

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.

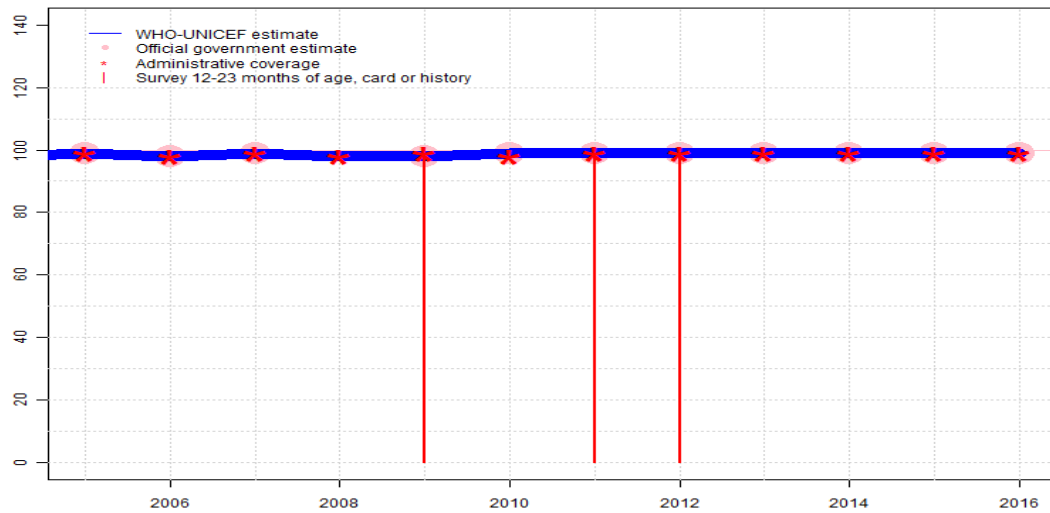
PcV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect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

MNG - BCG



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	99	98	99	98	98	99	99	99	99	99	99	99
Estimate GoC	•	•	•••	•••	•	•••	•••	•••	•	•	•	•
Official	99	98	99	NA	98	99	99	99	99	99	99	99
Administrative	99	98	99	98	99	98	99	99	99	99	99	99
Survey	NA	NA	NA	NA	98	NA	97.6	99.3	NA	NA	NA	NA

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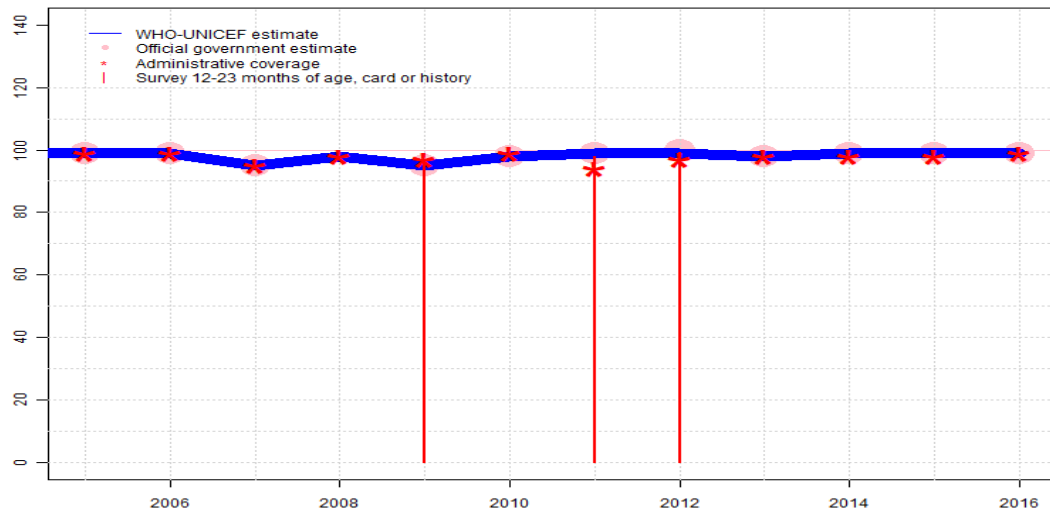
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- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
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Mongolia - DTP1

MNG - DTP1



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	99	99	95	98	95	98	99	99	98	99	99	99
Estimate GoC	•	•	•••	•••	•	•••	•••	•••	•	•	•	•
Official	99	99	95	NA	95	98	99	100	98	99	99	99
Administrative	99	99	95	98	97	99	94	97	98	98	98	99
Survey	NA	NA	NA	NA	96	NA	97.9	99.1	NA	NA	NA	NA

