

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.

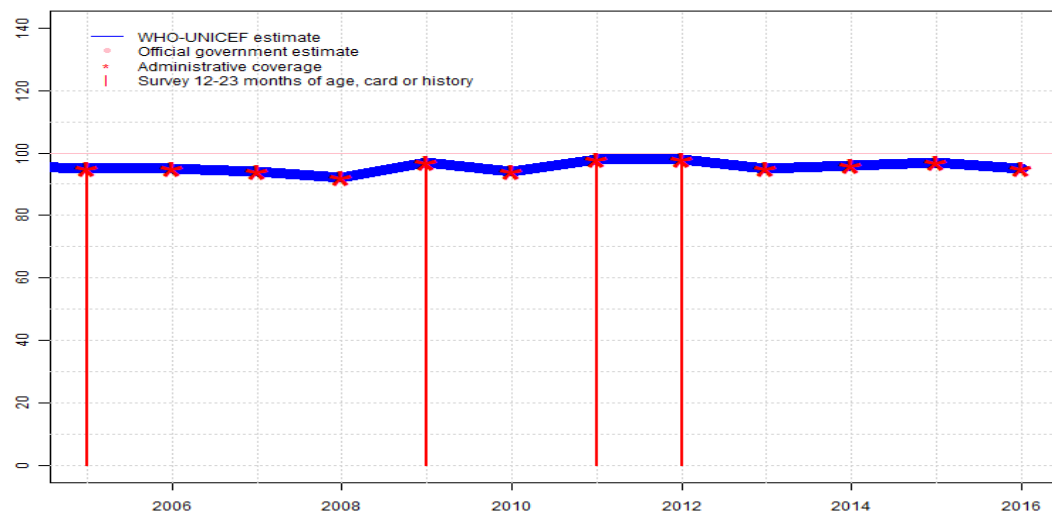
PcV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect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

VNM - BCG



Description:

- 2016: Estimate based on reported administrative data. GoC=R+ D+
- 2015: Estimate based on reported administrative data. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2015 with results for the 2013-14 birth cohorts. The survey report notes that the survey was not designed to derive national level coverage estimates and therefore is not taken into consideration here. Estimate challenged by: D-
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- 2010: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2009: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). GoC=R+ S+ D+
- 2008: Estimate based on reported administrative data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2009 with results for the 2008 birth cohort. A review of survey methods has concluded that the survey does not provide nationally representative results and therefore is not taken into consideration here. GoC=R+ S+ D+
- 2007: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2006: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2005: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 95 percent based on 1 survey(s). GoC=R+ S+ D+

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	95	95	94	92	97	94	98	98	95	96	97	95
Estimate GoC	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●	●	●	●	●●
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	95	95	94	92	97	94	98	98	95	96	97	95
Survey	95	NA	NA	NA	96	NA	98	98	NA	NA	NA	NA

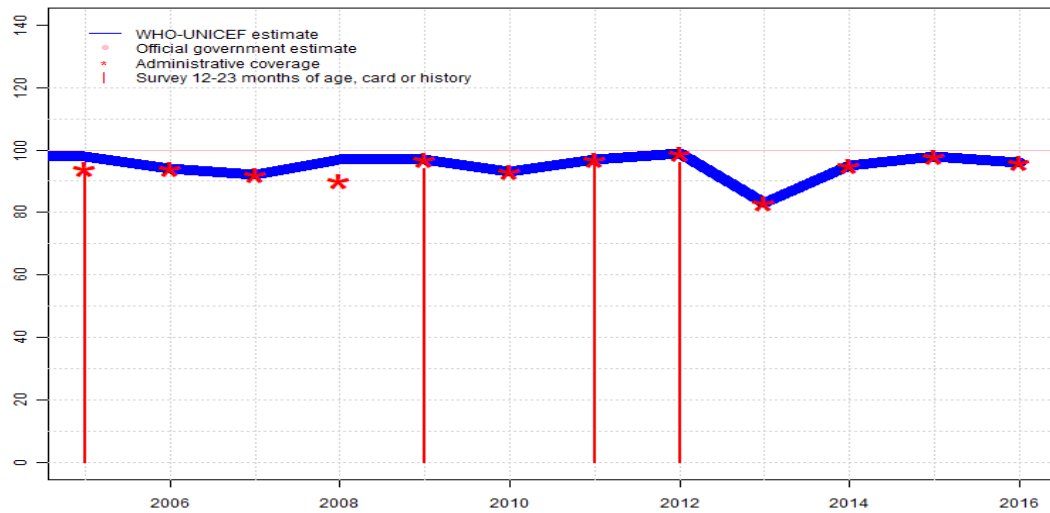
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Viet Nam - DTP1

VNM - DTP1



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	98	94	92	97	97	93	97	99	83	95	98	96
Estimate GoC	•	•••	•••	•	•••	•••	•••	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	94	94	92	90	97	93	97	99	83	95	98	96
Survey	94	NA	NA	NA	94	NA	96	96	NA	NA	NA	NA

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- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

