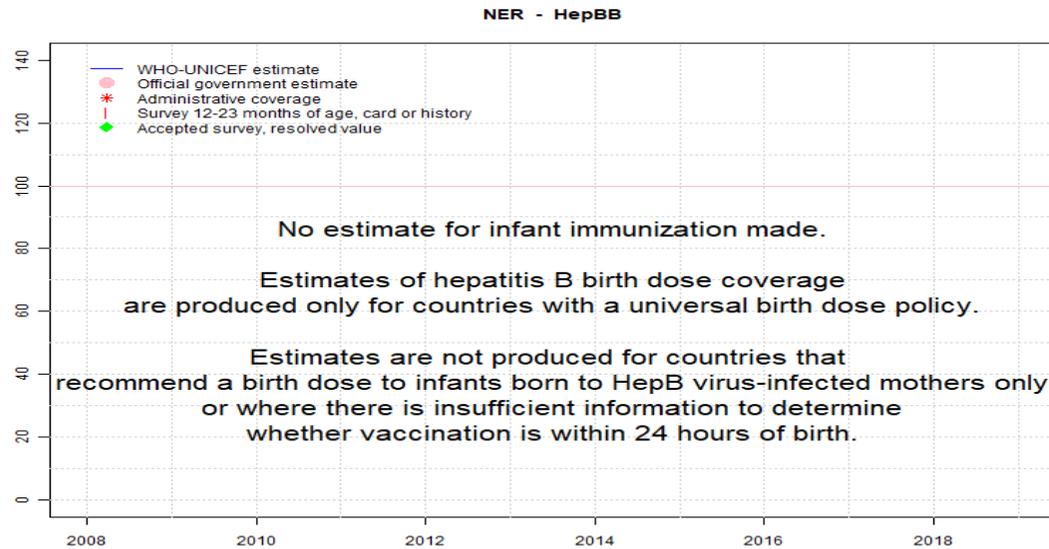
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	NA											
Estimate GoC	NA											
Official	NA											
Administrative	NA											
Survey	NA											

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: 2019 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.

Niger - HepBB



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	NA											
Estimate GoC	NA											
Official	NA											
Administrative	NA											
Survey	NA											

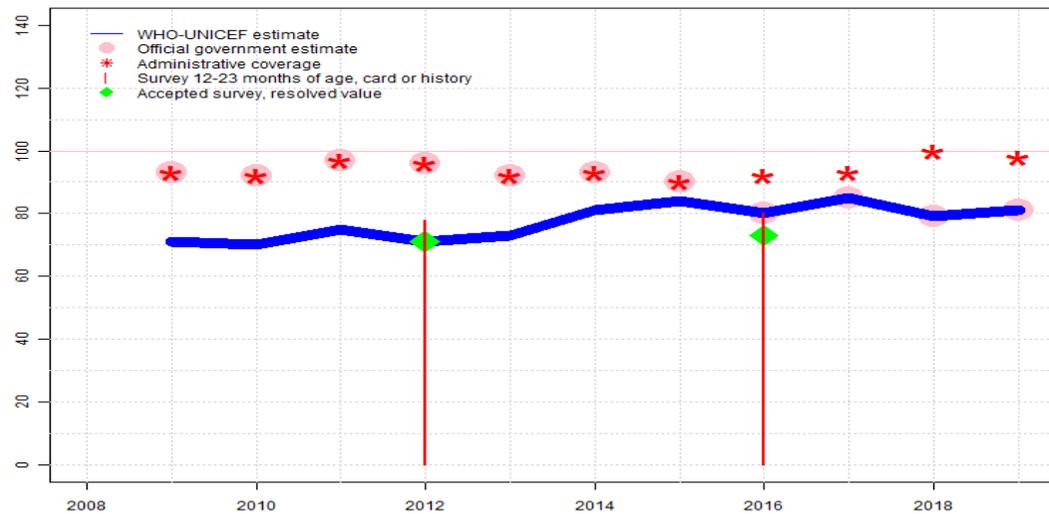
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2019 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.

Niger - HepB3

NER - HepB3



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	NA	71	70	75	71	73	81	84	80	85	79	81
Estimate GoC	NA	•	•	•	•	•	•	•	•	•	•	•
Official	NA	93	92	97	96	92	93	90	80	85	79	81
Administrative	NA	93	92	97	96	92	93	90	92	93	100	98
Survey	NA	NA	NA	NA	78	NA	NA	NA	80	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: 2019 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.

