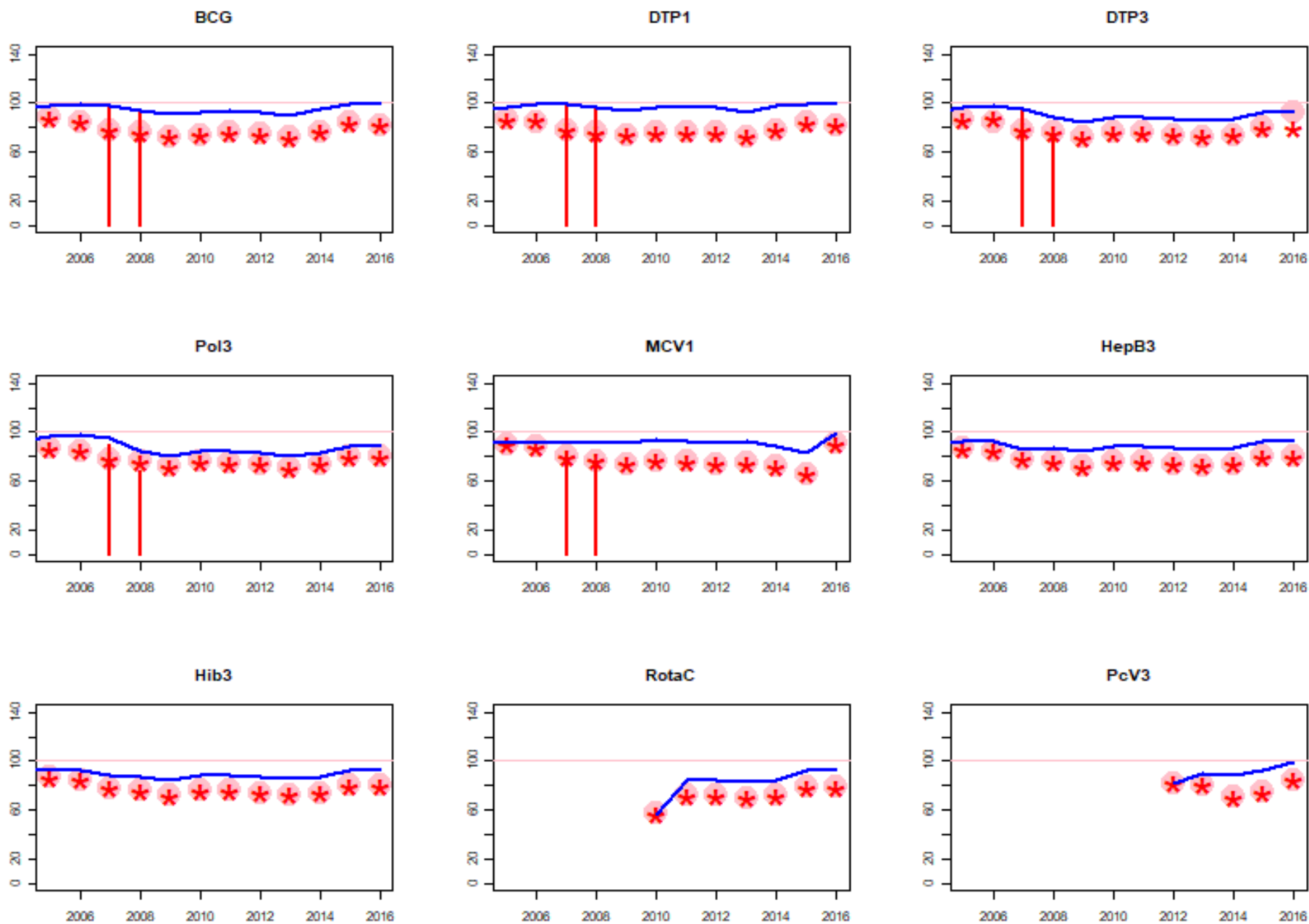


Paraguay: WHO and UNICEF estimates of immunization coverage: 2016 revision



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.

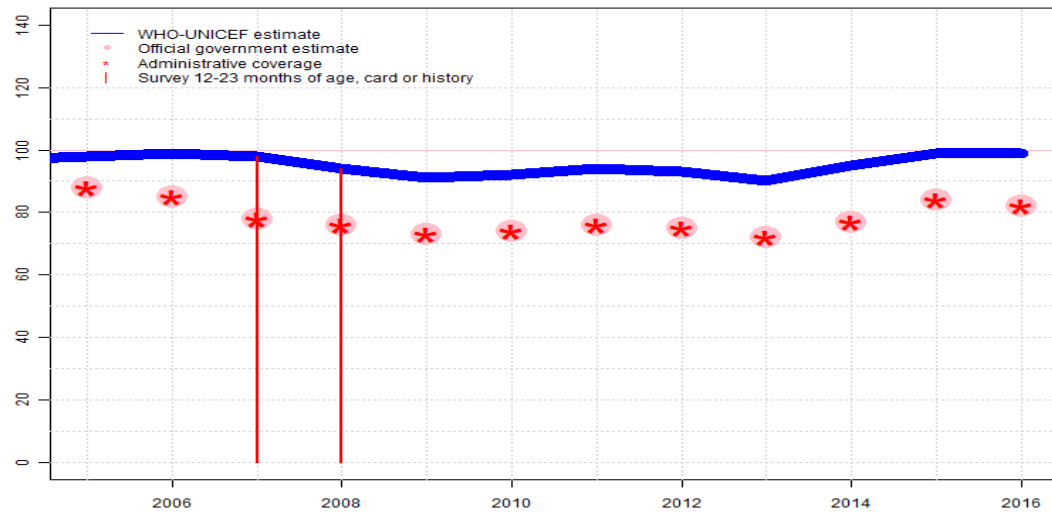
PcV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect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