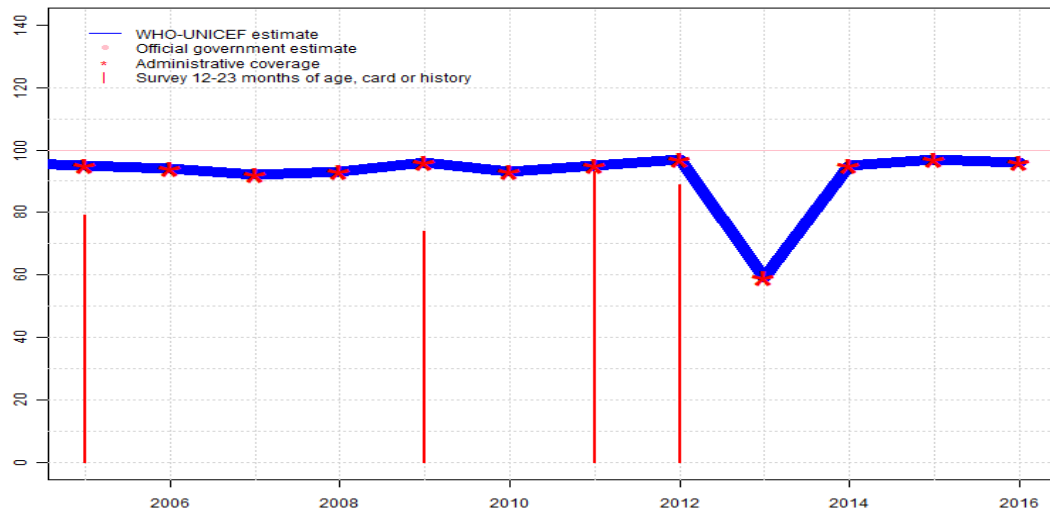
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Description:

- 2016: Estimate based on reported administrative data. Estimate challenged by: D-
- 2015: Estimate based on reported administrative data. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Recovery in coverage following suspension of DTP-HepB-Hib pentavalent vaccine at national level for 5 months following adverse events. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2015 with results for the 2013-14 birth cohorts. The survey report notes that the survey was not designed to derive national level coverage estimates and therefore is not taken into consideration here. Decline in coverage due to suspension of DTP-HepB-Hib pentavalent vaccine at national level for 5 months following adverse events. Estimate challenged by: D-S-
- 2012: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). Survey evidence from MICS was based on 94 percent documented evidence from home-based record plus facility-based records. Estimate challenged by: D-
- 2011: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). GoC=R+ S+ D+
- 2010: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2009: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). GoC=R+ S+ D+
- 2008: DTP1 coverage estimated based on DTP3 coverage of 93. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2009 with results for the 2008 birth cohort. A review of survey methods has concluded that the survey does not provide nationally representative results and therefore is not taken into consideration here. Estimate challenged by: R-
- 2007: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2006: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2005: DTP1 coverage estimated based on DTP3 coverage of 95. Estimate challenged by: R-

Viet Nam - DTP3

VNM - DTP3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	95	94	92	93	96	93	95	97	59	95	97	96
Estimate GoC	••	••	•••	•••	•••	•••	•••	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	95	94	92	93	96	93	95	97	59	95	97	96
Survey	79	NA	NA	NA	74	NA	93	89	NA	NA	NA	NA

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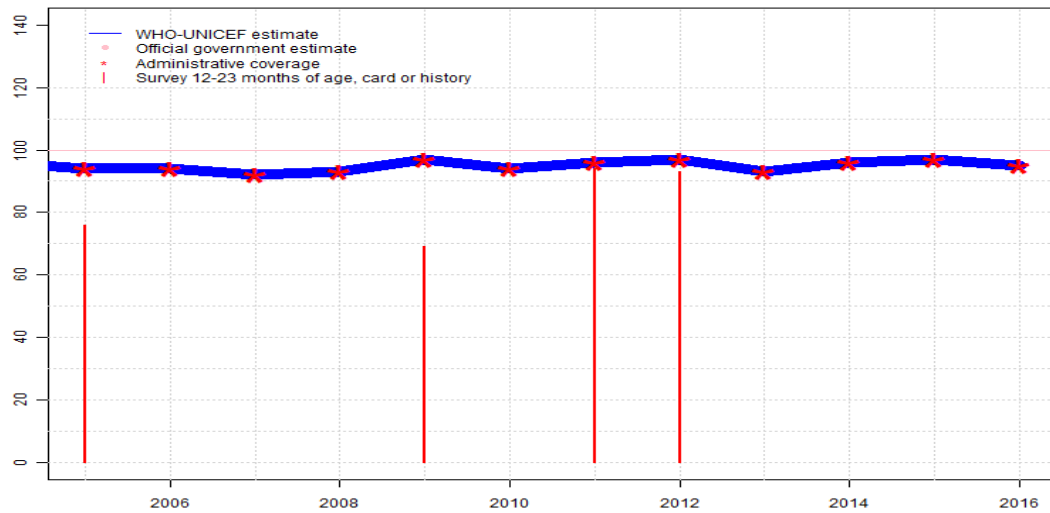
- 2016: Estimate based on reported administrative data. Estimate challenged by: D-
- 2015: Estimate based on reported administrative data. Estimate challenged by: D-
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- 2012: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 90 percent based on 1 survey(s). Viet Nam Multiple Indicator Cluster Survey, 2014 card or history results of 89 percent modified for recall bias to 90 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 89 percent and 3d dose card only coverage of 83 percent. Survey evidence from MICS was based on 94 percent documented evidence from home-based record plus facility-based records. Estimate challenged by: D-
- 2011: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). Viet Nam Multiple Indicator Cluster Survey, 2014 card or history results of 93 percent modified for recall bias to 97 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 84 percent and 3d dose card only coverage of 85 percent. GoC=R+ S+ D+
- 2010: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2009: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 88 percent based on 1 survey(s). Viet Nam Multiple Indicator Cluster Survey 2010–2011 card or history results of 74 percent modified for recall bias to 88 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 50 percent and 3d dose card only coverage of 47 percent. GoC=R+ S+ D+
- 2008: Estimate based on reported administrative data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2009 with results for the 2008 birth cohort. A review of survey methods has concluded that the survey does not provide nationally representative results and therefore is not taken into consideration here. GoC=R+ S+ D+
- 2007: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2006: Estimate based on reported administrative data. GoC=R+ D+
- 2005: Estimate based on reported administrative data. Viet Nam Multiple Indicator Cluster Survey 2006 - MICS3 results ignored by working group. The 2006 MICS survey has a card retention rate of 38.4 percent, affecting the accuracy of results for higher doses of multiple-dose antigens. Viet Nam Multiple Indicator Cluster Survey 2006 - MICS3 card or history results of 79 percent modified for recall bias to 89 percent based on 1st dose