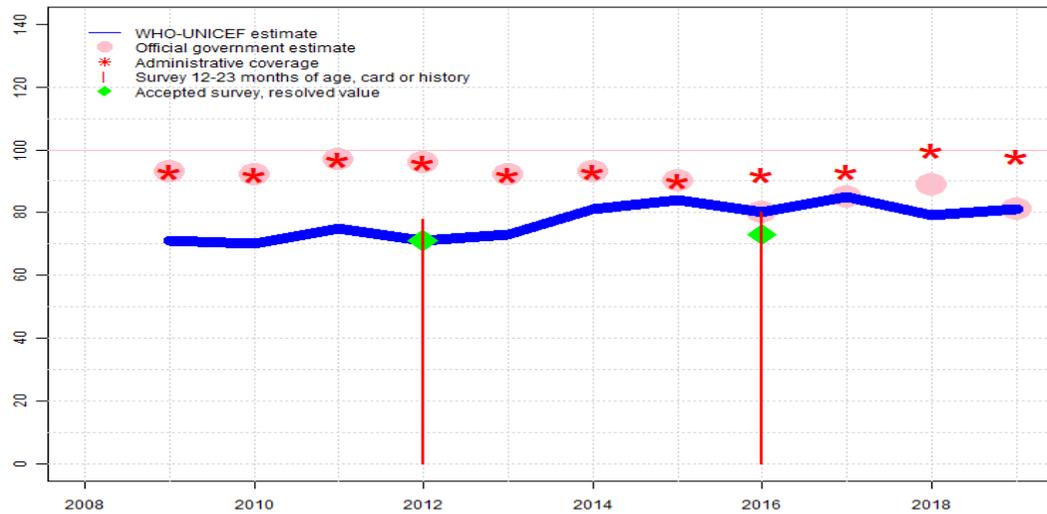
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2019: Estimate based on coverage reported by national government. Programme reports sub-national vaccine stock-outs for all antigens in the infant immunization series. Estimate challenged by: D-
- 2018: Estimate based on estimated DTP3 coverage. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. Estimate challenged by: D-R-
- 2017: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2016: Estimate based on coverage reported by national government supported by survey. Survey evidence of 73 percent based on 1 survey(s). 2017 Niger Vaccination Coverage Survey card or history results of 80 percent modified for recall bias to 73 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 68 percent and 3rd dose card only coverage of 54 percent. Estimate challenged by: D-
- 2015: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-S-
- 2014: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 71 percent based on 1 survey(s). Post measles campaign and routine immunization coverage evaluation survey, Niger, 2013 card or history results of 78 percent modified for recall bias to 71 percent based on 1st dose card or history coverage of 87 percent, 1st dose card only coverage of 44 percent and 3rd dose card only coverage of 36 percent. Estimate challenged by: D-R-
- 2011: Estimate of 75 percent assigned by working group. Estimate based on DTP3 coverage. Estimate challenged by: D-R-
- 2010: Estimate based on DTP3 coverage. Estimate challenged by: D-R-
- 2009: Estimate based on DTP3 coverage. HepB vaccine introduced in 2008. Reporting started in 2009. Vaccine presentation is DTP-HepB-Hib. Estimate challenged by: D-R-

Niger - Hib3

NER - Hib3



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	NA	71	70	75	71	73	81	84	80	85	79	81
Estimate GoC	NA	•	•	•	•	•	•	•	•	•	•	•
Official	NA	93	92	97	96	92	93	90	80	85	89	81
Administrative	NA	93	92	97	96	92	93	90	92	93	100	98
Survey	NA	NA	NA	NA	78	NA	NA	NA	80	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: 2019 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.