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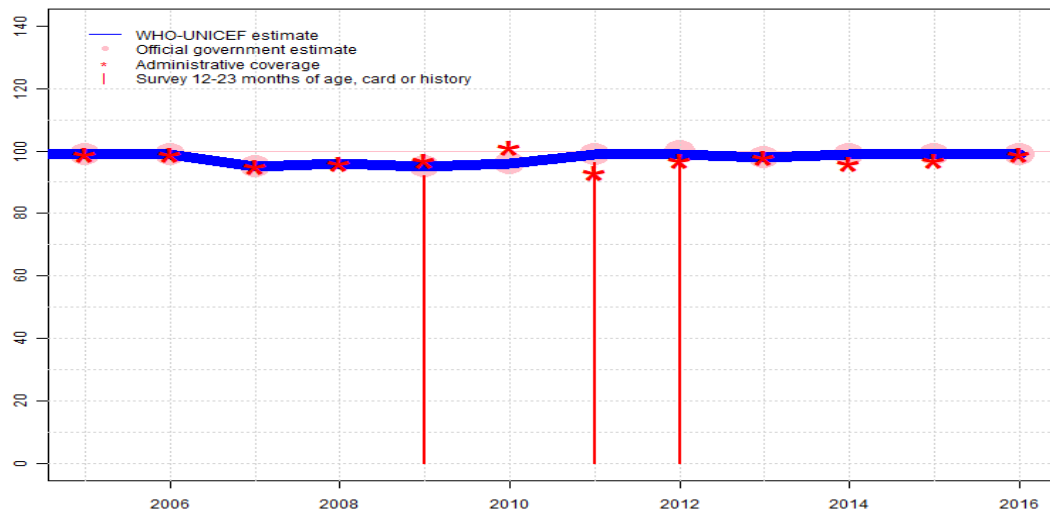
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- 2008: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
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Mongolia - DTP3

MNG - DTP3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	99	99	95	96	95	96	99	99	98	99	99	99
Estimate GoC	•	•	•••	•••	•	•••	•••	•••	•	•	•	•
Official	99	99	95	NA	95	96	99	100	98	99	99	99
Administrative	99	99	95	96	97	101	93	97	98	96	97	99
Survey	NA	NA	NA	NA	92	NA	96.2	98	NA	NA	NA	NA

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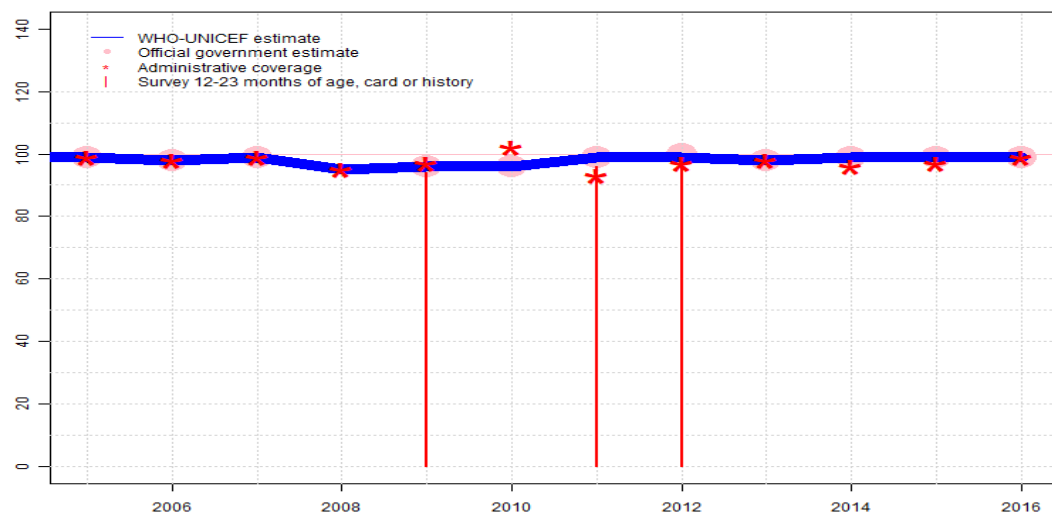
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- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). Mongolia Social Indicator Sample Survey 2013 card or history results of 96 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 95 percent and 3d dose card only coverage of 93 percent. GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 93 percent based on 1 survey(s). Mongolia Multiple Indicator Cluster Survey 2010 card or history results of 92 percent modified for recall bias to 93 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 81 percent and 3d dose card only coverage of 79 percent. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
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Mongolia - Pol3

MNG - Pol3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	99	98	99	95	96	96	99	99	98	99	99	99
Estimate GoC	●●●	●	●●●	●●●	●	●●●	●●●	●●●	●	●	●	●
Official	99	98	99	NA	96	96	99	100	98	99	99	99
Administrative	99	98	99	95	97	102	93	97	98	96	97	99
Survey	NA	NA	NA	NA	94	NA	95.9	97.6	NA	NA	NA	NA