Viet Nam - DTP3

card or history coverage of 94 percent, 1st dose card only coverage of 38 percent and 3d dose card only coverage of 36 percent. GoC=R+ D+

Viet Nam - Pol3

VNM - Pol3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	94	94	92	93	97	94	96	97	93	96	97	95
Estimate GoC	•	•••	•••	•••	•••	•••	•••	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	94	94	92	93	97	94	96	97	93	96	97	95
Survey	76	NA	NA	NA	69	NA	94	93	NA	NA	NA	NA

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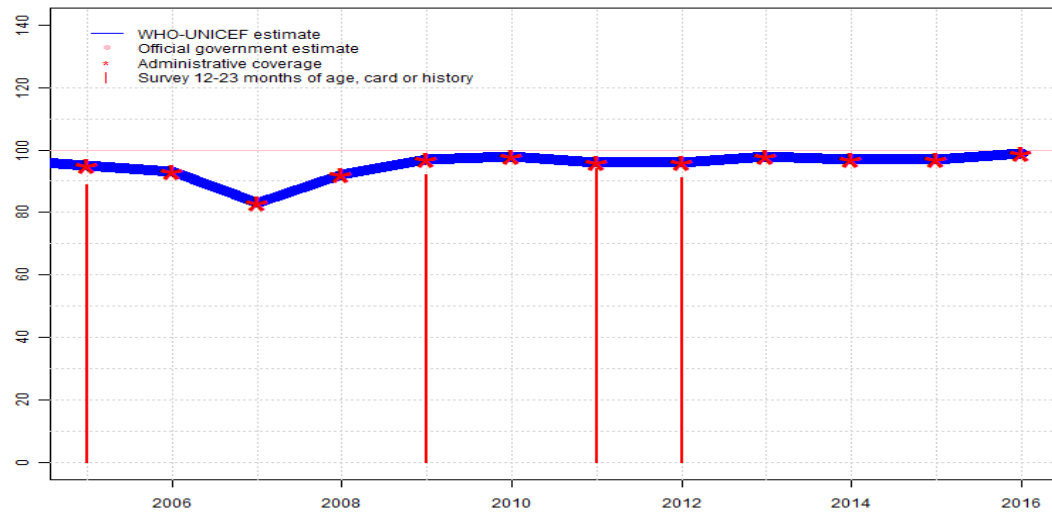
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- 2011: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). Viet Nam Multiple Indicator Cluster Survey, 2014 card or history results of 94 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 87 percent and 3d dose card only coverage of 86 percent. GoC=R+ S+ D+
- 2010: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2009: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 88 percent based on 1 survey(s). Viet Nam Multiple Indicator Cluster Survey 2010–2011 card or history results of 69 percent modified for recall bias to 88 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 47 percent and 3d dose card only coverage of 45 percent. GoC=R+ S+ D+
- 2008: Estimate based on reported administrative data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2009 with results for the 2008 birth cohort. A review of survey methods has concluded that the survey does not provide nationally representative results and therefore is not taken into consideration here. GoC=R+ S+ D+
- 2007: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2006: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2005: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 91 percent based on 1 survey(s). Viet Nam Multiple Indicator Cluster Survey 2006 - MICS3 card or history results of 76 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 38 percent and 3d dose card only coverage of 36 percent. Estimate challenged by: D-

Viet Nam - MCV1

VNM - MCV1



Description:

- 2016: Estimate based on reported administrative data. Estimate challenged by: D-
- 2015: Estimate based on reported administrative data. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2015 with results for the 2013-14 birth cohorts. The survey report notes that the survey was not designed to derive national level coverage estimates and therefore is not taken into consideration here. Estimate challenged by: D-
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- 2007: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2006: Estimate based on reported administrative data. Estimate challenged by: D-
- 2005: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 89 percent based on 1 survey(s). Estimate challenged by: D-

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	95	93	83	92	97	98	96	96	98	97	97	99
Estimate GoC	•	•	•••	•	•••	•••	•••	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	95	93	83	92	97	98	96	96	98	97	97	99
Survey	89	NA	NA	NA	92	NA	94	91	NA	NA	NA	NA

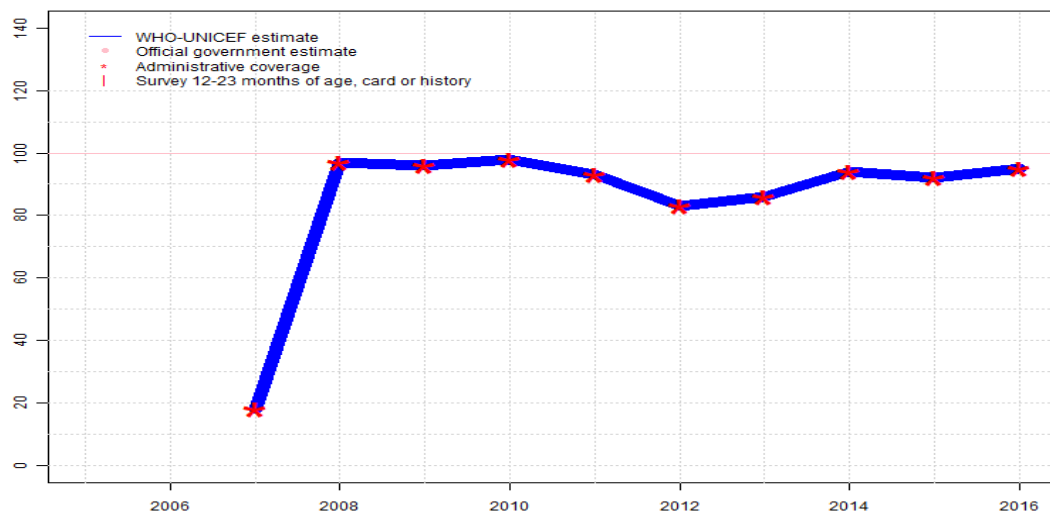
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Viet Nam - MCV2