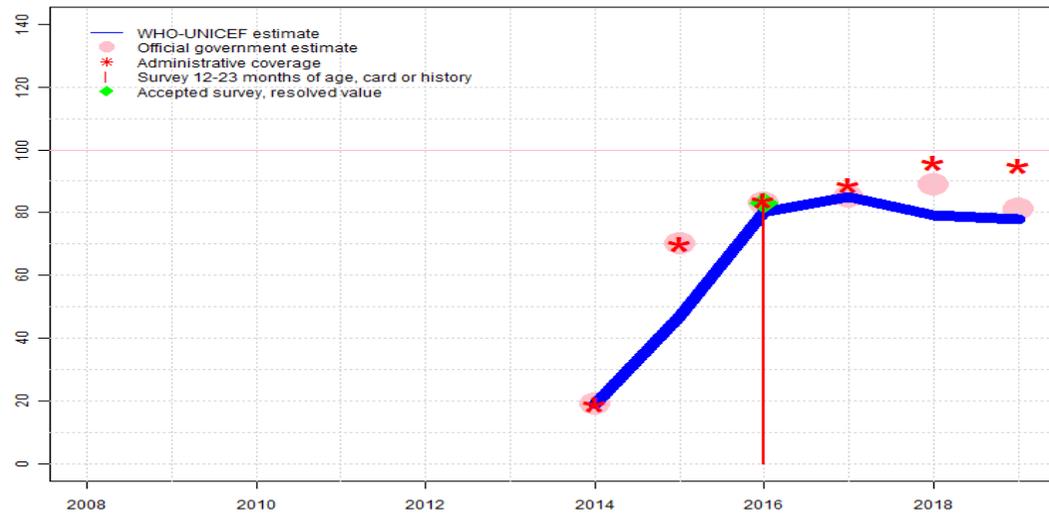
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2019: Estimate based on coverage reported by national government. Programme reports sub-national vaccine stock-outs for all antigens in the infant immunization series. Estimate challenged by: D-
- 2018: Estimate based on estimated DTP3 coverage. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. Estimate challenged by: D-R-
- 2017: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2016: Estimate based on coverage reported by national government supported by survey. Survey evidence of 73 percent based on 1 survey(s). 2017 Niger Vaccination Coverage Survey card or history results of 80 percent modified for recall bias to 73 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 68 percent and 3rd dose card only coverage of 54 percent. Estimate challenged by: D-
- 2015: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-S-
- 2014: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 71 percent based on 1 survey(s). Post measles campaign and routine immunization coverage evaluation survey, Niger, 2013 card or history results of 78 percent modified for recall bias to 71 percent based on 1st dose card or history coverage of 87 percent, 1st dose card only coverage of 44 percent and 3rd dose card only coverage of 36 percent. Estimate challenged by: D-R-
- 2011: Estimate of 75 percent assigned by working group. Estimate based on DTP3 coverage. Estimate challenged by: D-R-
- 2010: Estimate based on DTP3 coverage. Estimate challenged by: D-R-
- 2009: Estimate based on DTP3 coverage. Hib vaccine introduced in 2008. Reporting started in 2009. Vaccine presentation is DTP-HepB-Hib. Estimate challenged by: D-R-

Niger - RotaC

NER - RotaC



Description:

- 2019: Reported data calibrated to 2016 levels. Programme reports subnational vaccine stock-outs for all antigens in the infant immunization series. Estimate challenged by: D-R-
- 2018: Estimate based on estimated DTP3. This estimate may be an overestimate. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. GoC=Assigned by working group. GoC of 1 consistent with GoC for other estimates.
- 2017: Estimate based on estimated DTP3. This estimate may be an overestimate. Estimate challenged by: D-R-
- 2016: Estimate of 80 percent assigned by working group. Estimate based on estimated DTP3. This estimate may be an overestimate. Estimate challenged by: D-R-
- 2015: Estimate of 47 percent assigned by working group. Increase in coverage due to national roll out. Estimate based on relationship of administered DTP3 doses. Estimate challenged by: D-R-S-
- 2014: Rotavirus vaccine introduced during 2014. GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	NA	NA	NA	NA	NA	NA	19	47	80	85	79	78
Estimate GoC	NA	NA	NA	NA	NA	NA	●	●	●	●	●	●
Official	NA	NA	NA	NA	NA	NA	19	70	83	85	89	81
Administrative	NA	NA	NA	NA	NA	NA	19	70	84	89	96	95
Survey	NA	83	NA	NA	NA							

