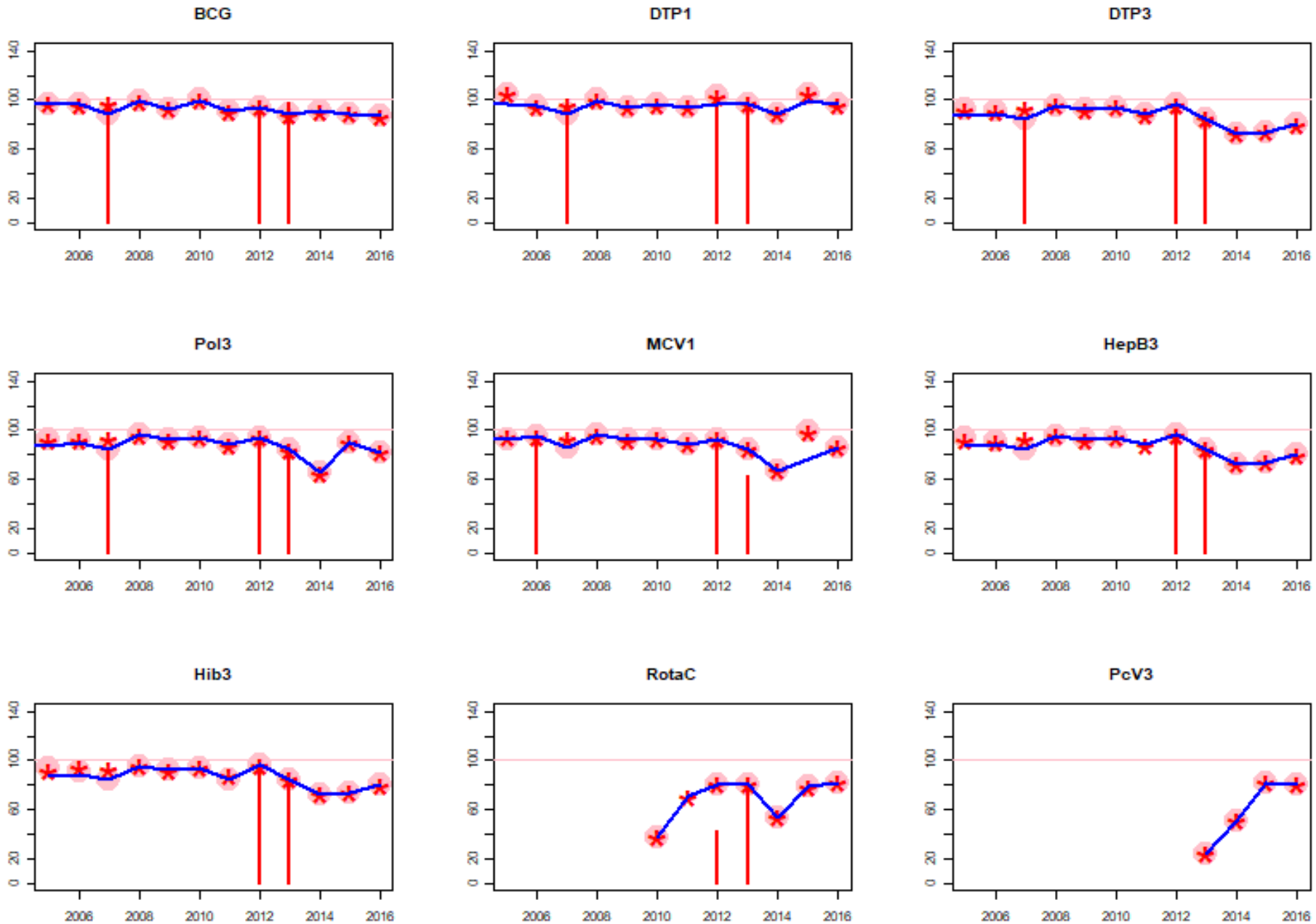


Guatemala: WHO and UNICEF estimates of immunization coverage: 2016 revision



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.

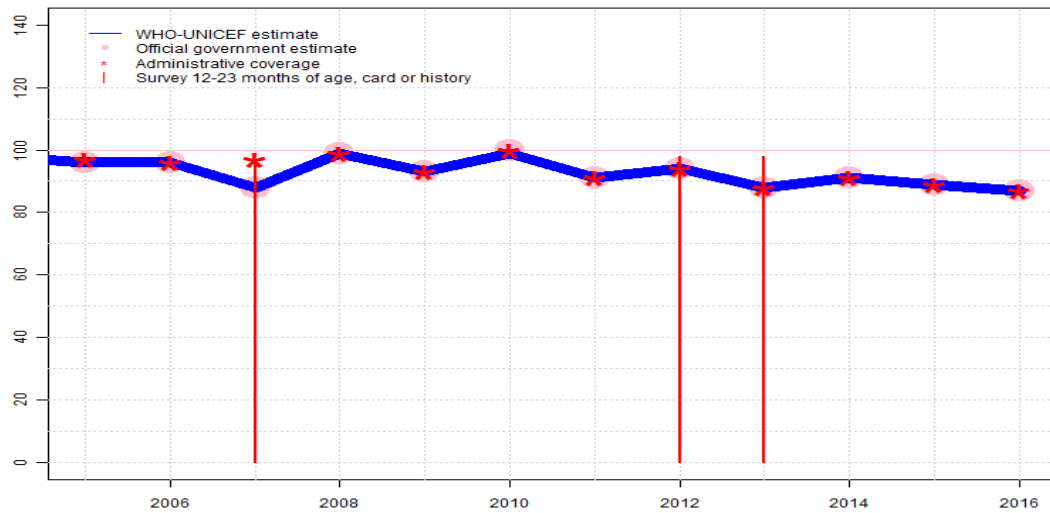
PcV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect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

GTM - BCG



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	96	96	88	99	93	99	91	94	88	91	89	87
Estimate GoC	•	•	•	•	•	•	•	•	•••	•	•	•
Official	96	96	88	99	93	100	91	94	88	91	89	87
Administrative	97	96	97	99	93	100	91	94	88	91	89	87
Survey	NA	NA	97	NA	NA	NA	NA	98	98	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: 2015 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.