VNM - MCV2



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	18	97	96	98	93	83	86	94	92	95
Estimate GoC	NA	NA	••	••	••	••	••	••	••	•	••	••
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	18	97	96	98	93	83	86	94	92	95
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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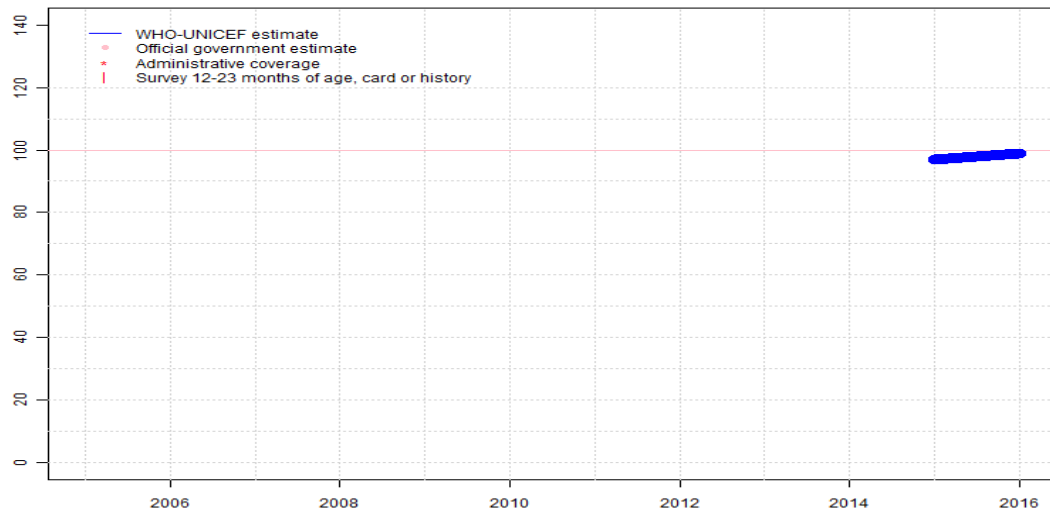
Description:

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

- 2016: Estimate based on reported administrative estimate. GoC=R+ D+
- 2015: Estimate based on reported administrative estimate. GoC=R+ D+
- 2014: Estimate based on reported administrative estimate. Estimate challenged by: D-
- 2013: Estimate based on reported administrative estimate. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2015 with results for the 2013-14 birth cohorts. The survey report notes that the survey was not designed to derive national level coverage estimates and therefore is not taken into consideration here. GoC=R+ D+
- 2012: Estimate based on reported administrative estimate. Survey evidence from MICS was based on 94 percent documented evidence from home-based record plus facility-based records. GoC=R+ D+
- 2011: Estimate based on reported administrative estimate. GoC=R+ D+
- 2010: Estimate based on reported administrative estimate. GoC=R+ D+
- 2009: Estimate based on reported administrative estimate. GoC=R+ D+
- 2008: Estimate based on reported administrative estimate. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2009 with results for the 2008 birth cohort. A review of survey methods has concluded that the survey does not provide nationally representative results and therefore is not taken into consideration here. GoC=R+ D+
- 2007: Estimate based on reported administrative estimate. GoC=R+ D+

Viet Nam - RCV1

VNM - RCV1



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. Estimate challenged by: D-

2015: Estimate based on estimated MCV1. MR vaccine introduced in 2015. Estimate challenged by: D-

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97	99
Estimate GoC	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

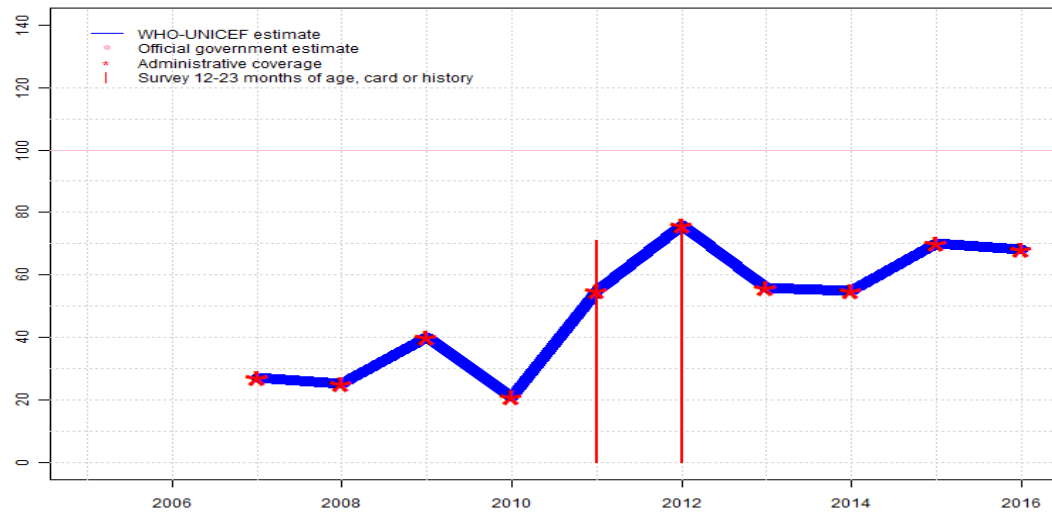
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Viet Nam - HepBB

VNM - HepBB



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	27	25	40	21	55	76	56	55	70	68
Estimate GoC	NA	NA	••	••	••	•	•	•••	•	•	••	••
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	27	25	40	21	55	76	56	55	70	68
Survey	NA	NA	NA	NA	NA	NA	71	78	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.