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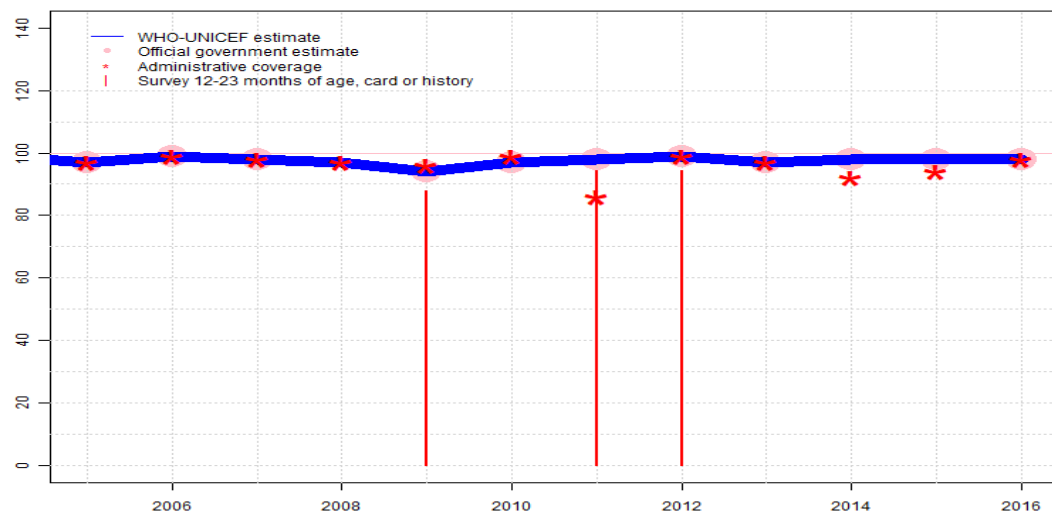
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- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 95 percent based on 1 survey(s). Mongolia Multiple Indicator Cluster Survey 2010 card or history results of 94 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 84 percent and 3d dose card only coverage of 82 percent. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. GoC=R+ S+ D+

Mongolia - MCV1

MNG - MCV1



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	97	99	98	97	94	97	98	99	97	98	98	98
Estimate GoC	•	•	•	•••	•••	•••	•••	•••	•	•	•	•
Official	97	99	98	NA	94	97	98	99	97	98	98	98
Administrative	97	99	98	97	96	99	86	99	97	92	94	98
Survey	NA	NA	NA	NA	88	NA	94.5	94.2	NA	NA	NA	NA

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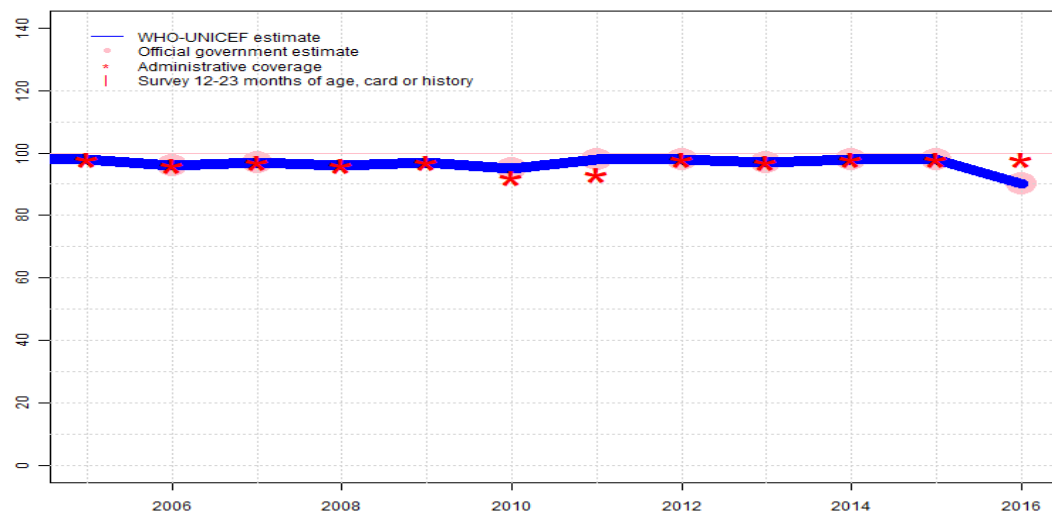
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- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 88 percent based on 1 survey(s). GoC=R+ S+ D+
- 2008: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. 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-

Mongolia - MCV2

MNG - MCV2



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	98	96	97	96	97	95	98	98	97	98	98	90
Estimate GoC	•	•	•	•	•	•	••	•	•	•	•	•
Official	NA	96	97	NA	NA	95	98	98	97	98	98	90
Administrative	98	96	97	96	97	92	93	98	97	98	98	98
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Description:

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

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2011: Estimate based on coverage reported by national government. GoC=R+ D+

2010: Estimate based on coverage reported by national government. Estimate challenged by: D-

2009: Estimate based on reported administrative estimate. Estimate challenged by: D-

2008: Estimate based on reported administrative estimate. Estimate challenged by: D-