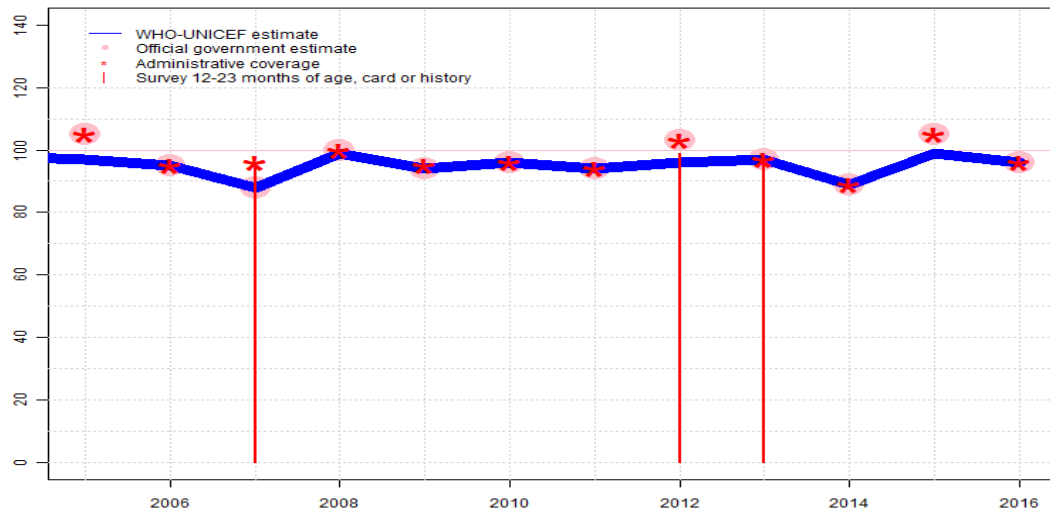
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2015: Estimate based on coverage reported by national government. Programme reports one month stock-out. Reported data are provisional. Estimate challenged by: D-
- 2014: Estimate based on coverage reported by national government. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Programme reports five month stock-out of BCG vaccine at national level. Estimate is based on reported data. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). GoC=R+ S+ D+
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Decline in coverage is consistent with patterns in coverage for other antigens. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-

Guatemala - DTP1

GTM - DTP1



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	97	95	88	99	94	96	94	96	97	89	99	96
Estimate GoC	●●●	●	●●●	●	●●●	●	●	●●●	●●●	●●●	●	●
Official	105	95	88	100	94	96	94	103	97	89	105	96
Administrative	105	95	96	100	95	96	94	103	97	89	105	96
Survey	NA	NA	96	NA	NA	NA	NA	99	98	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: 2015 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.

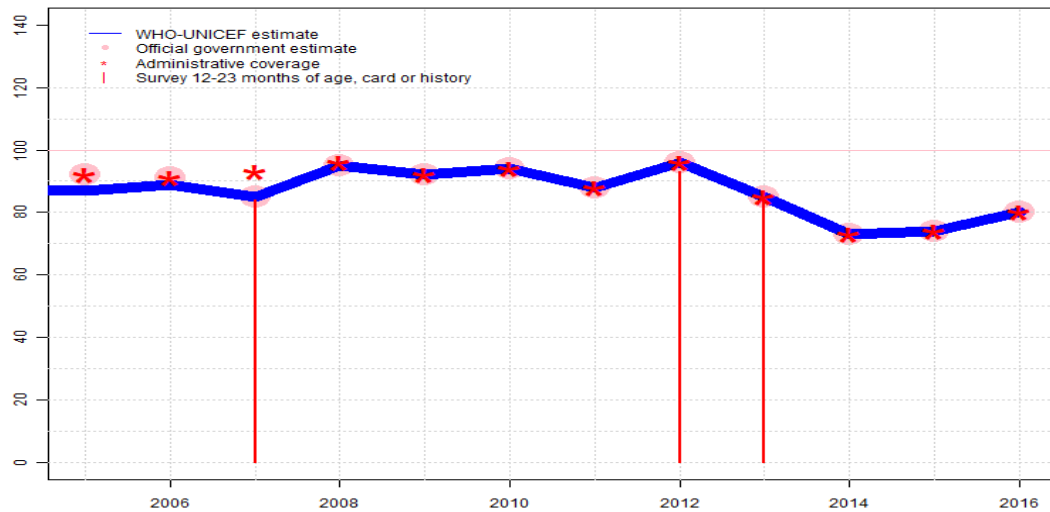
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2015: Estimate based on coverage reported by national government. Programme reports two month stock-out. Reported data are provisional and suggest recovery from the stock-out during 2014. Estimate challenged by: D-
- 2014: Estimate based on coverage reported by national government. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Programme reports nine month stock-out of DTP containing vaccine at national level. Estimate is based on reported data. GoC=R+ S+ D+
- 2013: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). GoC=R+ S+ D+
- 2012: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 99 percent based on 1 survey(s). Reported data excluded because 103 percent greater than 100 percent. GoC=R+ S+ D+
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2005: Estimate based on interpolation between coverage reported by national government. Reported data excluded because 105 percent greater than 100 percent. GoC=R+ S+ D+

Guatemala - DTP3

GTM - DTP3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	87	89	85	95	92	94	88	96	85	73	74	80
Estimate GoC	•	•	•••	•	•	•	•	•	•••	•	•	••
Official	92	91	85	95	92	94	88	96	85	73	74	80
Administrative	92	91	93	96	92	94	88	96	85	73	74	80
Survey	NA	NA	84	NA	NA	NA	NA	93	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: 2015 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.