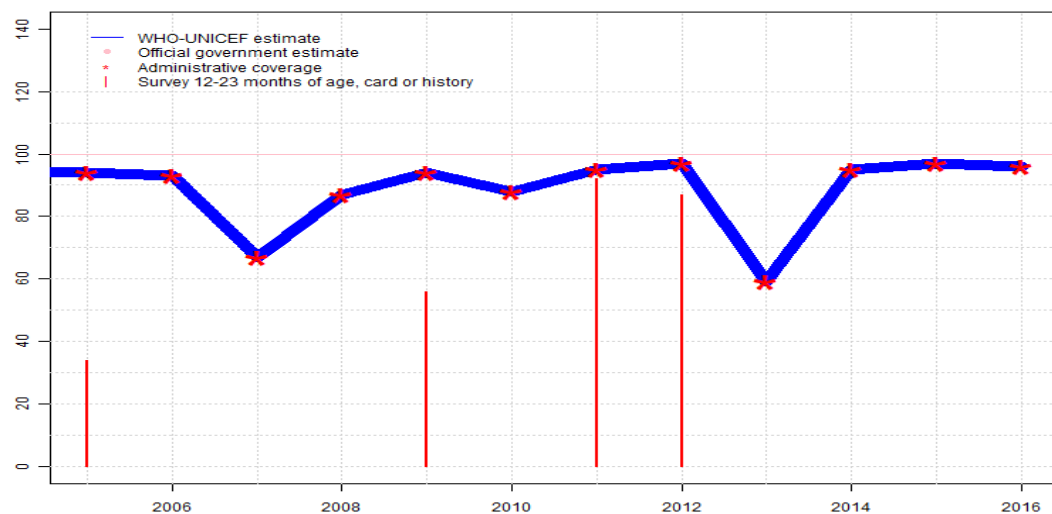
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on reported administrative data. GoC=R+ D+
- 2015: Estimate based on reported administrative data. Reported data suggests recovery from service disruption following adverse events in prior years. Programme reports intensified efforts to improve reach of HepB birth dose including use of monovalent HepB vaccine out of the cold chain as well as additional trainings of health workers and birth attendants. GoC=R+ D+
- 2014: Estimate based on reported administrative data. Estimate challenged by: S-
- 2013: Estimate based on reported administrative data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2015 with results for the 2013-14 birth cohorts. The survey report notes that the survey was not designed to derive national level coverage estimates and therefore is not taken into consideration here. Decline in coverage due to suspension of DTP-HepB-Hib pentavalent vaccine at national level for 5 months following adverse events. Estimate challenged by: S-
- 2012: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 78 percent based on 1 survey(s). Survey evidence from MICS was based on 94 percent documented evidence from home-based record plus facility-based records. Estimate based on reported coverage data. GoC=R+ S+ D+
- 2011: Estimate based on reported data. Viet Nam Multiple Indicator Cluster Survey, 2014 results ignored by working group. Survey evidence for 2011 birth cohort likely reflects intensification activities occurring in the alter half of 2011 that are also observed for the 2012 birth cohort. Estimate challenged by: S-
- 2010: Estimate based on reported data. Decline in coverage reflects suspension of vaccination following adverse event. Estimate challenged by: S-
- 2009: Estimate based on reported data. Estimate based on reported coverage data. GoC=R+ D+
- 2008: Estimate based on reported data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2009 with results for the 2008 birth cohort. A review of survey methods has concluded that the survey does not provide nationally representative results and therefore is not taken into consideration here. GoC=R+ D+
- 2007: Estimate based on reported data. GoC=R+ D+

Viet Nam - HepB3

VNM - HepB3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	94	93	67	87	94	88	95	97	59	95	97	96
Estimate GoC	••	•	••	••	•••	•••	•••	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	94	93	67	87	94	88	95	97	59	95	97	96
Survey	34	NA	NA	NA	56	NA	92	87	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:

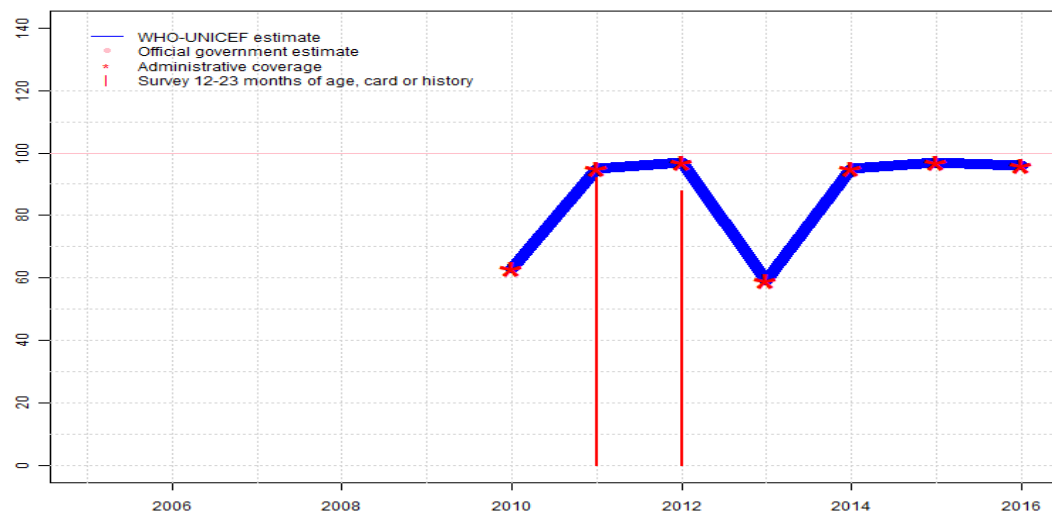
- 2016: Estimate based on reported administrative data. Estimate challenged by: D-
- 2015: Estimate based on reported administrative data. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Recovery in coverage following suspension of DTP-HepB-Hib pentavalent vaccine at national level for 5 months following adverse events. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2015 with results for the 2013-14 birth cohorts. The survey report notes that the survey was not designed to derive national level coverage estimates and therefore is not taken into consideration here. Decline in coverage due to suspension of DTP-HepB-Hib pentavalent vaccine at national level for 5 months following adverse events. Estimate challenged by: S-
- 2012: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 89 percent based on 1 survey(s). Viet Nam Multiple Indicator Cluster Survey, 2014 card or history results of 87 percent modified for recall bias to 89 percent based on 1st dose card or history coverage of 95 percent, 1st dose card only coverage of 88 percent and 3d dose card only coverage of 82 percent. Survey evidence from MICS was based on 94 percent documented evidence from home-based record plus facility-based records. Estimate challenged by: D-
- 2011: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). Viet Nam Multiple Indicator Cluster Survey, 2014 card or history results of 92 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 95 percent, 1st dose card only coverage of 81 percent and 3d dose card only coverage of 82 percent. GoC=R+ S+ D+
- 2010: Estimate based on reported data. GoC=R+ S+ D+
- 2009: Estimate based on reported data. Viet Nam Multiple Indicator Cluster Survey 2010–2011 results ignored by working group. Survey results likely too low due to confusion of monovalent HepB and pentavalent doses. Viet Nam Multiple Indicator Cluster Survey 2010–2011 card or history results of 56 percent modified for recall bias to 73 percent based on 1st dose card or history coverage of 91 percent, 1st dose card only coverage of 50 percent and 3d dose card only coverage of 40 percent. GoC=R+ S+ D+
- 2008: Estimate based on reported data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2009 with results for the 2008 birth cohort. A review of survey methods has concluded that the survey does not provide nationally representative results and therefore is not taken into consideration here. GoC=R+ D+
- 2007: Estimate based on reported data. There was a stock-out of one month in 2007. GoC=R+ D+
- 2006: Estimate based on reported data. Estimate challenged by: D-
- 2005: Estimate based on reported data. Viet Nam Multiple Indicator Cluster Survey 2006 - MICS3 results ignored by working group. The 2006 MICS survey has a card retention rate of 38.4 percent, affecting the accuracy of results for higher doses of multiple-dose antigens. Viet Nam Multiple Indicator Cluster Survey 2006 - MICS3 card or history re-

Viet Nam - HepB3

sults of 34 percent modified for recall bias to 36 percent based on 1st dose card or history coverage of 38 percent, 1st dose card only coverage of 36 percent and 3d dose card only coverage of 34 percent. GoC=R+ D+

Viet Nam - Hib3

VNM - Hib3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	63	95	97	59	95	97	96
Estimate GoC	NA	NA	NA	NA	NA	•	•••	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	63	95	97	59	95	97	96
Survey	NA	NA	NA	NA	NA	NA	92	88	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.

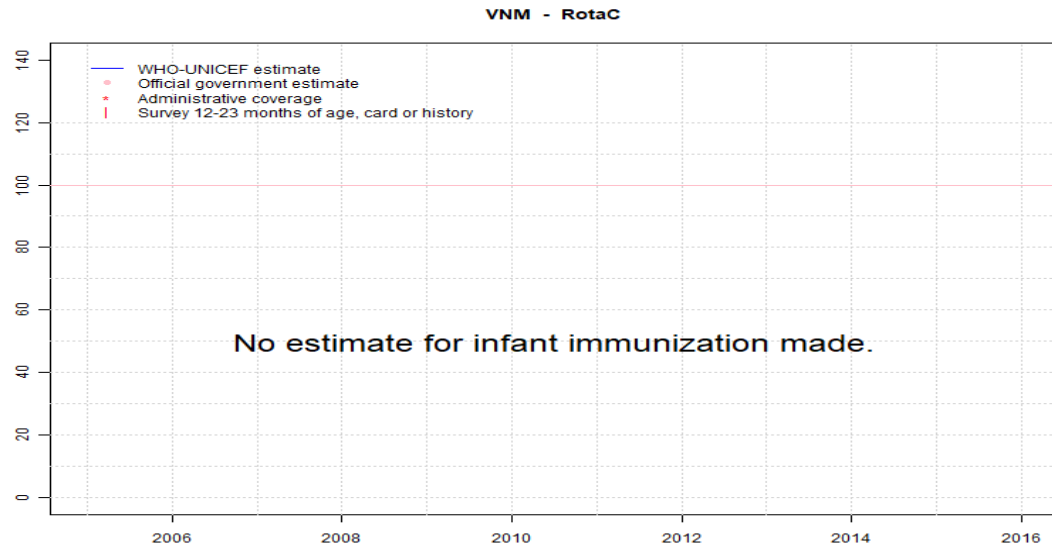
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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 reported administrative data. Estimate challenged by: D-
- 2015: Estimate based on reported administrative data. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Recovery in coverage following suspension of DTP-HepB-Hib pentavalent vaccine at national level for 5 months following adverse events. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. WHO and UNICEF are aware of the conduct of a subnational EPI coverage survey conducted in 2015 with results for the 2013-14 birth cohorts. The survey report notes that the survey was not designed to derive national level coverage estimates and therefore is not taken into consideration here. Decline in coverage due to suspension of DTP-HepB-Hib pentavalent vaccine at national level for 5 months following adverse events. Estimate challenged by: S-
- 2012: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 88 percent based on 1 survey(s). Survey evidence from MICS was based on 94 percent documented evidence from home-based record plus facility-based records. Estimate challenged by: D-
- 2011: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). Viet Nam Multiple Indicator Cluster Survey, 2014 card or history results of 92 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 95 percent, 1st dose card only coverage of 83 percent and 3d dose card only coverage of 84 percent. GoC=R+ S+ D+
- 2010: Estimate based on reported data. Hib vaccine introduced in 2010. Vaccine presentation is DTP-HepB-Hib. Estimate challenged by: S-