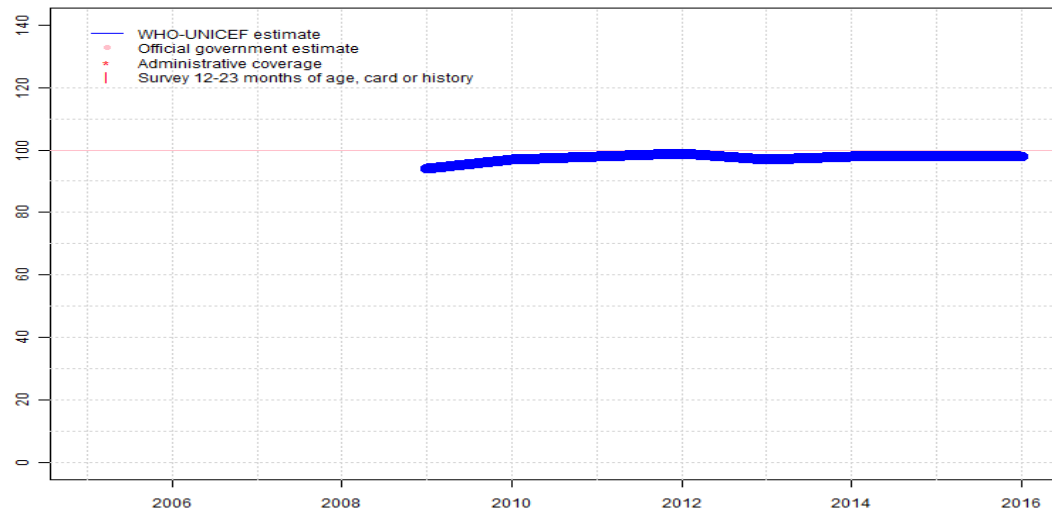
2007: Estimate based on coverage reported by national government. Estimate challenged by: D-

2006: Estimate based on coverage reported by national government. Estimate challenged by: D-

2005: Estimate based on reported administrative estimate. Estimate challenged by: D-

Mongolia - RCV1

MNG - RCV1



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	94	97	98	99	97	98	98	98
Estimate GoC	NA	NA	NA	NA	•••	•••	•••	•••	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

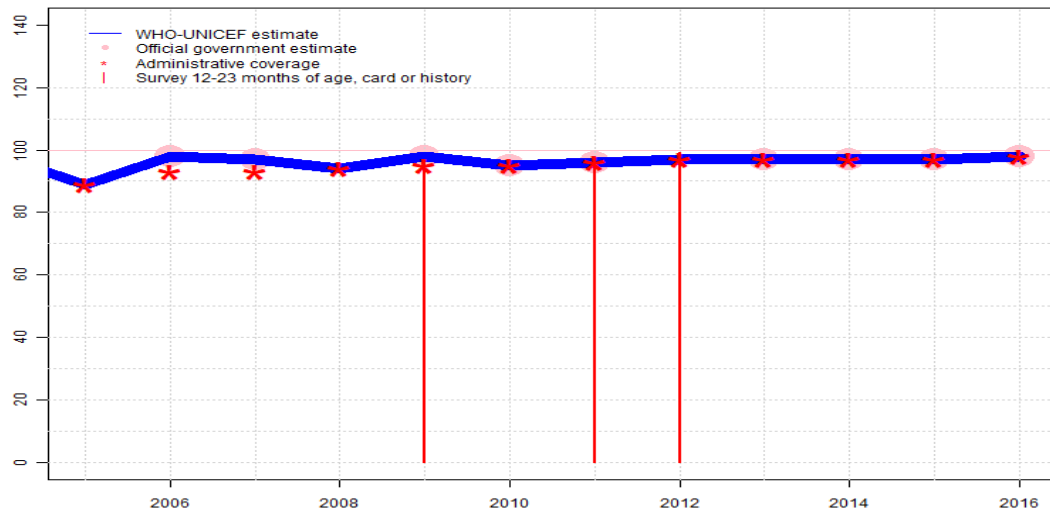
Description:

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. WHO and UNICEF are aware of a recently conducted survey that includes routine immunization coverage data and await the final results. Estimate challenged by: D-
- 2015: Estimate based on estimated MCV1. Preliminary results from recent measles outbreak investigation, that included a review of routine immunization, suggests that actual coverage levels are likely lower than those suggested by the reported coverage. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2014: Estimate based on estimated MCV1. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2013: Estimate based on estimated MCV1. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2012: Estimate based on estimated MCV1. GoC=R+ S+ D+
- 2011: Estimate based on estimated MCV1. GoC=R+ S+ D+
- 2010: Estimate based on estimated MCV1. GoC=R+ S+ D+
- 2009: Estimate based on estimated MCV1. GoC=R+ S+ D+

Mongolia - HepBB

MNG - HepBB



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	89	98	97	94	98	95	96	97	97	97	97	98
Estimate GoC	•	•	••	••	•••	•••	•••	•••	•	•	•	•
Official	NA	98	97	NA	98	95	96	NA	97	97	97	98
Administrative	89	93	93	94	95	95	96	97	97	97	97	98
Survey	NA	NA	NA	NA	96.7	NA	97.4	99.1	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.