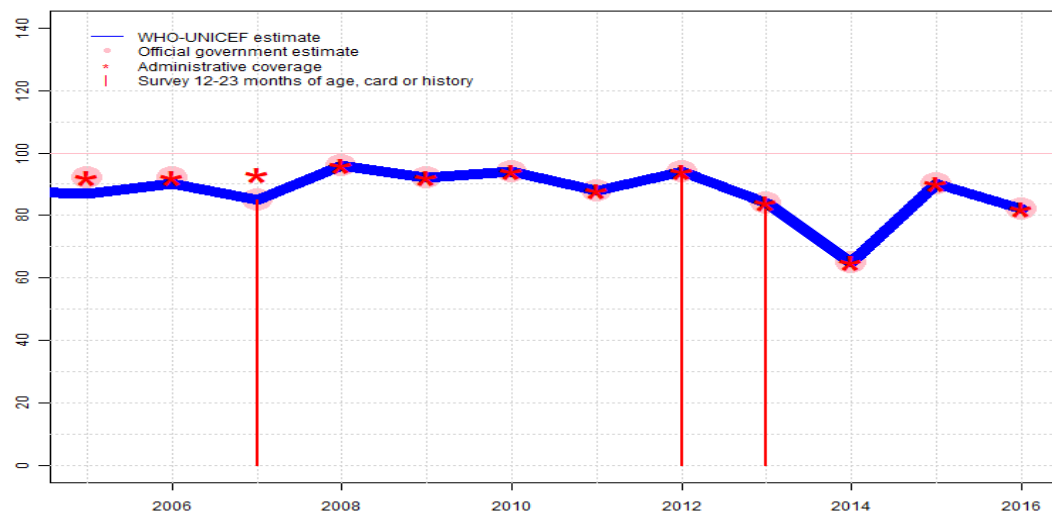
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Programme reports two month stock-out. Reported data are provisional. Estimate challenged by: S-
- 2014: Estimate based on coverage reported by national government. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Programme reports nine month stock-out of DTP containing vaccine at national level. Estimate is based on reported data. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government supported by survey. Survey evidence of 86 percent based on 1 survey(s). Guatemala Demographic and Health Survey 2014-2015 card or history results of 85 percent modified for recall bias to 86 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 90 percent and 3d dose card only coverage of 79 percent. Estimate is based on reported data. GoC=R+ S+ D+
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 95 percent based on 1 survey(s). Guatemala Demographic and Health Survey 2014-2015 card or history results of 93 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 89 percent and 3d dose card only coverage of 85 percent. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2007: Estimate based on coverage reported by national government supported by survey. Survey evidence of 84 percent based on 1 survey(s). GoC=R+ S+ D+
- 2006: Reported data calibrated to 2001 and 2007 levels. Estimate challenged by: D-R-
- 2005: Reported data calibrated to 2001 and 2007 levels. Estimate challenged by: R-

Guatemala - Pol3

GTM - Pol3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	87	90	85	96	92	94	88	94	84	65	90	82
Estimate GoC	●	●	●●●	●	●	●	●●●	●	●	●	●	●●
Official	92	92	85	96	92	94	88	94	84	65	90	82
Administrative	92	92	93	96	92	94	88	94	84	65	90	82
Survey	NA	NA	85	NA	NA	NA	NA	93	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: 2015 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.

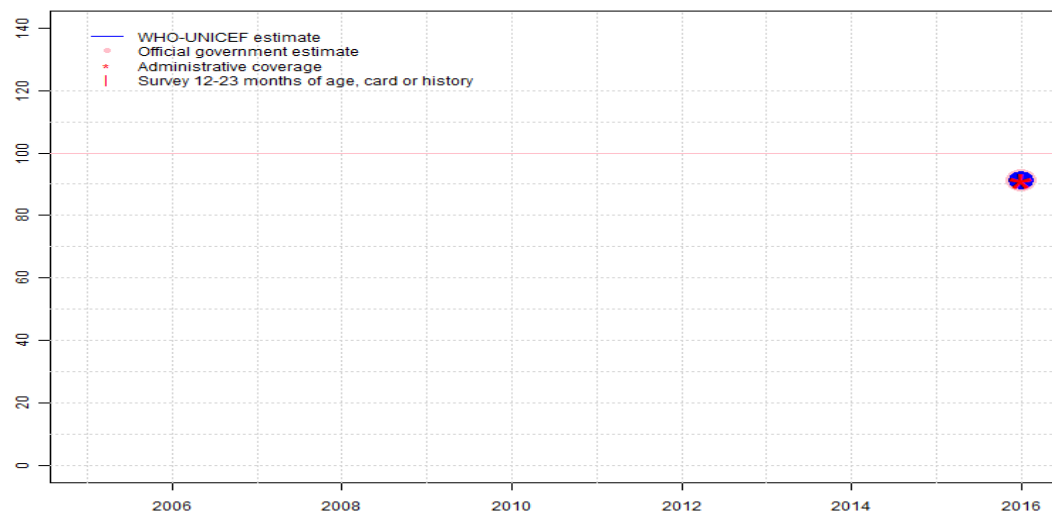
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Programme recovered from prior year stock-out. Reported data are provisional. Estimate challenged by: D-
- 2014: Estimate based on coverage reported by national government. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Programme reports six month stock-out of polio vaccine at national level. Estimate is based on reported data. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government supported by survey. Survey evidence of 83 percent based on 1 survey(s). Guatemala Demographic and Health Survey 2014-2015 card or history results of 82 percent modified for recall bias to 83 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 90 percent and 3d dose card only coverage of 76 percent. Estimate challenged by: S-
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 95 percent based on 1 survey(s). Guatemala Demographic and Health Survey 2014-2015 card or history results of 93 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 89 percent and 3d dose card only coverage of 85 percent. Estimate challenged by: D-S-
- 2011: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2007: Estimate based on coverage reported by national government supported by survey. Survey evidence of 85 percent based on 1 survey(s). GoC=R+ S+ D+
- 2006: Reported data calibrated to 2001 and 2007 levels. Estimate challenged by: D-R-
- 2005: Reported data calibrated to 2001 and 2007 levels. Estimate challenged by: R-

Guatemala - IPV1

GTM - IPV1



Description:

2016: Estimate based on coverage reported by national government. Inactivated polio vaccine introduced in January 2016. GoC=R+ D+

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	●●
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

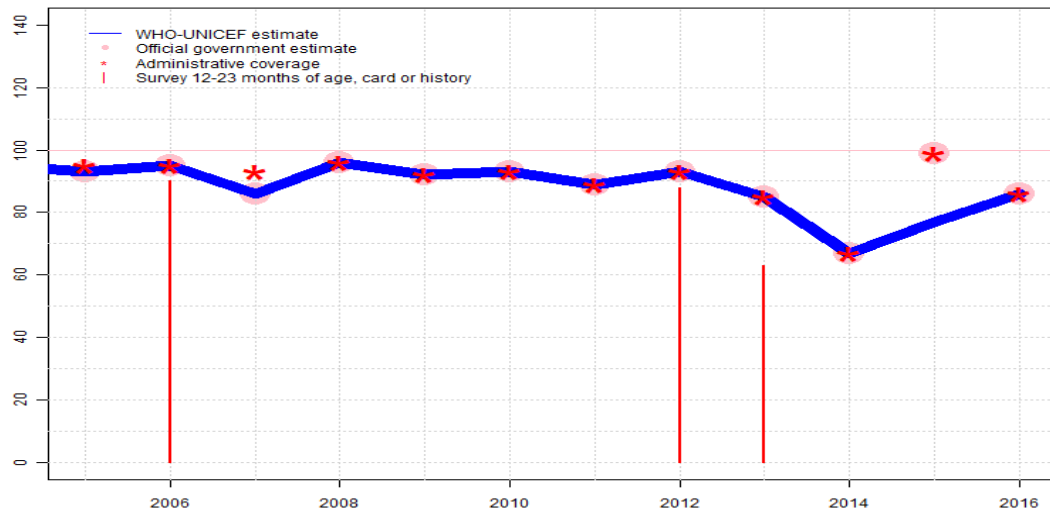
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2015 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.

Guatemala - MCV1

GTM - MCV1



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	93	95	86	96	92	93	89	93	85	67	77	86
Estimate GoC	•	•	•••	•	•	•	•••	•	•••	•	•	••
Official	93	95	86	96	92	93	89	93	85	67	99	86
Administrative	95	95	93	96	92	93	89	93	85	67	99	86
Survey	NA	90	NA	NA	NA	NA	NA	88	63	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: 2015 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.

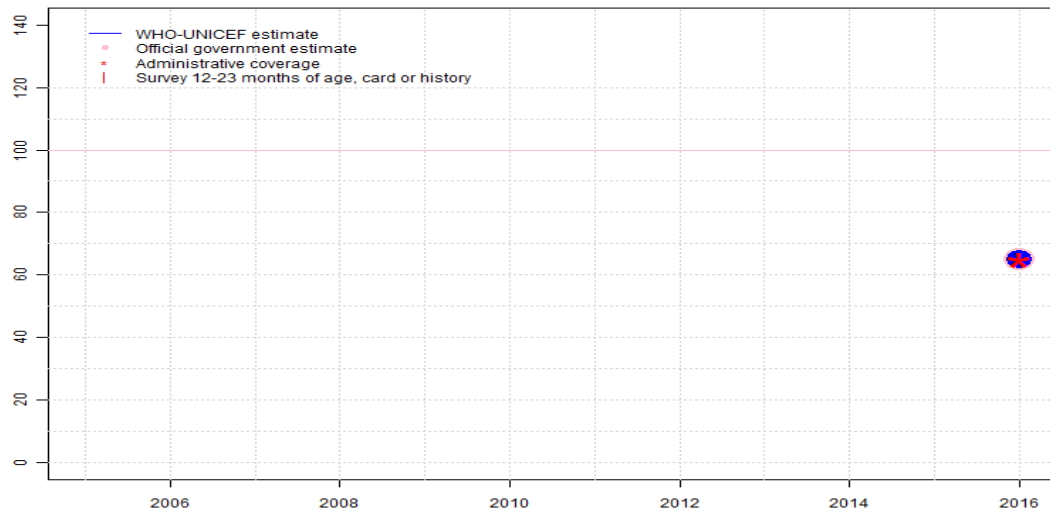
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on coverage reported by national government. . GoC=R+ D+
- 2015: Estimate based on interpolation between data reported by national government. Reported data excluded. Reported data suggests increase in coverage following supply disruptions in 2014 despite report of two month national level stock-out during 2015. Reported coverage likely reflect doses delivered to children beyond the target age range. Reported data excluded due to an unexplained increase from 67 percent to 99 percent with decrease 86 percent. Estimate of 77 percent changed from previous revision value of 99 percent. Estimate challenged by: D-
- 2014: Estimate based on coverage reported by national government. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Programme reports seven month stock-out of measles containing vaccine at national level. Estimate is based on reported data. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government. Guatemala Demographic and Health Survey 2014-2015 results ignored by working group. Survey results likely underestimate actual coverage given survey cohort and recommended age at vaccination for MCV1. GoC=R+ S+ D+
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 88 percent based on 1 survey(s). Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. Survey result of 90 percent for age group 24-35 m supports reported data GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government supported by survey. Survey evidence of 90 percent based on 1 survey(s). Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-

Guatemala - MCV2

GTM - MCV2



Description:

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

2016: Estimate based on coverage reported by national government. Second dose of measles containing vaccine introduced in January 2016. GoC=R+ D+

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	65
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	●●
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	65
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	65
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