Viet Nam - RotaC

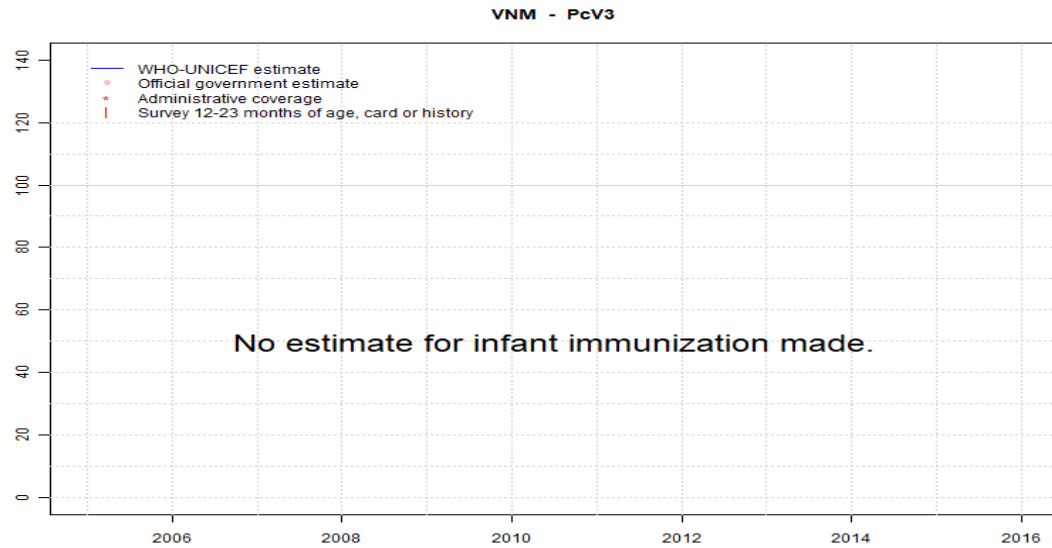


	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.



	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.

Viet Nam - survey details

2012 Viet Nam Multiple Indicator Cluster Survey, 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	98	12-23 m	790	94
BCG	Card	93	12-23 m	790	94
BCG	Card or History	98	12-23 m	790	94
BCG	History	5	12-23 m	790	94
DTP1	C or H <12 months	96	12-23 m	790	94
DTP1	Card	89	12-23 m	790	94
DTP1	Card or History	96	12-23 m	790	94
DTP1	History	7	12-23 m	790	94
DTP3	C or H <12 months	89	12-23 m	790	94
DTP3	Card	83	12-23 m	790	94
DTP3	Card or History	89	12-23 m	790	94
DTP3	History	5	12-23 m	790	94
HepB1	C or H <12 months	95	12-23 m	790	94
HepB1	Card	88	12-23 m	790	94
HepB1	Card or History	95	12-23 m	790	94
HepB1	History	7	12-23 m	790	94
HepB3	C or H <12 months	87	12-23 m	790	94
HepB3	Card	82	12-23 m	790	94
HepB3	Card or History	87	12-23 m	790	94
HepB3	History	5	12-23 m	790	94
HepBB	C or H <12 months	78	12-23 m	790	94
HepBB	Card	71	12-23 m	790	94
HepBB	Card or History	78	12-23 m	790	94
HepBB	History	8	12-23 m	790	94
Hib1	C or H <12 months	95	12-23 m	790	94
Hib1	Card	89	12-23 m	790	94
Hib1	Card or History	95	12-23 m	790	94
Hib1	History	6	12-23 m	790	94
Hib3	C or H <12 months	88	12-23 m	790	94
Hib3	Card	82	12-23 m	790	94
Hib3	Card or History	88	12-23 m	790	94
Hib3	History	5	12-23 m	790	94
MCV1	C or H <12 months	86	12-23 m	790	94
MCV1	Card	86	12-23 m	790	94
MCV1	Card or History	91	12-23 m	790	94
MCV1	History	5	12-23 m	790	94
Pol1	C or H <12 months	97	12-23 m	790	94

Pol1	Card	92	12-23 m	790	94
Pol1	Card or History	97	12-23 m	790	94
Pol1	History	5	12-23 m	790	94
Pol3	C or H <12 months	92	12-23 m	790	94
Pol3	Card	89	12-23 m	790	94
Pol3	Card or History	93	12-23 m	790	94
Pol3	History	4	12-23 m	790	94

2011 Viet Nam Multiple Indicator Cluster Survey, 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	97	24-35 m	641	94
BCG	Card	87	24-35 m	641	94
BCG	Card or History	98	24-35 m	641	94
BCG	History	10	24-35 m	641	94
DTP1	C or H <12 months	96	24-35 m	641	94
DTP1	Card	84	24-35 m	641	94
DTP1	Card or History	96	24-35 m	641	94
DTP1	History	12	24-35 m	641	94
DTP3	C or H <12 months	93	24-35 m	641	94
DTP3	Card	85	24-35 m	641	94
DTP3	Card or History	93	24-35 m	641	94
DTP3	History	9	24-35 m	641	94
HepB1	C or H <12 months	95	24-35 m	641	94
HepB1	Card	81	24-35 m	641	94
HepB1	Card or History	95	24-35 m	641	94
HepB1	History	14	24-35 m	641	94
HepB3	C or H <12 months	92	24-35 m	641	94
HepB3	Card	82	24-35 m	641	94
HepB3	Card or History	92	24-35 m	641	94
HepB3	History	10	24-35 m	641	94
HepBB	C or H <12 months	71	24-35 m	641	94
HepBB	Card	62	24-35 m	641	94
HepBB	Card or History	71	24-35 m	641	94
HepBB	History	9	24-35 m	641	94
Hib1	C or H <12 months	95	24-35 m	641	94
Hib1	Card	83	24-35 m	641	94
Hib1	Card or History	95	24-35 m	641	94
Hib1	History	12	24-35 m	641	94