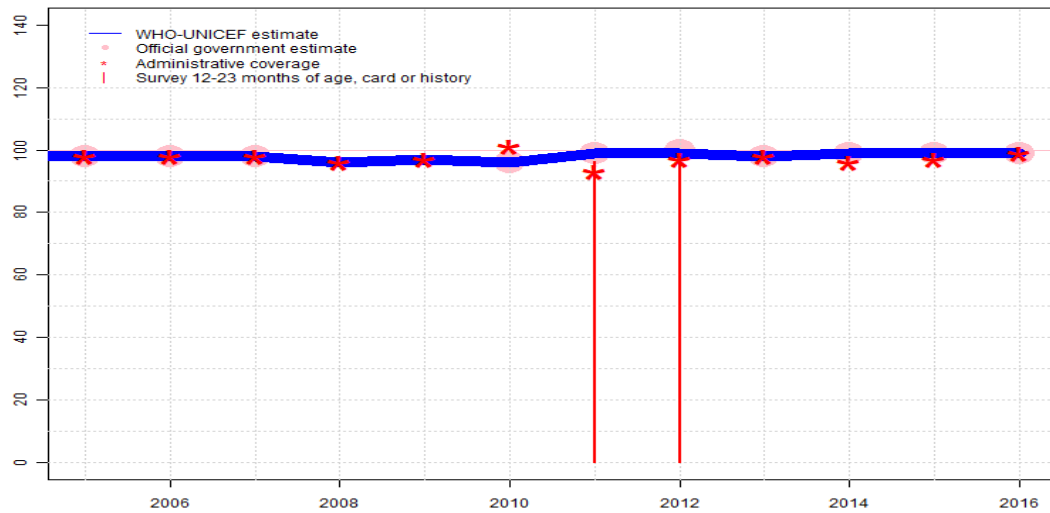
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on coverage reported by national government. WHO and UNICEF are aware of a recently conducted survey that includes routine immunization coverage data and await the final results. Estimate challenged by: D-
- 2015: Estimate based on coverage reported by national government. Preliminary results from recent measles outbreak investigation, that included a review of routine immunization, suggests that actual coverage levels are likely lower than those suggested by the reported coverage. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2014: Estimate based on coverage reported by national government. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2013: Estimate based on coverage reported by national government. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2012: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 99 percent based on 1 survey(s). GoC=R+ S+ D+
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). GoC=R+ S+ D+
- 2010: Estimate based on reported data. GoC=R+ S+ D+
- 2009: Estimate based on reported data. Survey results ignored. Sample size 0 less than 300. GoC=R+ S+ D+
- 2008: Estimate based on reported data. GoC=R+ D+
- 2007: Estimate based on reported data. GoC=R+ D+
- 2006: Estimate based on reported data. Estimate challenged by: D-
- 2005: Estimate based on reported data. Estimate challenged by: D-

Mongolia - HepB3

MNG - HepB3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	98	98	98	96	97	96	99	99	98	99	99	99
Estimate GoC	•	•	•	••	•	•••	•••	•••	•	•	•	•
Official	98	98	98	NA	NA	96	99	100	98	99	99	99
Administrative	98	98	98	96	97	101	93	97	98	96	97	99
Survey	NA	NA	NA	NA	NA	NA	96.2	98	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.

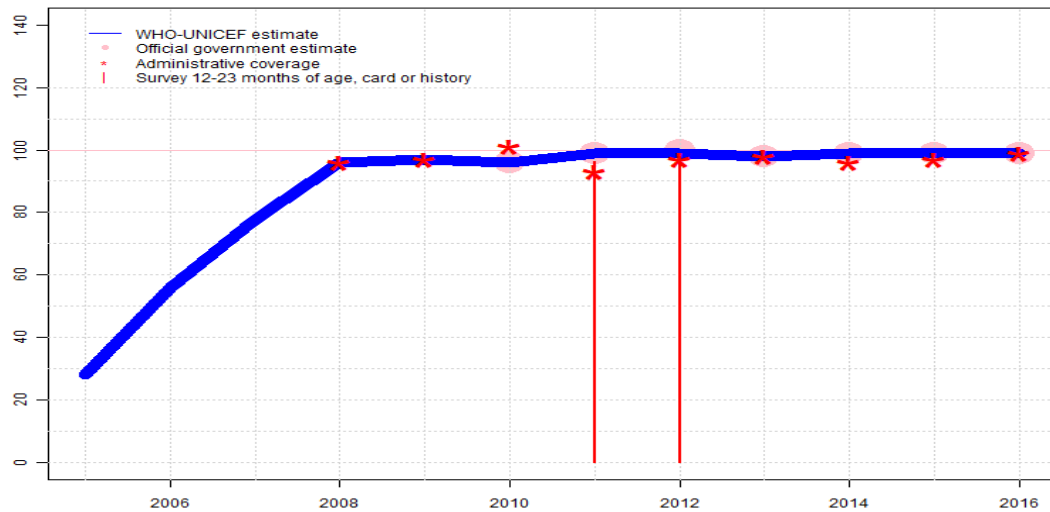
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on coverage reported by national government. WHO and UNICEF are aware of a recently conducted survey that includes routine immunization coverage data and await the final results. Estimate challenged by: D-
- 2015: Estimate based on coverage reported by national government. Preliminary results from recent measles outbreak investigation, that included a review of routine immunization, suggests that actual coverage levels are likely lower than those suggested by the reported coverage. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2014: Estimate based on coverage reported by national government. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2013: Estimate based on coverage reported by national government. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). Mongolia Social Indicator Sample Survey 2013 card or history results of 98 percent modified for recall bias to 98 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 98 percent and 3d dose card only coverage of 97 percent. GoC=R+ S+ D+
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). Mongolia Social Indicator Sample Survey 2013 card or history results of 96 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 95 percent and 3d dose card only coverage of 93 percent. GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2009: Estimate based on reported administrative data. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. 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-

Mongolia - Hib3

MNG - Hib3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	28	56	78	96	97	96	99	99	98	99	99	99
Estimate GoC	••	••	••	••	•	•••	•••	•••	•	•	•	•
Official	NA	NA	NA	NA	NA	96	99	100	98	99	99	99
Administrative	NA	NA	NA	96	97	101	93	97	98	96	97	99
Survey	NA	NA	NA	NA	NA	NA	96.2	98	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.