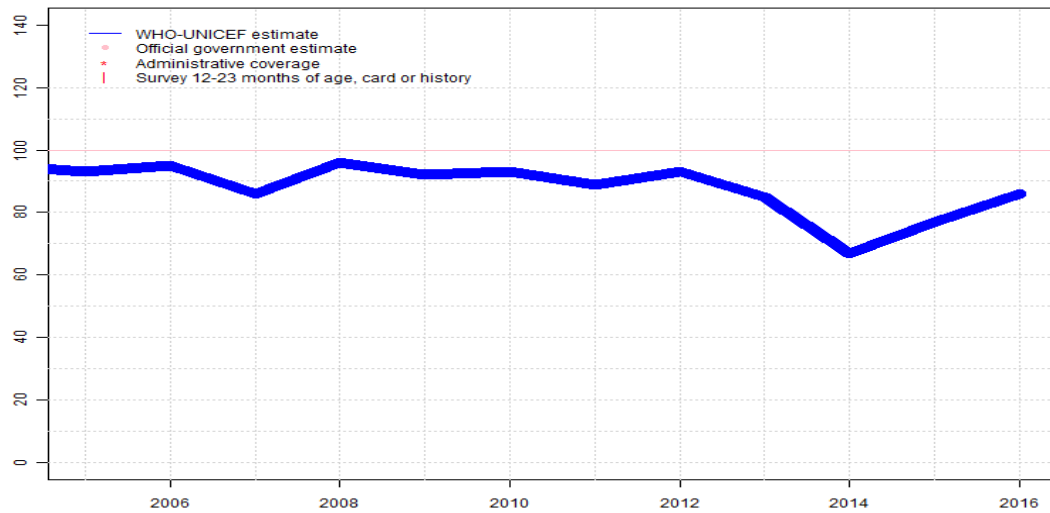
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2015 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.

Guatemala - RCV1

GTM - RCV1



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	93	95	86	96	92	93	89	93	85	67	77	86
Estimate GoC	•	•	•••	•	•	•	•••	•	•••	•	•	••
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: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

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

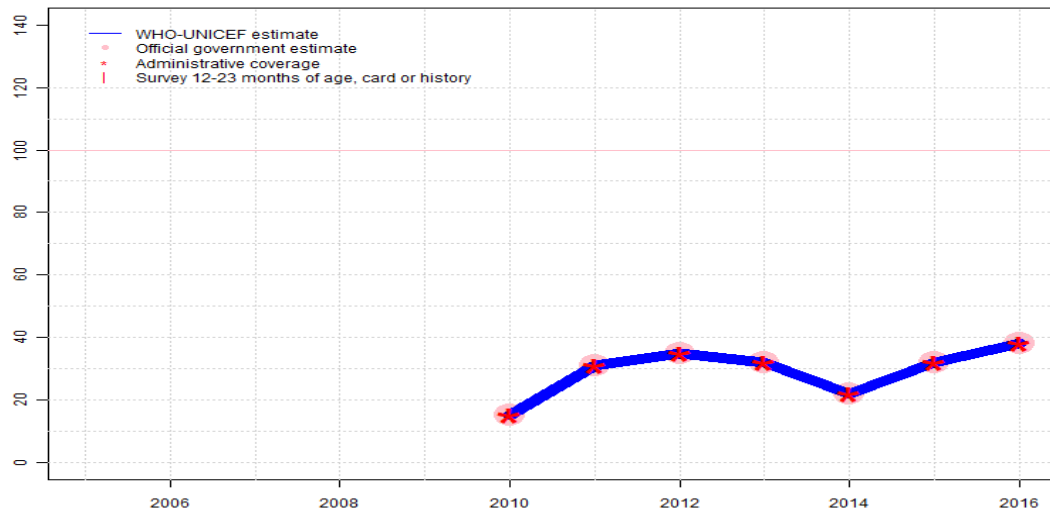
Description:

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

- 2016: Estimate based on estimated MCV1. GoC=R+ D+
- 2015: Estimate based on estimated MCV1. Estimate of 77 percent changed from previous revision value of 99 percent. Estimate challenged by: D-
- 2014: Estimate based on estimated MCV1. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Estimate is based on reported data. Estimate challenged by: S-
- 2013: Estimate based on estimated MCV1. GoC=R+ S+ D+
- 2012: Estimate based on estimated MCV1. Estimate challenged by: D-
- 2011: Estimate based on estimated MCV1. GoC=R+ S+ D+
- 2010: Estimate based on estimated MCV1. Estimate challenged by: D-
- 2009: Estimate based on estimated MCV1. Estimate challenged by: D-
- 2008: Estimate based on estimated MCV1. Estimate challenged by: D-
- 2007: Estimate based on estimated MCV1. GoC=R+ S+ D+
- 2006: Estimate based on estimated MCV1. Estimate challenged by: D-
- 2005: Estimate based on estimated MCV1. Estimate challenged by: D-

Guatemala - HepBB

GTM - HepBB



Description:

- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Estimate is based on reported data. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	15	31	35	32	22	32	38
Estimate GoC	NA	NA	NA	NA	NA	••	••	••	••	••	••	••
Official	NA	NA	NA	NA	NA	15	31	35	32	22	32	38
Administrative	NA	NA	NA	NA	NA	15	31	35	32	22	32	38
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

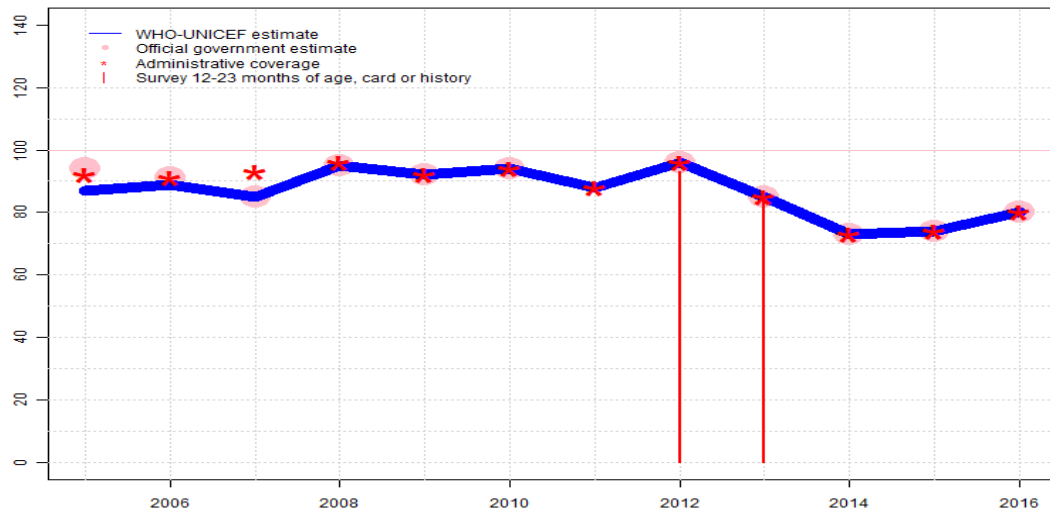
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2015 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.