PRY - BCG



Description:

- 2016: Reported data calibrated to 2008 levels. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2008 levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2008 levels. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2008 levels. Estimate challenged by: D-R-
- 2012: Reported data calibrated to 2008 levels. Estimate challenged by: D-R-
- 2011: Reported data calibrated to 2008 levels. Estimate challenged by: D-R-
- 2010: Reported data calibrated to 2008 levels. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Estimate challenged by: D-R-
- 2009: Reported data calibrated to 2008 levels. An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office. Estimate challenged by: D-R-
- 2008: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 94 percent based on 1 survey(s). Estimate challenged by: D-R-
- 2007: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 98 percent based on 1 survey(s). Estimate challenged by: D-R-
- 2006: Reported data calibrated to 2003 and 2007 levels. Estimate challenged by: R-
- 2005: Reported data calibrated to 2003 and 2007 levels. Estimate challenged by: R-

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	98	99	98	94	91	92	94	93	90	95	99	99
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	88	85	78	76	73	74	76	75	72	77	84	82
Administrative	88	85	78	76	73	74	76	75	72	77	84	82
Survey	NA	NA	98	94	NA	NA	NA	NA	NA	NA	NA	NA

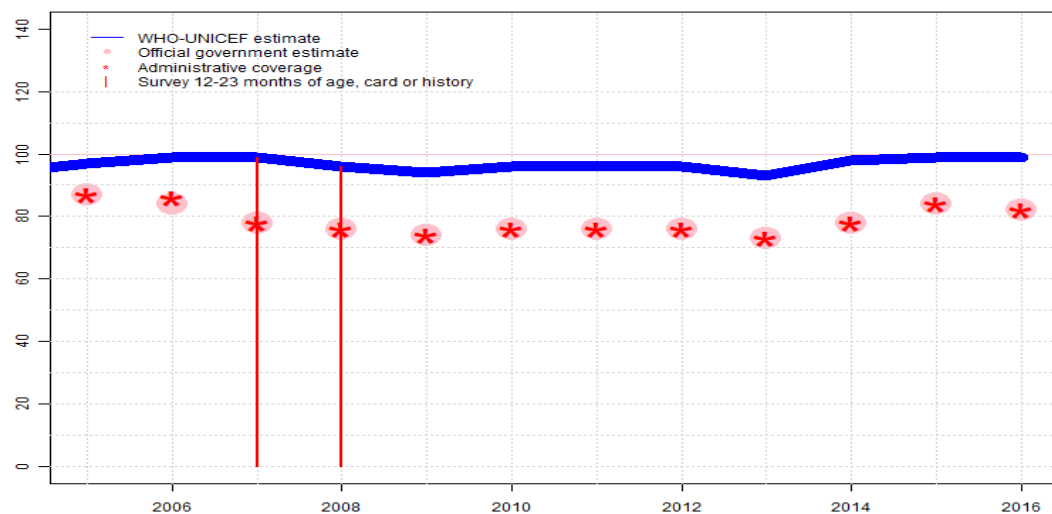
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Paraguay - DTP1

PRY - DTP1



Description:

- 2016: Reported data calibrated to 2008 levels. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2008 levels. Programme reports one month national level stock-out of DTP containing vaccine. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2008 levels. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2008 levels. Estimate challenged by: D-R-
- 2012: Reported data calibrated to 2008 levels. Estimate challenged by: D-R-
- 2011: Reported data calibrated to 2008 levels. Estimate challenged by: D-R-
- 2010: Reported data calibrated to 2008 levels. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Estimate challenged by: D-R-
- 2009: Reported data calibrated to 2008 levels. An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office. Estimate challenged by: D-R-
- 2008: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 96 percent based on 1 survey(s). Estimate challenged by: D-R-
- 2007: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 99 percent based on 1 survey(s). Estimate challenged by: D-R-
- 2006: Reported data calibrated to 2003 and 2007 levels. Estimate challenged by: R-
- 2005: Reported data calibrated to 2003 and 2007 levels. Estimate challenged by: R-

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	97	99	99	96	94	96	96	96	93	98	99	99
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	87	84	78	76	74	76	76	76	73	78	84	82
Administrative	87	86	78	76	74	76	76	76	73	78	84	82
Survey	NA	NA	99	96	NA	NA	NA	NA	NA	NA	NA	NA