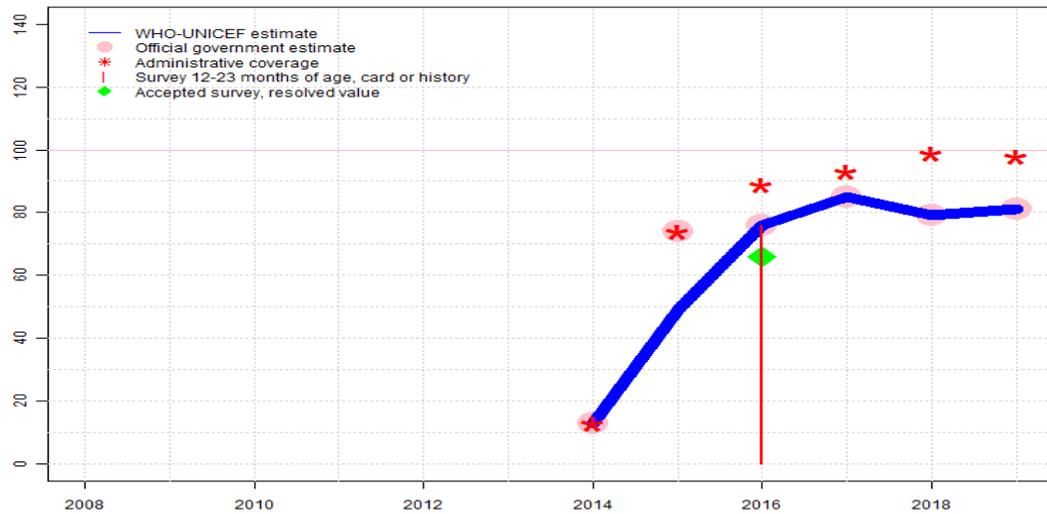
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2019 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.

Niger - PcV3

NER - PcV3



Description:

- 2019: Estimate based on coverage reported by national government. Programme reports sub-national vaccine stock-outs for all antigens in the infant immunization series. Estimate challenged by: D-
- 2018: Estimate based on coverage reported by national government. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. Estimate challenged by: D-S-
- 2017: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2016: Estimate based on coverage reported by national government supported by survey. Survey evidence of 66 percent based on 1 survey(s). 2017 Niger Vaccination Coverage Survey card or history results of 76 percent modified for recall bias to 66 percent based on 1st dose card or history coverage of 90 percent, 1st dose card only coverage of 65 percent and 3rd dose card only coverage of 48 percent. Estimate challenged by: D-
- 2015: Estimate of 49 percent assigned by working group. Estimate is based on reported coverage adjusted by the difference between estimated and reported DTP3 coverage levels. Estimate challenged by: D-R-S-
- 2014: Pneumococcal conjugate vaccine introduced during 2014. GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	NA	NA	NA	NA	NA	NA	13	49	76	85	79	81
Estimate GoC	NA	NA	NA	NA	NA	NA	•	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	13	74	76	85	79	81
Administrative	NA	NA	NA	NA	NA	NA	13	74	89	93	99	98
Survey	NA	76	NA	NA	NA							

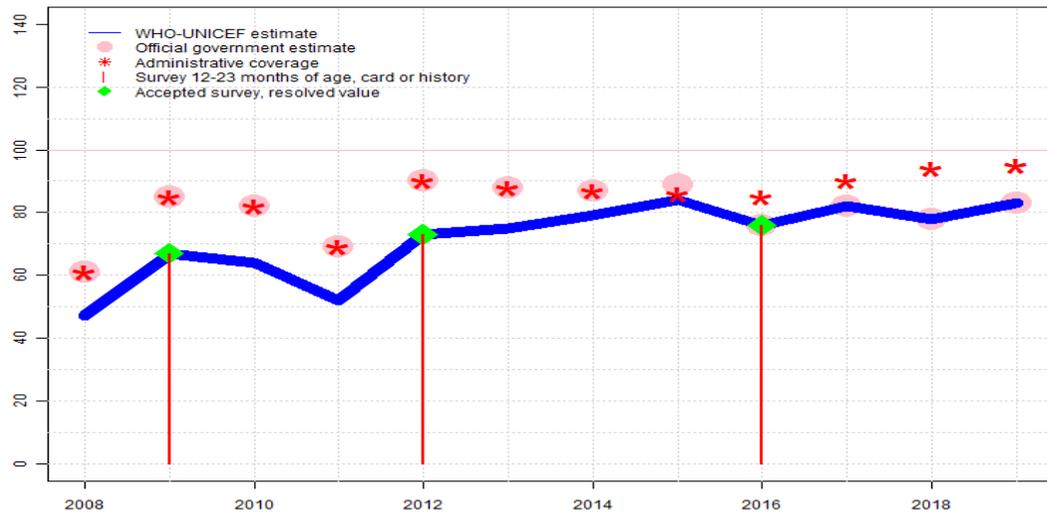
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2019 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.