Viet Nam - survey details

Hib3	C or H <12 months	92	24-35 m	641	94
Hib3	Card	84	24-35 m	641	94
Hib3	Card or History	92	24-35 m	641	94
Hib3	History	8	24-35 m	641	94
MCV1	C or H <12 months	89	24-35 m	641	94
MCV1	Card	86	24-35 m	641	94
MCV1	Card or History	94	24-35 m	641	94
MCV1	History	8	24-35 m	641	94
Pol1	C or H <12 months	96	24-35 m	641	94
Pol1	Card	87	24-35 m	641	94
Pol1	Card or History	97	24-35 m	641	94
Pol1	History	10	24-35 m	641	94
Pol3	C or H <12 months	92	24-35 m	641	94
Pol3	Card	86	24-35 m	641	94
Pol3	Card or History	94	24-35 m	641	94
Pol3	History	8	24-35 m	641	94

HepB3	History	16	12-23 m	759	52
MCV1	C or H <12 months	84	12-23 m	759	52
MCV1	Card	47	12-23 m	759	52
MCV1	Card or History	92	12-23 m	759	52
MCV1	History	45	12-23 m	759	52
Pol1	C or H <12 months	91	12-23 m	759	52
Pol1	Card	47	12-23 m	759	52
Pol1	Card or History	92	12-23 m	759	52
Pol1	History	44	12-23 m	759	52
Pol3	C or H <12 months	68	12-23 m	759	52
Pol3	Card	45	12-23 m	759	52
Pol3	Card or History	69	12-23 m	759	52
Pol3	History	24	12-23 m	759	52

2005 Dieu tra đánh giá các mục tiêu về trẻ em và phụ nữ Viet Nam 2006

2009 Viet Nam Multiple Indicator Cluster Survey 2010–2011

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	95	12-23 m	759	52
BCG	Card	50	12-23 m	759	52
BCG	Card or History	96	12-23 m	759	52
BCG	History	45	12-23 m	759	52
DTP1	C or H <12 months	94	12-23 m	759	52
DTP1	Card	50	12-23 m	759	52
DTP1	Card or History	94	12-23 m	759	52
DTP1	History	44	12-23 m	759	52
DTP3	C or H <12 months	73	12-23 m	759	52
DTP3	Card	47	12-23 m	759	52
DTP3	Card or History	74	12-23 m	759	52
DTP3	History	27	12-23 m	759	52
HepB1	C or H <12 months	90	12-23 m	759	52
HepB1	Card	50	12-23 m	759	52
HepB1	Card or History	91	12-23 m	759	52
HepB1	History	41	12-23 m	759	52
HepB3	C or H <12 months	53	12-23 m	759	52
HepB3	Card	40	12-23 m	759	52
HepB3	Card or History	56	12-23 m	759	52

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	94	12-23 m	555	38
BCG	Card	38	12-23 m	555	38
BCG	Card or History	95	12-23 m	555	38
BCG	History	57	12-23 m	555	38
DTP1	C or H <12 months	92	12-23 m	555	38
DTP1	Card	38	12-23 m	555	38
DTP1	Card or History	94	12-23 m	555	38
DTP1	History	56	12-23 m	555	38
DTP3	C or H <12 months	76	12-23 m	555	38
DTP3	Card	36	12-23 m	555	38
DTP3	Card or History	79	12-23 m	555	38
DTP3	History	43	12-23 m	555	38
HepB1	C or H <12 months	37	12-23 m	555	38
HepB1	Card	36	12-23 m	555	38
HepB1	Card or History	38	12-23 m	555	38
HepB1	History	1	12-23 m	555	38
HepB3	C or H <12 months	32	12-23 m	555	38
HepB3	Card	34	12-23 m	555	38
HepB3	Card or History	34	12-23 m	555	38
HepB3	History	0	12-23 m	555	38
MCV1	C or H <12 months	87	12-23 m	555	38
MCV1	Card	34	12-23 m	555	38

Viet Nam - survey details

MCV1	Card or History	89	12-23 m	555	38
MCV1	History	55	12-23 m	555	38
Pol1	C or H <12 months	94	12-23 m	555	38
Pol1	Card	38	12-23 m	555	38
Pol1	Card or History	96	12-23 m	555	38
Pol1	History	58	12-23 m	555	38
Pol3	C or H <12 months	74	12-23 m	555	38
Pol3	Card	36	12-23 m	555	38
Pol3	Card or History	76	12-23 m	555	38
Pol3	History	39	12-23 m	555	38

MCV1	History	47	12-23 m	457	40
Pol1	Card	39	12-23 m	457	40
Pol1	Card or History	93	12-23 m	457	40
Pol1	History	54	12-23 m	457	40
Pol3	Card	36	12-23 m	457	40
Pol3	Card or History	76	12-23 m	457	40
Pol3	History	39	12-23 m	457	40

2001 Vietnam Demographic and Health Survey 2002, 2003

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	93	12-23 m	457	40
BCG	History	54	12-23 m	457	40
DTP1	Card	38	12-23 m	457	40
DTP1	Card or History	88	12-23 m	457	40
DTP1	History	50	12-23 m	457	40
DTP3	Card	35	12-23 m	457	40
DTP3	Card or History	72	12-23 m	457	40
DTP3	History	38	12-23 m	457	40
MCV1	Card	36	12-23 m	457	40
MCV1	Card or History	83	12-23 m	457	40

2000 Children Indicators in Vietnam 2001, 2002

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	97	12-23 m	-	-
DTP3	Card or History	96	12-23 m	-	-
MCV1	Card or History	98	12-23 m	-	-
Pol3	Card or History	96	12-23 m	-	-

1997 EPI Review Vietnam 1998

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	94	12-23 m	1057	-
BCG	Card or History	96	12-23 m	1057	-

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