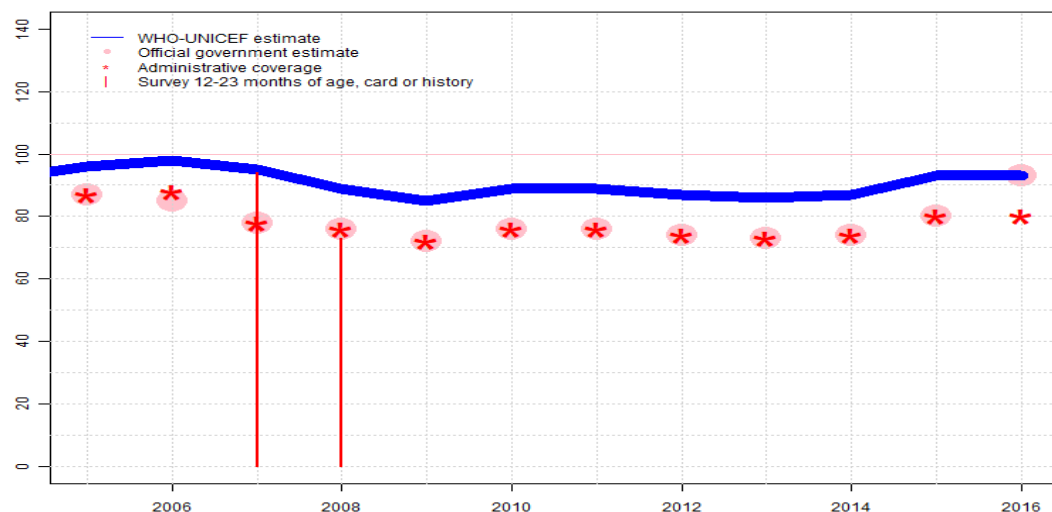
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Paraguay - DTP3

PRY - DTP3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	96	98	95	89	85	89	89	87	86	87	93	93
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	87	85	78	76	72	76	76	74	73	74	80	93
Administrative	87	88	78	76	72	76	76	74	73	74	80	80
Survey	NA	NA	94	73	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.

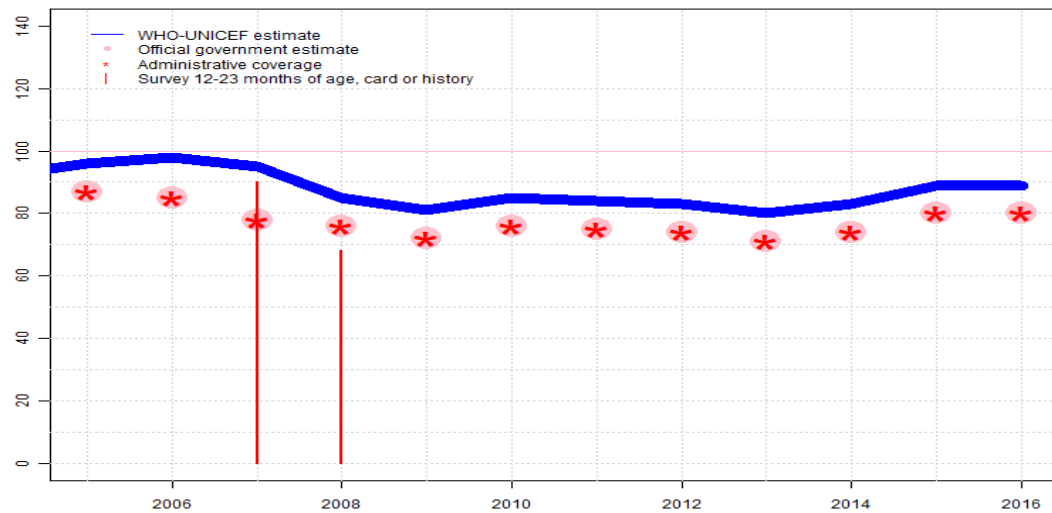
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Reported data calibrated to 2008 levels. Reported data excluded due to unexplained sudden change in coverage from 80 level to 93 percent. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2008 levels. Programme reports one month national level stock-out of DTP containing vaccine. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2008 levels. Estimate challenged by: R-
- 2013: Reported data calibrated to 2008 levels. Estimate challenged by: R-
- 2012: Reported data calibrated to 2008 levels. Estimate challenged by: R-
- 2011: Reported data calibrated to 2008 levels. Estimate challenged by: R-
- 2010: Reported data calibrated to 2008 levels. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Estimate challenged by: R-
- 2009: Reported data calibrated to 2008 levels. An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office. Estimate challenged by: R-
- 2008: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 89 percent based on 1 survey(s). Continuous Demographic and Health Survey 2009 card or history results of 73 percent modified for recall bias to 89 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 65 percent and 3d dose card only coverage of 60 percent. Estimate challenged by: R-
- 2007: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 95 percent based on 1 survey(s). Survey of Demography and Reproductive and Sexual Health, ENDSSR-2008 card or history results of 94 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 71 percent and 3d dose card only coverage of 68 percent. Estimate challenged by: R-
- 2006: Reported data calibrated to 2003 and 2007 levels. Estimate challenged by: R-
- 2005: Reported data calibrated to 2003 and 2007 levels. Estimate challenged by: R-S-

Paraguay - Pol3

PRY - Pol3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	96	98	95	85	81	85	84	83	80	83	89	89
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	87	85	78	76	72	76	75	74	71	74	80	80
Administrative	87	85	78	76	72	76	75	74	71	74	80	80
Survey	NA	NA	90	68	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.