Guatemala - HepB3

GTM - HepB3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	87	89	85	95	92	94	88	96	85	73	74	80
Estimate GoC	•	•	••	•	•	•	•	•	•••	•	•	••
Official	94	91	85	95	92	94	NA	96	85	73	74	80
Administrative	92	91	93	96	92	94	88	96	85	73	74	80
Survey	NA	NA	NA	NA	NA	NA	NA	93	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: 2015 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.

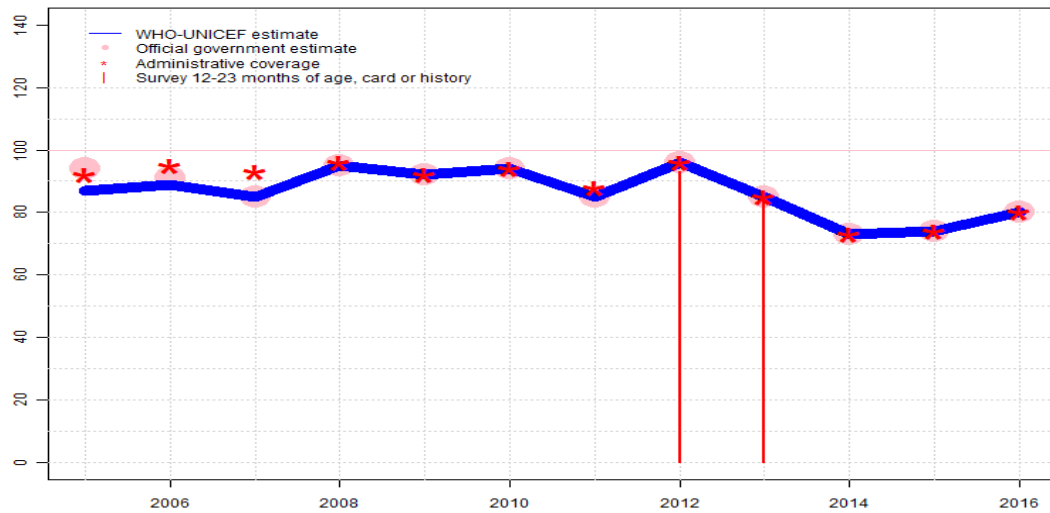
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Programme reports two month stock-out. Reported data are provisional. Estimate challenged by: S-
- 2014: Estimate based on coverage reported by national government. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Programme reports nine month stock-out of DTP containing vaccine at national level. Estimate is based on reported data. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government supported by survey. Survey evidence of 86 percent based on 1 survey(s). Guatemala Demographic and Health Survey 2014-2015 card or history results of 85 percent modified for recall bias to 86 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 90 percent and 3d dose card only coverage of 79 percent. Estimate is based on reported data. Programme reports a five months stockout at national level. GoC=R+ S+ D+
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 95 percent based on 1 survey(s). Guatemala Demographic and Health Survey 2014-2015 card or history results of 93 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 89 percent and 3d dose card only coverage of 85 percent. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on reported data. GoC=R+ D+
- 2006: Estimate of 89 percent assigned by working group. Estimate adjusted to level of DTP3 estimate. Estimate challenged by: D-R-
- 2005: Estimate of 87 percent assigned by working group. Estimate adjusted to level of DTP3 estimate. HepB vaccine introduced in 2005. Vaccine presentation is DTP-HepB-Hib. Estimate challenged by: D-R-

Guatemala - Hib3

GTM - Hib3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	87	89	85	95	92	94	85	96	85	73	74	80
Estimate GoC	•	•	••	•	•	•	•••	•	•••	•	•	••
Official	94	91	85	95	92	94	85	96	85	73	74	80
Administrative	92	95	93	96	92	94	88	96	85	73	74	80
Survey	NA	NA	NA	NA	NA	NA	NA	93	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: 2015 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.

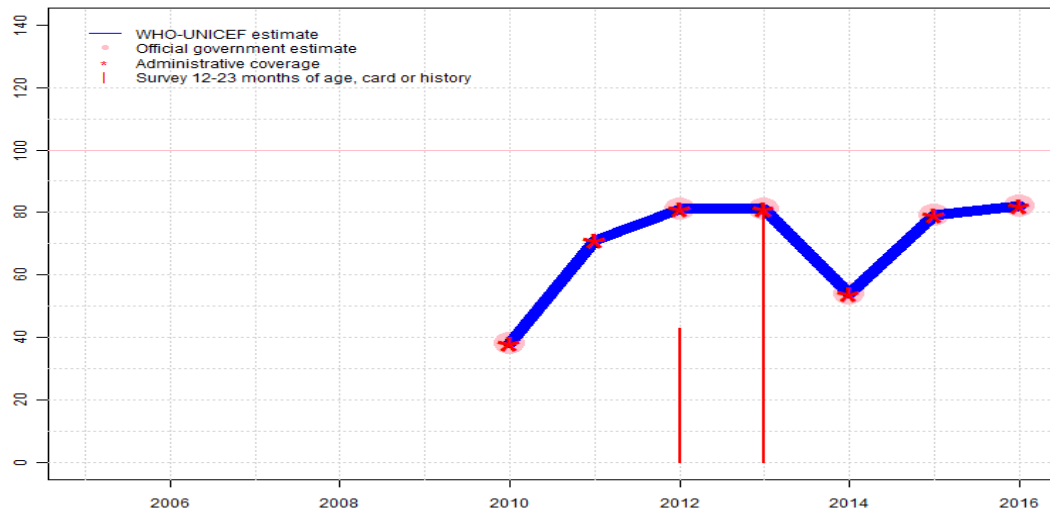
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Programme reports two month stock-out. Reported data are provisional. Estimate challenged by: S-
- 2014: Estimate based on coverage reported by national government. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Programme reports nine month stock-out of DTP containing vaccine at national level. Estimate is based on reported data. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government supported by survey. Survey evidence of 86 percent based on 1 survey(s). Guatemala Demographic and Health Survey 2014-2015 card or history results of 85 percent modified for recall bias to 86 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 90 percent and 3d dose card only coverage of 79 percent. Estimate is based on reported data. GoC=R+ S+ D+
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 95 percent based on 1 survey(s). Guatemala Demographic and Health Survey 2014-2015 card or history results of 93 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 89 percent and 3d dose card only coverage of 85 percent. Estimate is based on reported data. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on reported data. GoC=R+ D+
- 2006: Estimate of 89 percent assigned by working group. Estimate adjusted to level of DTP3 estimate. Estimate challenged by: D-R-
- 2005: Estimate of 87 percent assigned by working group. Estimate adjusted to level of DTP3 estimate. Hib vaccine introduced in 2005 Vaccine presentation is DTP-HepB-Hib. Estimate challenged by: D-R-