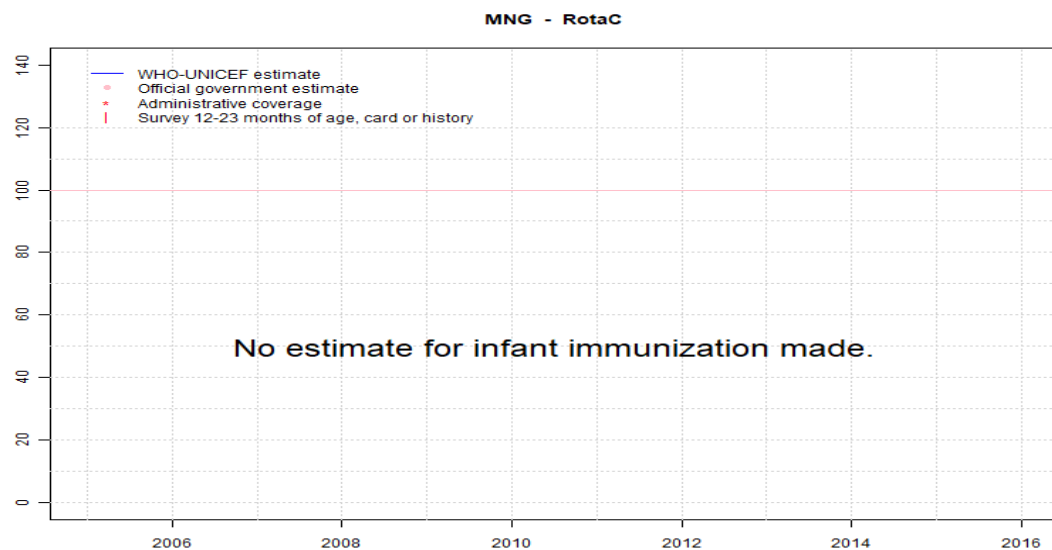
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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:

- 2016: Estimate based on coverage reported by national government. WHO and UNICEF are aware of a recently conducted survey that includes routine immunization coverage data and await the final results. Estimate challenged by: D-
- 2015: Estimate based on coverage reported by national government. Preliminary results from recent measles outbreak investigation, that included a review of routine immunization, suggests that actual coverage levels are likely lower than those suggested by the reported coverage. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2014: Estimate based on coverage reported by national government. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2013: Estimate based on coverage reported by national government. GoC=Assigned by working group. Concerns have been expressed about the target population being used and differences with population estimates from the civil registry system.
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). Mongolia Social Indicator Sample Survey 2013 card or history results of 98 percent modified for recall bias to 98 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 98 percent and 3d dose card only coverage of 97 percent. GoC=R+ S+ D+
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). Mongolia Social Indicator Sample Survey 2013 card or history results of 96 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 95 percent and 3d dose card only coverage of 93 percent. GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2009: Estimate based on reported administrative data. Estimate challenged by: D-
- 2008: DTP-HepB-Hib vaccine nationally available. GoC=R+ D+
- 2007: Estimate of 78 percent assigned by working group. Ninety-nine percent coverage achieved in 78 percent of the country. GoC=D+
- 2006: Estimate of 56 percent assigned by working group. Ninety-eight percent coverage achieved in 57 percent of the country. GoC=D+
- 2005: Estimate of 28 percent assigned by working group. Hib vaccine introduced in 2005 as a DTP-HepB-Hib combination vaccine. Ninety-nine percent coverage achieved in 28 percent of the country. GoC=D+

Mongolia - RotaC



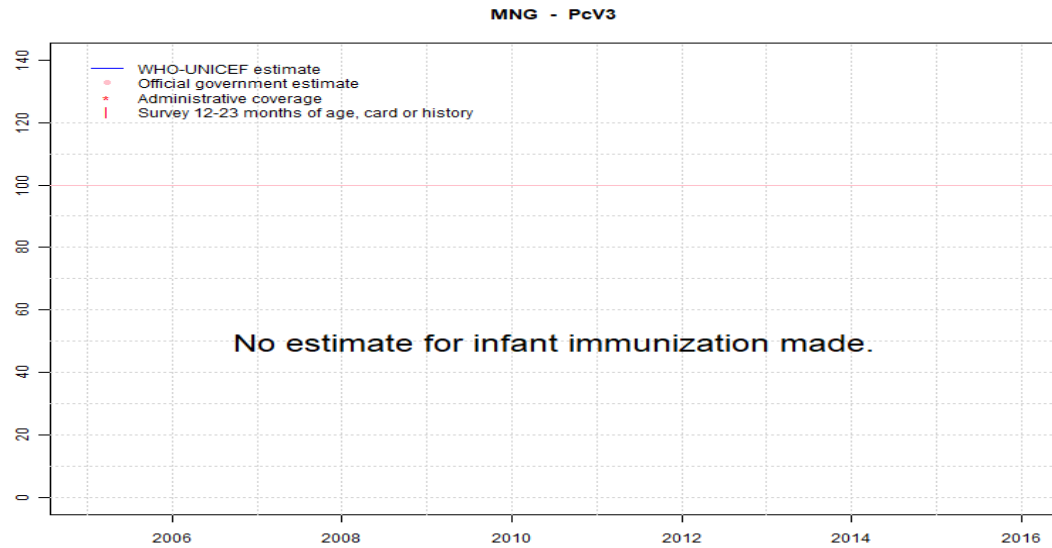
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