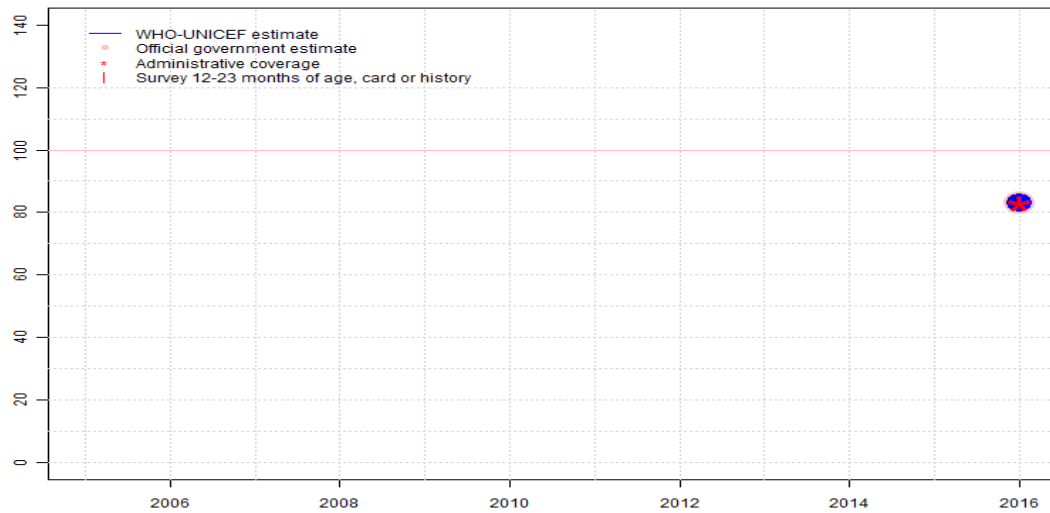
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Reported data calibrated to 2008 levels. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Estimate challenged by: R-
- 2015: Reported data calibrated to 2008 levels. Estimate challenged by: R-
- 2014: Reported data calibrated to 2008 levels. Estimate challenged by: R-
- 2013: Reported data calibrated to 2008 levels. Estimate challenged by: R-
- 2012: Reported data calibrated to 2008 levels. Estimate challenged by: R-
- 2011: Reported data calibrated to 2008 levels. Estimate challenged by: R-
- 2010: Reported data calibrated to 2008 levels. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Estimate challenged by: R-
- 2009: Reported data calibrated to 2008 levels. An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office. Estimate challenged by: R-S-
- 2008: Estimate of 85 percent assigned by working group. Estimate based on Survey results. Continuous Demographic and Health Survey 2009 card or history results of 68 percent modified for recall bias to 85 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 63 percent and 3d dose card only coverage of 58 percent. Estimate challenged by: R-
- 2007: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 95 percent based on 1 survey(s). Survey of Demography and Reproductive and Sexual Health, ENDSSR-2008 card or history results of 90 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 68 percent and 3d dose card only coverage of 67 percent. Estimate challenged by: R-
- 2006: Reported data calibrated to 2003 and 2007 levels. Estimate challenged by: R-S-
- 2005: Reported data calibrated to 2003 and 2007 levels. Estimate challenged by: R-S-

Paraguay - IPV1

PRY - IPV1



Description:

2016: Estimate based on coverage reported by national government. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Inactivated polio vaccine introduced during 2015. Reporting began in 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	83
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	83
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

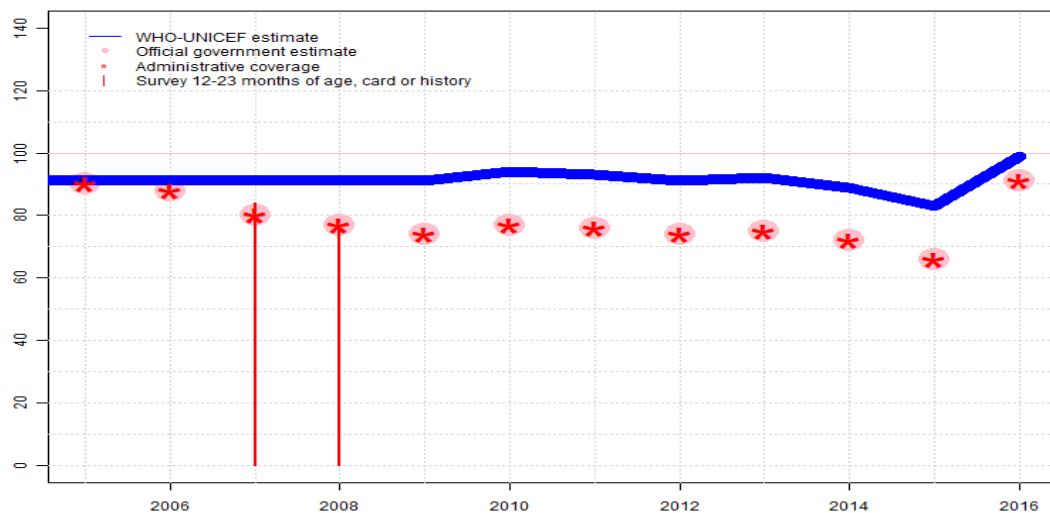
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Paraguay - MCV1

PRY - MCV1



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	91	91	91	91	91	94	93	91	92	89	83	99
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	90	88	80	77	74	77	76	74	75	72	66	91
Administrative	90	88	80	77	74	77	76	74	75	72	66	91
Survey	NA	NA	84	76	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.