Guatemala - RotaC

GTM - RotaC



Description:

- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Reported data suggests increase in coverage despite report of one month national level stock-out. Reported data are provisional. GoC=R+ S+ D+
- 2014: Estimate based on coverage reported by national government. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Programme reports three and a half month stock-out of rotavirus vaccine at national level. Estimate is based on reported data. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government supported by survey. Survey evidence of 83 percent based on 1 survey(s). GoC=R+ S+ D+
- 2012: Estimate based on reported data. Guatemala Demographic and Health Survey 2014-2015 results ignored by working group. Survey results may not reflect coverage during introduction period. GoC=R+ S+ D+
- 2011: Estimate based on reported data. Estimate challenged by: D-S-
- 2010: Estimate based on reported data. Rotavirus vaccine introduced in 2010. GoC=R+ D+

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	38	71	81	81	54	79	82
Estimate GoC	NA	NA	NA	NA	NA	••	•	•••	•••	•	•••	••
Official	NA	NA	NA	NA	NA	38	NA	81	81	54	79	82
Administrative	NA	NA	NA	NA	NA	38	71	81	81	54	79	82
Survey	NA	NA	NA	NA	NA	NA	NA	43	83	NA	NA	NA

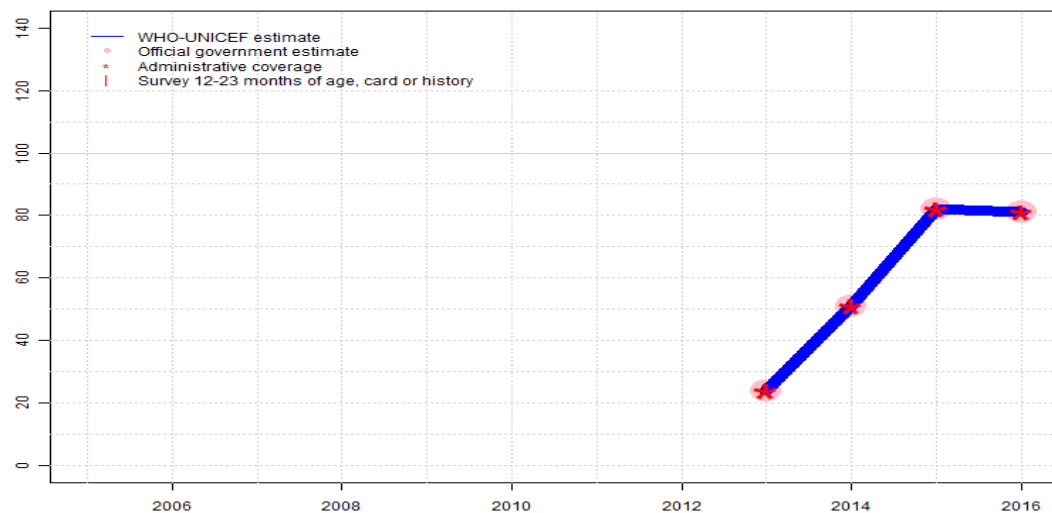
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2015 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.

Guatemala - PcV3

GTM - PcV3



Description:

- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Programme reports two month stock-out. Reported data are provisional. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. Declines in reported coverage during 2014 reflect incomplete reporting and disruptions in routine immunization service delivery resulting from human resource constraints for service delivery and inadequate funding to service delivering NGOs. Programme reports five month stock-out of PcV vaccine at national level. Estimate is based on reported data. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. Pneumococcal conjugate vaccine introduced during November 2012. Reporting started during 2013. GoC=R+ D+

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	24	51	82	81
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	••	••	••	••
Official	NA	NA	NA	NA	NA	NA	NA	NA	24	51	82	81
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	24	51	82	81
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: 2015 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.