Niger - YFV

NER - YFV



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Estimate	47	67	64	52	73	75	79	84	76	82	78	83
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	61	85	82	69	90	88	87	89	76	82	78	83
Administrative	61	85	82	69	90	88	87	86	85	90	94	95
Survey	NA	67	NA	NA	73	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: 2019 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. Programme reports subnational vaccine stock-outs for all antigens in the infant immunization series. Programme reports 1.2 month vaccine stock-out at national level. GoC=Assigned by working group. Consistency with other antigens.
- 2018: Estimate based on coverage reported by national government. Programme believes that the current denominator underestimates the target population. Apparent increase in the administrative coverage is an artifact of a 12 percent decrease in estimated surviving infants between 2017 and 2018. GoC=Assigned by working group. GoC of 1 consistent with GoC for other estimates.
- 2017: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2016: Estimate based on coverage reported by national government supported by survey. Survey evidence of 76 percent based on 1 survey(s). Estimate challenged by: D-
- 2015: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: R-
- 2014: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2012 and 2016 levels. Estimate challenged by: D-R-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 73 percent based on 1 survey(s). Rise in coverage reflects recovery from vaccine shortage. Estimate challenged by: D-R-
- 2011: Reported data calibrated to 2009 and 2012 levels. Decline in coverage reflects a vaccine stock-out in 10 districts. Estimate challenged by: D-R-S-
- 2010: Reported data calibrated to 2009 and 2012 levels. Estimate challenged by: D-R-
- 2009: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 67 percent based on 1 survey(s). Estimate challenged by: D-R-
- 2008: Estimate of 47 percent assigned by working group. Estimate follows nationally reported data calibrated based on the 2008 MCV survey result. Estimate challenged by: D-R-S-

Niger - survey details

2016 Evaluation de la couverture vaccinale de routine, Niger 2017

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	69.7	12-23 m	11849	74
BCG	Card or History	91.4	12-23 m	11849	74
DTP1	Card	68	12-23 m	11849	74
DTP1	Card or History	92.1	12-23 m	11849	74
DTP3	Card	54.3	12-23 m	11849	74
DTP3	Card or History	80.2	12-23 m	11849	74
HepB1	Card	68	12-23 m	11849	74
HepB1	Card or History	92.1	12-23 m	11849	74
HepB3	Card	54.3	12-23 m	11849	74
HepB3	Card or History	80.2	12-23 m	11849	74
Hib1	Card	68	12-23 m	11849	74
Hib1	Card or History	92.1	12-23 m	11849	74
Hib3	Card	54.3	12-23 m	11849	74
Hib3	Card or History	80.2	12-23 m	11849	74
IPV1	Card	29.1	12-23 m	11849	74
IPV1	Card or History	60.8	12-23 m	11849	74
MCV1	Card	51.8	12-23 m	11849	74
MCV1	Card or History	76.1	12-23 m	11849	74
PcV1	Card	64.7	12-23 m	11849	74
PCV1	Card or History	90.4	12-23 m	11849	74
PCV3	Card	48.5	12-23 m	11849	74
PCV3	Card or History	76	12-23 m	11849	74
Pol1	Card	66.1	12-23 m	11849	74
Pol1	Card or History	92	12-23 m	11579	74
Pol3	Card	55.4	12-23 m	11579	74
Pol3	Card or History	82.3	12-23 m	11579	74
RotaC	Card	55.4	12-23 m	11579	74
RotaC	Card or History	83.4	12-23 m	11579	74
YFV	Card	51.7	12-23 m	11579	74
YFV	Card or History	76	12-23 m	11579	74

2012 Evaluation couverture vaccinale post campagne rougeole et routine. Niger 2013

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
---------	---------------------	----------	------------	--------	------------