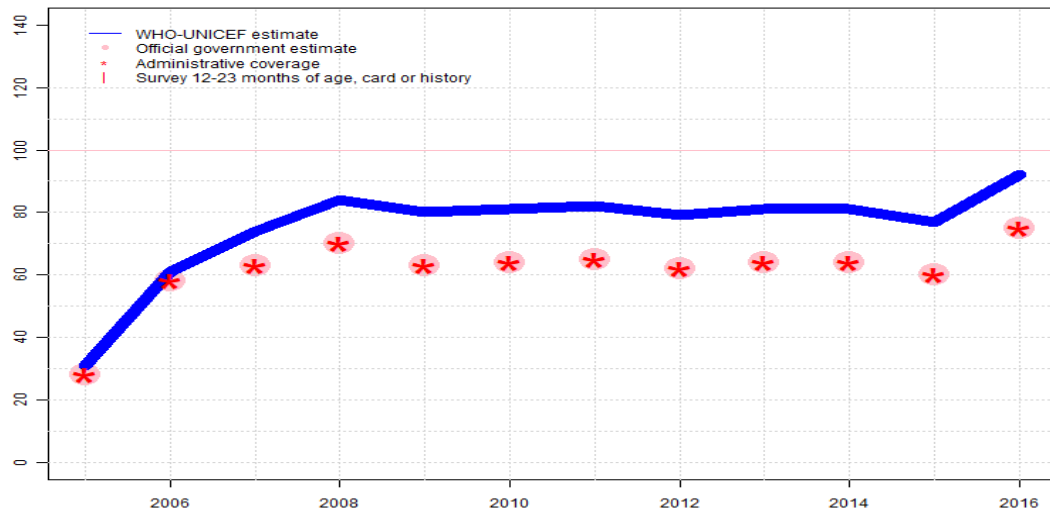
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Reported data calibrated to 2009 levels. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Increase in coverage reflects recovery following stock-out. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2009 levels. Programme reports three month national level stock-out. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2013: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2012: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2011: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2010: Reported data calibrated to 2009 levels. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Estimate challenged by: R-
- 2009: Estimate of 91 percent assigned by working group. Administrative coverage based on population estimate under review. An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office. Estimate challenged by: D-R-
- 2008: Estimate based on interpolation between 2003 and 2009 levels. Estimate based on 2003 reported data. 2003 reported data supported by survey for other vaccines. Continuous Demographic and Health Survey 2009 results ignored by working group. Measles vaccine is recommended at 12-23 months of age. Survey results underestimate coverage. Estimate challenged by: R-
- 2007: Estimate based on interpolation between 2003 and 2009 levels. Estimate based on 2003 reported data. 2003 reported data supported by survey for other vaccines. Survey of Demography and Reproductive and Sexual Health, ENDSSR-2008 results ignored by working group. Measles vaccine is recommended at 12-23 months of age. Survey results underestimate coverage. Estimate challenged by: R-
- 2006: Estimate based on interpolation between 2003 and 2009 levels. Estimate based on 2003 reported data. 2003 reported data supported by survey for other vaccines. Estimate challenged by: R-
- 2005: Estimate based on interpolation between 2003 and 2009 levels. Estimate based on 2003 reported data. 2003 reported data supported by survey for other vaccines. Estimate challenged by: R-

Paraguay - MCV2

PRY - MCV2



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	31	61	74	84	80	81	82	79	81	81	77	92
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	28	58	63	70	63	64	65	62	64	64	60	75
Administrative	28	58	63	70	63	64	65	62	64	64	60	75
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.

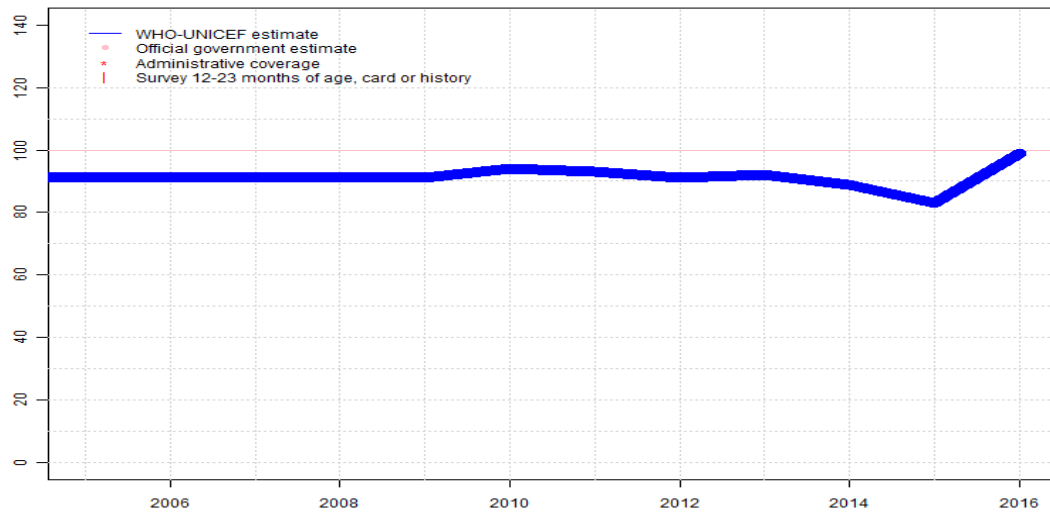
Description:

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

- 2016: Reported data calibrated to 2013 levels. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Increase in coverage reflects recovery following stock-out. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2013 levels. Programme reports three month national level stock-out. Estimate challenged by: R-
- 2014: Reported data calibrated to 2013 levels. Estimate challenged by: D-R-
- 2013: Estimate of 81 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Estimate challenged by: D-R-
- 2012: Estimate of 79 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Estimate challenged by: D-R-
- 2011: Estimate of 82 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Estimate challenged by: D-R-
- 2010: Estimate of 81 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Estimate challenged by: D-R-
- 2009: Estimate of 80 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office. Estimate challenged by: D-R-
- 2008: Estimate of 84 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Estimate challenged by: R-
- 2007: Estimate of 74 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Estimate challenged by: R-
- 2006: Estimate of 61 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Estimate challenged by: R-
- 2005: Reported data calibrated to 2006 levels. MCV second dose introduced during 2004, reporting started in 2005 Estimate challenged by: R-

Paraguay - RCV1

PRY - RCV1



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	91	91	91	91	91	94	93	91	92	89	83	99
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. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Estimate challenged by: D-R-

2015: Estimate based on estimated MCV1. Programme reports three month national level stock-out. Estimate challenged by: D-R-

2014: Estimate based on estimated MCV1. Estimate challenged by: R-

2013: Estimate based on estimated MCV1. Estimate challenged by: R-

2012: Estimate based on estimated MCV1. Estimate challenged by: R-

2011: Estimate based on estimated MCV1. Estimate challenged by: R-

2010: Estimate based on estimated MCV1. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Estimate challenged by: R-

2009: Estimate based on estimated MCV1. An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office. Estimate challenged by: D-R-

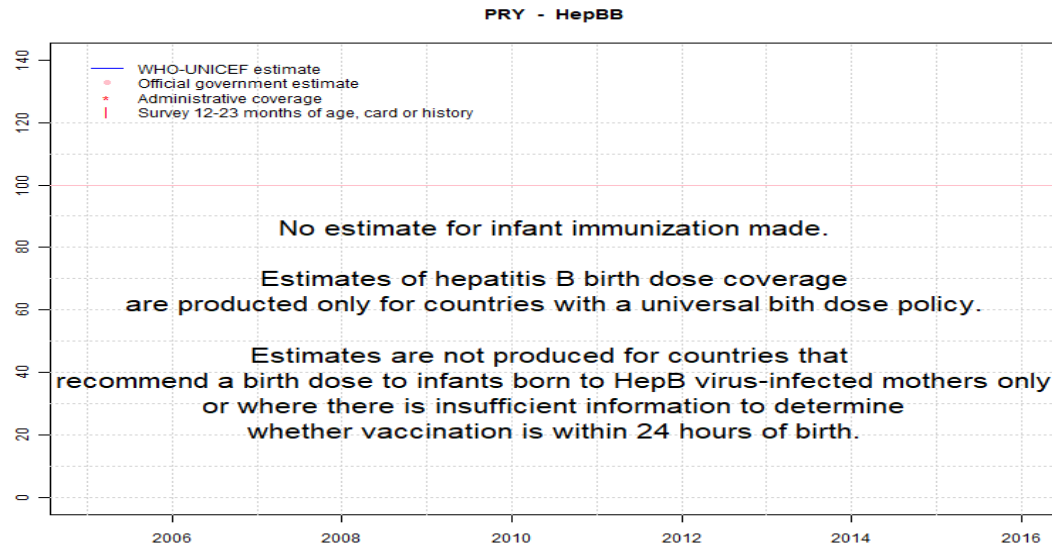
2008: Estimate based on estimated MCV1. Estimate challenged by: R-

2007: Estimate based on estimated MCV1. Estimate challenged by: R-

2006: Estimate based on estimated MCV1. Estimate challenged by: R-

2005: Estimate based on estimated MCV1. Estimate challenged by: R-

Paraguay - HepBB



	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

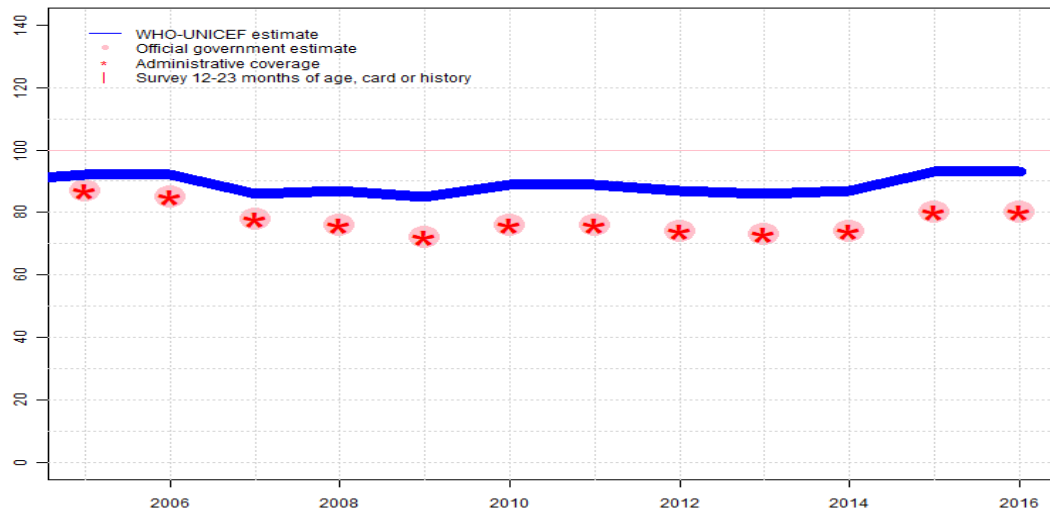
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Paraguay - HepB3