Guatemala - survey details

2013 VI Encuesta Nacional de Salud Materno Infantil 2014-2015

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	98	12-23 m	2391	91
BCG	Card	90	12-23 m	2186	91
BCG	Card or History	98	12-23 m	2391	91
DTP1	C or H <12 months	97	12-23 m	2391	91
DTP1	Card	90	12-23 m	2186	91
DTP1	Card or History	98	12-23 m	2391	91
DTP3	C or H <12 months	79	12-23 m	2391	91
DTP3	Card	79	12-23 m	2186	91
DTP3	Card or History	85	12-23 m	2391	91
HepB1	C or H <12 months	97	12-23 m	2391	91
HepB1	Card	90	12-23 m	2186	91
HepB1	Card or History	98	12-23 m	2391	91
HepB3	C or H <12 months	79	12-23 m	2391	91
HepB3	Card	79	12-23 m	2186	91
HepB3	Card or History	85	12-23 m	2391	91
Hib1	C or H <12 months	97	12-23 m	2391	91
Hib1	Card	90	12-23 m	2186	91
Hib1	Card or History	98	12-23 m	2391	91
Hib3	C or H <12 months	79	12-23 m	2391	91
Hib3	Card	79	12-23 m	2186	91
Hib3	Card or History	85	12-23 m	2391	91
MCV1	C or H <18 months	61	12-23 m	2391	91
MCV1	Card	58	12-23 m	2186	91
MCV1	Card or History	63	12-23 m	2391	91
PCV1	C or H <12 months	87	12-23 m	2391	91
PCV1	Card	82	12-23 m	2186	91
PCV1	Card or History	89	12-23 m	2391	91
Pol1	C or H <12 months	97	12-23 m	2391	91
Pol1	Card	90	12-23 m	2186	91
Pol1	Card or History	98	12-23 m	2391	91
Pol3	C or H <12 months	75	12-23 m	2391	91
Pol3	Card	76	12-23 m	2186	91
Pol3	Card or History	82	12-23 m	2391	91
RotaC	C or H <12 months	83	12-23 m	2391	91
RotaC	Card	77	12-23 m	2186	91
RotaC	Card or History	83	12-23 m	2391	91

2012 VI Encuesta Nacional de Salud Materno Infantil 2014-2015

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	98	18-29 m	2446	91
BCG	Card	88	18-29 m	2186	91
BCG	Card or History	98	18-29 m	2446	91
DTP1	C or H <12 months	98	18-29 m	2446	91
DTP1	Card	89	18-29 m	2186	91
DTP1	Card or History	99	18-29 m	2446	91
DTP3	C or H <12 months	88	18-29 m	2446	91
DTP3	Card	85	18-29 m	2186	91
DTP3	Card or History	93	18-29 m	2446	91
HepB1	C or H <12 months	98	18-29 m	2446	91
HepB1	Card	89	18-29 m	2186	91
HepB1	Card or History	99	18-29 m	2446	91
HepB3	C or H <12 months	88	18-29 m	2446	91
HepB3	Card	85	18-29 m	2186	91
HepB3	Card or History	93	18-29 m	2446	91
Hib1	C or H <12 months	98	18-29 m	2446	91
Hib1	Card	89	18-29 m	2186	91
Hib1	Card or History	99	18-29 m	2446	91
Hib3	C or H <12 months	88	18-29 m	2446	91
Hib3	Card	85	18-29 m	2186	91
Hib3	Card or History	93	18-29 m	2446	91
MCV1	C or H <18 months	84	18-29 m	2446	91
MCV1	Card	80	18-29 m	2186	91
MCV1	Card or History	88	18-29 m	2446	91
PCV1	C or H <12 months	45	18-29 m	2446	91
PCV1	Card	41	18-29 m	2186	91
PCV1	Card or History	46	18-29 m	2446	91
Pol1	C or H <12 months	98	18-29 m	2446	91
Pol1	Card	89	18-29 m	2186	91
Pol1	Card or History	99	18-29 m	2446	91
Pol3	C or H <12 months	88	18-29 m	2446	91
Pol3	Card	85	18-29 m	2186	91
Pol3	Card or History	93	18-29 m	2446	91
RotaC	C or H <12 months	42	18-29 m	2446	91
RotaC	Card	39	18-29 m	2186	91
RotaC	Card or History	43	18-29 m	2446	91

Guatemala - survey details

2007 Guatemala, Encuesta Nacional de Salud Materno Infantil 2008-2009

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	97	12-23 m	1861	87
DTP1	Card or History	96	12-23 m	1861	87
DTP3	Card or History	84	12-23 m	1861	87
Pol1	Card or History	96	12-23 m	1861	87
Pol3	Card or History	85	12-23 m	1861	87

2006 Guatemala, Encuesta Nacional de Salud Materno Infantil 2008-2009

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
MCV1	Card or History	90	24-35 m	1861	87

2001 Guatemala, Encuesta Nacional de Salud Materno Infantil 2002

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	92	12-23 m	1487	69
DTP1	Card or History	93	12-23 m	1487	69
DTP3	Card or History	77	12-23 m	1487	69
MCV1	Card or History	75	12-23 m	1487	69
Pol1	Card or History	94	12-23 m	1487	69
Pol3	Card or History	78	12-23 m	1487	69

1998 Guatemala, Encuesta Nacional de Salud Materno Infantil 1998-1999

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	82	12-23 m	848	68
BCG	Card	65	12-23 m	848	68

BCG	Card or History	90	12-23 m	848	68
BCG	History	26	12-23 m	848	68
DTP1	C or H <12 months	88	12-23 m	848	68
DTP1	Card	66	12-23 m	848	68
DTP1	Card or History	92	12-23 m	848	68
DTP1	History	26	12-23 m	848	68
DTP3	C or H <12 months	54	12-23 m	848	68
DTP3	Card	56	12-23 m	848	68
DTP3	Card or History	70	12-23 m	848	68
DTP3	History	15	12-23 m	848	68
MCV1	C or H <12 months	53	12-23 m	848	68
MCV1	Card	59	12-23 m	848	68
MCV1	Card or History	81	12-23 m	848	68
MCV1	History	22	12-23 m	848	68
Pol1	C or H <12 months	59	12-23 m	848	68
Pol1	Card	67	12-23 m	848	68
Pol1	Card or History	92	12-23 m	848	68
Pol1	History	25	12-23 m	848	68
Pol3	C or H <12 months	52	12-23 m	848	68
Pol3	Card	56	12-23 m	848	68
Pol3	Card or History	67	12-23 m	848	68
Pol3	History	10	12-23 m	848	68

1997 Guatemala, Encuesta Nacional de Salud Materno Infantil 1998-1999

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	77	24-35 m	868	68
DTP1	C or H <12 months	80	24-35 m	868	68
DTP3	C or H <12 months	51	24-35 m	868	68
MCV1	C or H <12 months	48	24-35 m	868	68
Pol1	C or H <12 months	81	24-35 m	868	68
Pol3	C or H <12 months	49	24-35 m	868	68

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