Mongolia - PcV3



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

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

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

Mongolia - survey details

2012 Mongolia Social Indicator Sample Survey 2013

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	93.3	12-23 m	1180	99
BCG	Card	97.7	12-23 m	1180	99
BCG	Card or History	99.3	12-23 m	1180	99
BCG	History	1.5	12-23 m	1180	99
DTP1	C or H <12 months	94.5	12-23 m	1180	99
DTP1	Card	98.2	12-23 m	1180	99
DTP1	Card or History	99.1	12-23 m	1180	99
DTP1	History	0.9	12-23 m	1180	99
DTP3	C or H <12 months	92.5	12-23 m	1180	99
DTP3	Card	96.7	12-23 m	1180	99
DTP3	Card or History	98	12-23 m	1180	99
DTP3	History	1.2	12-23 m	1180	99
HepB1	C or H <12 months	94.5	12-23 m	1180	99
HepB1	Card	98.2	12-23 m	1180	99
HepB1	Card or History	99.1	12-23 m	1180	99
HepB1	History	0.9	12-23 m	1180	99
HepB3	C or H <12 months	92.5	12-23 m	1180	99
HepB3	Card	96.7	12-23 m	1180	99
HepB3	Card or History	98	12-23 m	1180	99
HepB3	History	1.2	12-23 m	1180	99
HepBB	C or H <12 months	93.1	12-23 m	1180	99
HepBB	Card	97.6	12-23 m	1180	99
HepBB	Card or History	99.1	12-23 m	1180	99
HepBB	History	1.5	12-23 m	1180	99
Hib1	C or H <12 months	94.5	12-23 m	1180	99
Hib1	Card	98.2	12-23 m	1180	99
Hib1	Card or History	99.1	12-23 m	1180	99
Hib1	History	0.9	12-23 m	1180	99
Hib3	C or H <12 months	92.5	12-23 m	1180	99
Hib3	Card	96.7	12-23 m	1180	99
Hib3	Card or History	98	12-23 m	1180	99
Hib3	History	1.2	12-23 m	1180	99
MCV1	C or H <12 months	86.1	12-23 m	1180	99
MCV1	Card	90.4	12-23 m	1180	99
MCV1	Card or History	94.2	12-23 m	1180	99
MCV1	History	3.8	12-23 m	1180	99
Pol1	C or H <12 months	94.4	12-23 m	1180	99

Pol1	Card	98.2	12-23 m	1180	99
Pol1	Card or History	98.9	12-23 m	1180	99
Pol1	History	0.7	12-23 m	1180	99
Pol3	C or H <12 months	92.3	12-23 m	1180	99
Pol3	Card	96.7	12-23 m	1180	99
Pol3	Card or History	97.6	12-23 m	1180	99
Pol3	History	0.9	12-23 m	1180	99

2011 Mongolia Social Indicator Sample Survey 2013

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	86.5	24-35 m	1236	99
BCG	Card	94.4	24-35 m	1236	99
BCG	Card or History	97.6	24-35 m	1236	99
BCG	History	3.2	24-35 m	1236	99
DTP1	C or H <12 months	86.1	24-35 m	1236	99
DTP1	Card	95.2	24-35 m	1236	99
DTP1	Card or History	97.9	24-35 m	1236	99
DTP1	History	2.8	24-35 m	1236	99
DTP3	C or H <12 months	84.2	24-35 m	1236	99
DTP3	Card	93.4	24-35 m	1236	99
DTP3	Card or History	96.2	24-35 m	1236	99
DTP3	History	2.8	24-35 m	1236	99
HepB1	C or H <12 months	86.1	24-35 m	1236	99
HepB1	Card	95.2	24-35 m	1236	99
HepB1	Card or History	97.9	24-35 m	1236	99
HepB1	History	2.8	24-35 m	1236	99
HepB3	C or H <12 months	84.2	24-35 m	1236	99
HepB3	Card	93.4	24-35 m	1236	99
HepB3	Card or History	96.2	24-35 m	1236	99
HepB3	History	2.8	24-35 m	1236	99
HepBB	C or H <12 months	86	24-35 m	1236	99
HepBB	Card	94.4	24-35 m	1236	99
HepBB	Card or History	97.4	24-35 m	1236	99
HepBB	History	3.1	24-35 m	1236	99
Hib1	C or H <12 months	86.1	24-35 m	1236	99
Hib1	Card	95.2	24-35 m	1236	99
Hib1	Card or History	97.9	24-35 m	1236	99
Hib1	History	2.8	24-35 m	1236	99