BCG	Card	42.5	12-23 m	-	70
BCG	Card or History	85.2	12-23 m	18326	70
DTP1	Card	44.4	12-23 m	-	70
DTP1	Card or History	87.3	12-23 m	18326	70
DTP3	Card	36.5	12-23 m	-	70
DTP3	Card or History	77.8	12-23 m	18326	70
HepB1	Card	44.4	12-23 m	-	70
HepB1	Card or History	87.3	12-23 m	18326	70
HepB3	Card	36.5	12-23 m	-	70
HepB3	Card or History	77.8	12-23 m	18326	70
Hib1	Card	44.4	12-23 m	-	70
Hib1	Card or History	87.3	12-23 m	18326	70
Hib3	Card	36.5	12-23 m	-	70
Hib3	Card or History	77.8	12-23 m	18326	70
MCV1	Card	34.9	12-23 m	-	70
MCV1	Card or History	74.7	12-23 m	18326	70
Pol1	Card	38.2	12-23 m	-	70
Pol1	Card or History	85.7	12-23 m	18326	70
Pol3	Card	15.3	12-23 m	-	70
Pol3	Card or History	74.5	12-23 m	18326	70
YFV	Card	34	12-23 m	-	70
YFV	Card or History	72.9	12-23 m	18326	70

2011 Enquête Démographique et de Santé et à Indicateurs Multiples du Niger EDSN-MICS-IV 2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	82.6	12-23 m	2275	65
BCG	Card	60.6	12-23 m	1479	65
BCG	Card or History	84	12-23 m	2275	65
BCG	History	23.4	12-23 m	796	65
DTP1	C or H <12 months	84.4	12-23 m	2275	65
DTP1	Card	62.8	12-23 m	1479	65
DTP1	Card or History	86.2	12-23 m	2275	65
DTP1	History	23.3	12-23 m	796	65
DTP3	C or H <12 months	64.8	12-23 m	2275	65
DTP3	Card	54.8	12-23 m	1479	65
DTP3	Card or History	68.1	12-23 m	2275	65
DTP3	History	13.3	12-23 m	796	65

Niger - survey details

MCV1	C or H <12 months	57.5	12-23 m	2275	65
MCV1	Card	49.6	12-23 m	1479	65
MCV1	Card or History	68.7	12-23 m	2275	65
MCV1	History	19.1	12-23 m	796	65
Pol1	C or H <12 months	90.8	12-23 m	2275	65
Pol1	Card	63.1	12-23 m	1479	65
Pol1	Card or History	92.7	12-23 m	2275	65
Pol1	History	29.6	12-23 m	796	65
Pol3	C or H <12 months	71.1	12-23 m	2275	65
Pol3	Card	55.3	12-23 m	1479	65
Pol3	Card or History	74.7	12-23 m	2275	65
Pol3	History	19.4	12-23 m	796	65

2010 Enquête Démographique et de Santé et à Indicateurs Multiples du Niger EDSN-MICS-IV 2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	78.8	24-35 m	2447	65
DTP1	C or H <12 months	79.7	24-35 m	2447	65
DTP3	C or H <12 months	59.9	24-35 m	2447	65
MCV1	C or H <12 months	52.8	24-35 m	2447	65
Pol1	C or H <12 months	88.3	24-35 m	2447	65
Pol3	C or H <12 months	67.9	24-35 m	2447	65

2009 Enquête Démographique et de Santé et à Indicateurs Multiples du Niger EDSN-MICS-IV 2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	76.5	36-47 m	2615	65
DTP1	C or H <12 months	76.1	36-47 m	2615	65
DTP3	C or H <12 months	55.1	36-47 m	2615	65
MCV1	C or H <12 months	52.8	36-47 m	2615	65
Pol1	C or H <12 months	86	36-47 m	2615	65
Pol3	C or H <12 months	62.1	36-47 m	2615	65