PRY - HepB3



Description:

- 2016: Reported data calibrated to 2009 levels. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2009 levels. Programme reports one month national level stock-out of DTP containing vaccine. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2013: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2012: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2011: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2010: Reported data calibrated to 2009 levels. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Estimate challenged by: R-
- 2009: Estimate of 85 percent assigned by working group. HepB vaccine delivered in combination DTP-HepB-Hib vaccine. Estimate based on DTP3 levels An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office. Estimate challenged by: R-
- 2008: Reported data calibrated to 2003 and 2009 levels. Estimate challenged by: R-
- 2007: Reported data calibrated to 2003 and 2009 levels. Estimate challenged by: R-
- 2006: Reported data calibrated to 2003 and 2009 levels. Estimate challenged by: R-
- 2005: Reported data calibrated to 2003 and 2009 levels. Estimate challenged by: R-

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	92	92	86	87	85	89	89	87	86	87	93	93
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	87	85	78	76	72	76	76	74	73	74	80	80
Administrative	87	85	78	76	72	76	76	74	73	74	80	80
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

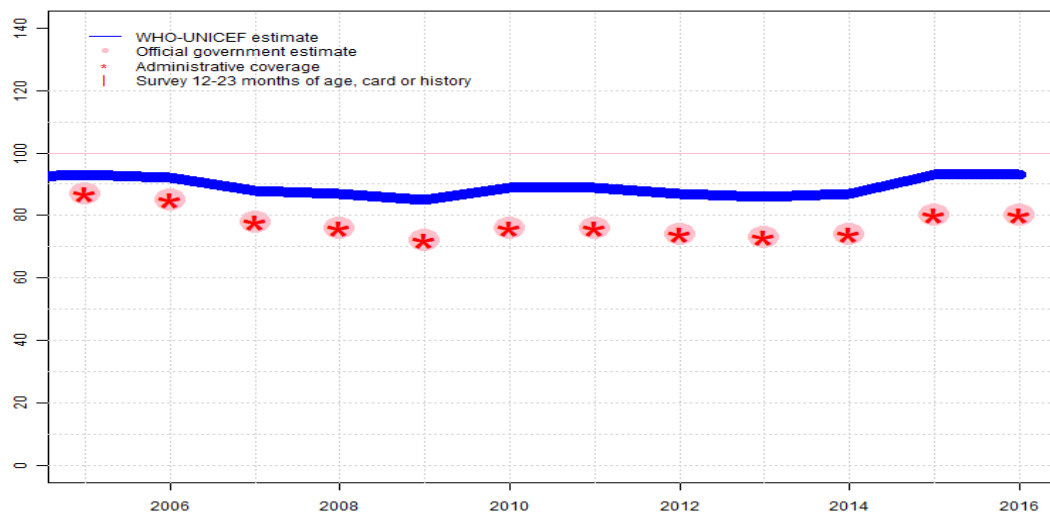
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Paraguay - Hib3

PRY - Hib3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	93	92	88	87	85	89	89	87	86	87	93	93
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	87	85	78	76	72	76	76	74	73	74	80	80
Administrative	87	85	78	76	72	76	76	74	73	74	80	80
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.