Mongolia - survey details

Hib3	C or H <12 months	84.2	24-35 m	1236	99
Hib3	Card	93.4	24-35 m	1236	99
Hib3	Card or History	96.2	24-35 m	1236	99
Hib3	History	2.8	24-35 m	1236	99
MCV1	C or H <12 months	79.1	24-35 m	1236	99
MCV1	Card	89.2	24-35 m	1236	99
MCV1	Card or History	94.5	24-35 m	1236	99
MCV1	History	5.3	24-35 m	1236	99
Pol1	C or H <12 months	86	24-35 m	1236	99
Pol1	Card	95.1	24-35 m	1236	99
Pol1	Card or History	97.6	24-35 m	1236	99
Pol1	History	2.4	24-35 m	1236	99
Pol3	C or H <12 months	83.9	24-35 m	1236	99
Pol3	Card	93.4	24-35 m	1236	99
Pol3	Card or History	95.9	24-35 m	1236	99
Pol3	History	2.6	24-35 m	1236	99

2009 Mongolia Multiple Indicator Cluster Survey 2010

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	97.9	12-23 m	-	85
BCG	Card	83.1	12-23 m	-	85
BCG	Card or History	98	12-23 m	944	85
BCG	History	14.9	12-23 m	-	85
DTP1	C or H <12 months	95.5	12-23 m	-	85
DTP1	Card	81.4	12-23 m	-	85
DTP1	Card or History	96	12-23 m	944	85
DTP1	History	14.2	12-23 m	-	85
DTP3	C or H <12 months	92.1	12-23 m	-	85
DTP3	Card	79.1	12-23 m	-	85
DTP3	Card or History	92	12-23 m	944	85
DTP3	History	13.3	12-23 m	-	85
HepBB	C or H <12 months	96.7	12-23 m	-	85
HepBB	Card	82.9	12-23 m	-	85
HepBB	Card or History	96.7	12-23 m	-	85
HepBB	History	13.7	12-23 m	-	85
MCV1	C or H <12 months	86.6	12-23 m	-	85
MCV1	Card	74.6	12-23 m	-	85
MCV1	Card or History	88	12-23 m	944	85

MCV1	History	13.2	12-23 m	-	85
Pol1	C or H <12 months	97.6	12-23 m	-	85
Pol1	Card	84	12-23 m	-	85
Pol1	Card or History	98	12-23 m	944	85
Pol1	History	13.7	12-23 m	-	85
Pol3	C or H <12 months	93.3	12-23 m	-	85
Pol3	Card	81.8	12-23 m	-	85
Pol3	Card or History	94	12-23 m	944	85
Pol3	History	12	12-23 m	-	85

2004 Mongolia Child and Development 2005 Survey (MICS-3)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	97.6	12-23 m	724	80
BCG	Card	79.7	12-23 m	724	80
BCG	Card or History	97.6	12-23 m	724	80
BCG	History	17.9	12-23 m	724	80
DTP1	C or H <12 months	92.6	12-23 m	724	80
DTP1	Card	76.7	12-23 m	724	80
DTP1	Card or History	93.6	12-23 m	724	80
DTP1	History	16.9	12-23 m	724	80
DTP3	C or H <12 months	92	12-23 m	724	80
DTP3	Card	76.3	12-23 m	724	80
DTP3	Card or History	93.2	12-23 m	724	80
DTP3	History	16.9	12-23 m	724	80
MCV1	C or H <12 months	76.1	12-23 m	724	80
MCV1	Card	73.7	12-23 m	724	80
MCV1	Card or History	88.2	12-23 m	724	80
MCV1	History	14.5	12-23 m	724	80
Pol1	C or H <12 months	97.1	12-23 m	724	80
Pol1	Card	79.8	12-23 m	724	80
Pol1	Card or History	97.6	12-23 m	724	80
Pol1	History	17.9	12-23 m	724	80
Pol3	C or H <12 months	93	12-23 m	724	80
Pol3	Card	76.3	12-23 m	724	80
Pol3	Card or History	94.2	12-23 m	724	80
Pol3	History	17.9	12-23 m	724	80

Mongolia - survey details

1999 Mongolia, Child and Development survey-2000 (MICS-2), 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	89.8	12-23 m	1255	90
BCG	Card or History	95.6	12-23 m	1255	90
BCG	History	5.8	12-23 m	1255	90
DTP1	Card	86.9	12-23 m	1255	90
DTP1	Card or History	91.9	12-23 m	1255	90
DTP1	History	5	12-23 m	1255	90
DTP3	Card	86.8	12-23 m	1255	90
DTP3	Card or History	89.2	12-23 m	1255	90

DTP3	History	2.4	12-23 m	1255	90
MCV1	Card	82.3	12-23 m	1255	90
MCV1	Card or History	85.7	12-23 m	1255	90
MCV1	History	3.3	12-23 m	1255	90
Pol1	Card	87.1	12-23 m	1255	90
Pol1	Card or History	92.3	12-23 m	1255	90
Pol1	History	5.2	12-23 m	1255	90
Pol3	Card	86.9	12-23 m	1255	90
Pol3	Card or History	88.8	12-23 m	1255	90
Pol3	History	2	12-23 m	1255	90

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