2009 Enquête Survie des Enfants des enfants de 0 à 59 mois et Mortalité, Niger, 2010, Rapport provisoire du Volet Survie

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	57.3	12-23 m	5609	-
BCG	Card or History	86	12-23 m	5609	-
BCG	History	28.7	12-23 m	5609	-
BCG	Scar	78.7	12-23 m	5609	-
DTP1	Card	53.6	12-23 m	5609	-
DTP1	Card or History	80.6	12-23 m	5609	-
DTP1	History	27	12-23 m	5609	-
DTP3	Card	47	12-23 m	5609	-
DTP3	Card or History	69.3	12-23 m	5609	-
DTP3	History	22.3	12-23 m	5609	-
MCV1	Card	45	12-23 m	5609	-
MCV1	Card or History	68.6	12-23 m	5609	-
MCV1	History	23.6	12-23 m	5609	-
Pol1	Card	55.2	12-23 m	5609	-
Pol1	Card or History	85.2	12-23 m	5609	-
Pol1	History	30	12-23 m	5609	-
Pol3	Card	46.2	12-23 m	5609	-
Pol3	Card or History	73.3	12-23 m	5609	-
Pol3	History	27.1	12-23 m	5609	-
YFV	Card	43.7	12-23 m	5609	-
YFV	Card or History	66.7	12-23 m	5609	-
YFV	History	23	12-23 m	5609	-

2008 Enquête Démographique et de Santé et à Indicateurs Multiples du Niger EDSN-MICS-IV 2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	78.8	48-59 m	2138	65
DTP1	C or H <12 months	77.2	48-59 m	2138	65
DTP3	C or H <12 months	58.2	48-59 m	2138	65
MCV1	C or H <12 months	53.8	48-59 m	2138	65
Pol1	C or H <12 months	85.4	48-59 m	2138	65
Pol3	C or H <12 months	63.8	48-59 m	2138	65

2008 Enquête Nationale Nutrition et Survie de l'Enfant Niger, mai/juin 2009

Niger - survey details

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	48.7	12-23 m	4835	49
BCG	Card or History	80.5	12-23 m	4835	49
BCG	History	31.8	12-23 m	4835	49
BCG	Scar	58.8	12-23 m	4835	49
DTP1	Card	47.7	12-23 m	4835	49
DTP1	Card or History	75.7	12-23 m	4835	49
DTP1	History	28	12-23 m	4835	49
DTP3	Card	41.5	12-23 m	4835	49
DTP3	Card or History	64.7	12-23 m	4835	49
DTP3	History	23.2	12-23 m	4835	49
MCV1	Card	39	12-23 m	4835	49
MCV1	Card or History	65.5	12-23 m	4835	49
MCV1	History	26.5	12-23 m	4835	49

2007 Enquête nationale, Nutrition et Survie de l'Enfant, Niger, juin/juillet 2008

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
DTP1	Card	43.9	12-23 m	885	-
DTP1	Card or History	68.5	12-23 m	885	-
DTP1	History	24.6	12-23 m	885	-
DTP3	Card	37.1	12-23 m	885	-
DTP3	Card or History	54.7	12-23 m	885	-
DTP3	History	17.6	12-23 m	885	-
MCV1	Card	37.6	12-23 m	885	-
MCV1	Card or History	65.6	12-23 m	885	-
MCV1	History	28	12-23 m	885	-

2005 L'Enquête Démographique et de Santé et à Indicateurs Multiples de Niger, 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	60.6	12-23 m	1782	43
BCG	Card	41.3	12-23 m	1782	43
BCG	Card or History	63.6	12-23 m	1782	43

BCG	History	22.4	12-23 m	1782	43
DTP1	C or H <12 months	56.2	12-23 m	1782	43
DTP1	Card	40.9	12-23 m	1782	43
DTP1	Card or History	58.4	12-23 m	1782	43
DTP1	History	17.4	12-23 m	1782	43
DTP3	C or H <12 months	34.7	12-23 m	1782	43
DTP3	Card	32.4	12-23 m	1782	43
DTP3	Card or History	39.3	12-23 m	1782	43
DTP3	History	6.8	12-23 m	1782	43
MCV1	C or H <12 months	38.3	12-23 m	1782	43
MCV1	Card	32.4	12-23 m	1782	43
MCV1	Card or History	47	12-23 m	1782	43
MCV1	History	14.6	12-23 m	1782	43
Pol1	C or H <12 months	76	12-23 m	1782	43
Pol1	Card	41.9	12-23 m	1782	43
Pol1	Card or History	79.6	12-23 m	1782	43
Pol1	History	37.7	12-23 m	1782	43
Pol3	C or H <12 months	48.7	12-23 m	1782	43
Pol3	Card	32.6	12-23 m	1782	43
Pol3	Card or History	54.6	12-23 m	1782	43
Pol3	History	22	12-23 m	1782	43
YFV	C or H <12 months	29.9	12-23 m	1782	43
YFV	Card	27.1	12-23 m	1782	43
YFV	Card or History	36.9	12-23 m	1782	43
YFV	History	9.8	12-23 m	1782	43

2000 Niger, Revue du PEV 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	54	12-23 m	212	56
DTP1	Card	48	12-23 m	212	56
DTP3	Card	31	12-23 m	212	56
MCV1	Card	34	12-23 m	212	56
Pol1	Card	48	12-23 m	212	56
Pol3	Card	31	12-23 m	212	56

1999 République du Niger, Enquête à Indicateurs Multiples de la Fin de la Decennie (MICS2), 2000

Niger - survey details

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen	Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	44.4	12-23 m	915	36	BCG	C or H <12 months	45.7	12-23 m	1431	35
BCG	Card	34.6	12-23 m	915	36	BCG	Card	32.7	12-23 m	1431	35
BCG	Card or History	46.8	12-23 m	915	36	BCG	Card or History	47.3	12-23 m	1431	35
BCG	History	12.2	12-23 m	915	36	BCG	History	14.5	12-23 m	1431	35
DTP1	C or H <12 months	41	12-23 m	915	36	DTP1	C or H <12 months	43	12-23 m	1431	35
DTP1	Card	33	12-23 m	915	36	DTP1	Card	32.8	12-23 m	1431	35
DTP1	Card or History	43.2	12-23 m	915	36	DTP1	Card or History	45.2	12-23 m	1431	35
DTP1	History	10.2	12-23 m	915	36	DTP1	History	12.4	12-23 m	1431	35
DTP3	C or H <12 months	24.8	12-23 m	915	36	DTP3	C or H <12 months	22.2	12-23 m	1431	35
DTP3	Card	24.2	12-23 m	915	36	DTP3	Card	23.3	12-23 m	1431	35
DTP3	Card or History	28.1	12-23 m	915	36	DTP3	Card or History	25	12-23 m	1431	35
DTP3	History	3.9	12-23 m	915	36	DTP3	History	1.7	12-23 m	1431	35
MCV1	C or H <12 months	25	12-23 m	915	36	MCV1	C or H <12 months	26.7	12-23 m	1431	35
MCV1	Card	23.5	12-23 m	915	36	MCV1	Card	23.7	12-23 m	1431	35
MCV1	Card or History	35.5	12-23 m	915	36	MCV1	Card or History	34.9	12-23 m	1431	35
MCV1	History	12	12-23 m	915	36	MCV1	History	11.2	12-23 m	1431	35
Pol1	C or H <12 months	50.3	12-23 m	915	36	Pol1	C or H <12 months	49.3	12-23 m	1431	35
Pol1	Card	32	12-23 m	915	36	Pol1	Card	32.2	12-23 m	1431	35
Pol1	Card or History	52.8	12-23 m	915	36	Pol1	Card or History	52	12-23 m	1431	35
Pol1	History	20.8	12-23 m	915	36	Pol1	History	19.8	12-23 m	1431	35
Pol3	C or H <12 months	35.7	12-23 m	915	36	Pol3	C or H <12 months	21.3	12-23 m	1431	35
Pol3	Card	24	12-23 m	915	36	Pol3	Card	22.8	12-23 m	1431	35
Pol3	Card or History	40.5	12-23 m	915	36	Pol3	Card or History	24	12-23 m	1431	35
Pol3	History	16.5	12-23 m	915	36	Pol3	History	1.2	12-23 m	1431	35
						YFV	C or H <12 months	5	12-23 m	1431	35
						YFV	Card	3.6	12-23 m	1431	35
						YFV	Card or History	8.5	12-23 m	1431	35
						YFV	History	4.9	12-23 m	1431	35

1997 Enquête Démographique et de Santé Niger 1998, 1999

Further information and estimates for previous years are available at:

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

http://www.who.int/immunization/monitoring_surveillance/routine/coverage/en/index4.html