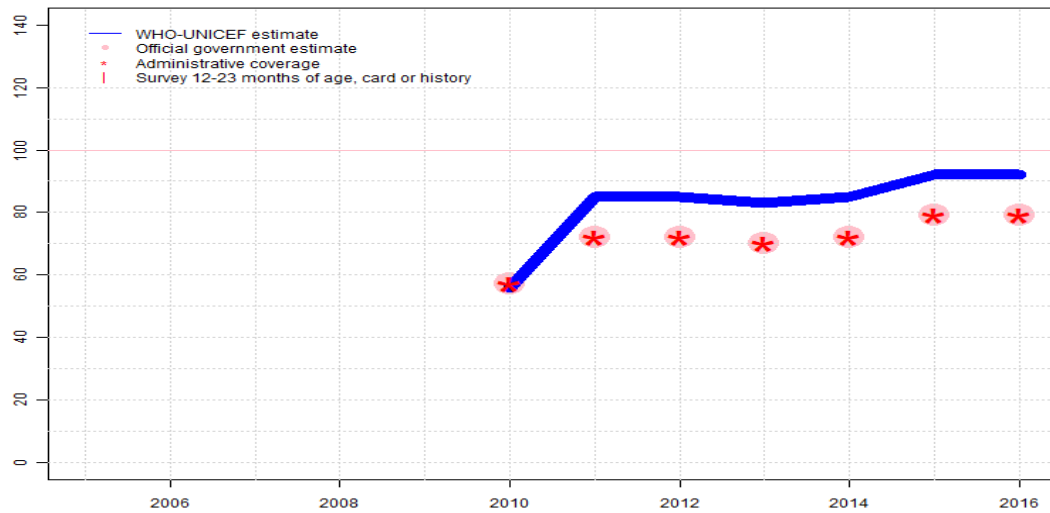
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Reported data calibrated to 2009 levels. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2009 levels. Programme reports one month national level stock-out of DTP containing vaccine. Estimate of 93 percent changed from previous revision value of 87 percent. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2013: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2012: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2011: Reported data calibrated to 2009 levels. Estimate challenged by: R-
- 2010: Reported data calibrated to 2009 levels. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Estimate challenged by: R-
- 2009: Estimate of 85 percent assigned by working group. Hib vaccine delivered in combination DTP-HepB-Hib vaccine. Estimate based on DTP3 levels An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office. Estimate challenged by: R-
- 2008: Reported data calibrated to 2004 and 2009 levels. Estimate challenged by: R-
- 2007: Reported data calibrated to 2004 and 2009 levels. Estimate challenged by: R-
- 2006: Reported data calibrated to 2004 and 2009 levels. Estimate challenged by: R-
- 2005: Reported data calibrated to 2004 and 2009 levels. Estimate challenged by: D-R-

Paraguay - RotaC

PRY - RotaC



Description:

- 2016: Reported data calibrated to 2011 levels. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2011 levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2011 levels. Estimate challenged by: R-
- 2013: Reported data calibrated to 2011 levels. Estimate challenged by: R-
- 2012: Reported data calibrated to 2011 levels. Estimate challenged by: R-
- 2011: Estimate of 85 percent assigned by working group. An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office. Estimate is based on an adjustment derived from the difference between estimated third dose of DTP containing vaccine and official government coverage. Estimate challenged by: R-
- 2010: Estimate of 56 percent assigned by working group. Estimate is based on reported data. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Rotavirus vaccine introduced in 2010. Estimate challenged by: R-

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	56	85	85	83	85	92	92
Estimate GoC	NA	NA	NA	NA	NA	•	•	•	•	•	•	•
Official	NA	NA	NA	NA	NA	57	72	72	70	72	79	79
Administrative	NA	NA	NA	NA	NA	57	72	72	70	72	79	79
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

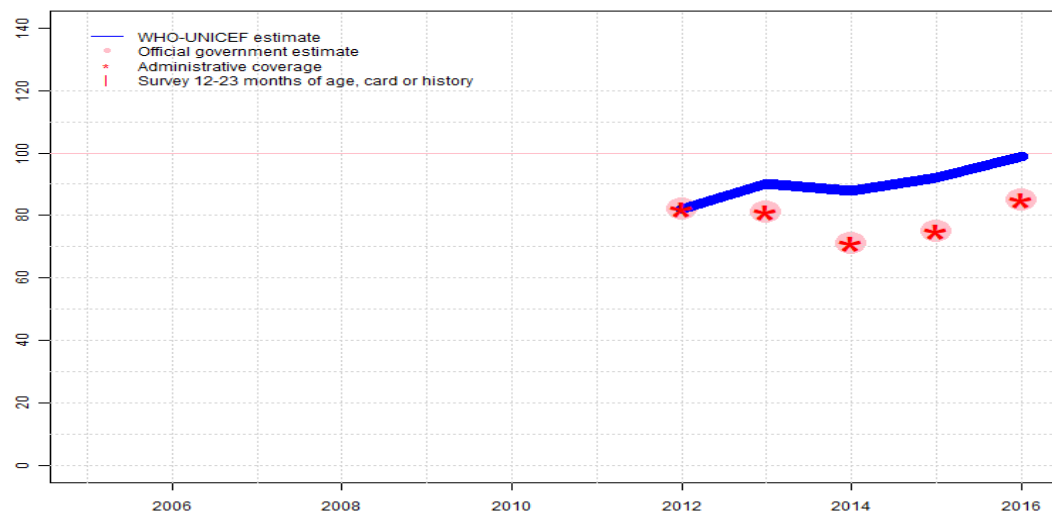
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Paraguay - PcV3

PRY - PcV3



Description:

- 2016: Reported data calibrated to 2014 levels. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2014 levels. Programme reports one month national level stock-out. Estimate challenged by: D-R-
- 2014: Estimate of 88 percent assigned by working group. Estimate is based on an adjustment applied to the official government estimate based on the difference between the estimated MCV1 and official government estimate for MCV1. Estimate challenged by: D-R-
- 2013: Estimate of 90 percent assigned by working group. Estimate is based on an adjustment applied to the official government estimate based on the difference between the estimated MCV1 and official government estimate for MCV1. Estimate challenged by: R-
- 2012: Estimate is based on reported data during introduction year. Pneumococcal vaccine introduced in 2012. GoC=R+ D+

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	82	90	88	92	99
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	●●	●	●	●	●
Official	NA	NA	NA	NA	NA	NA	NA	82	81	71	75	85
Administrative	NA	NA	NA	NA	NA	NA	NA	82	81	71	75	85
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

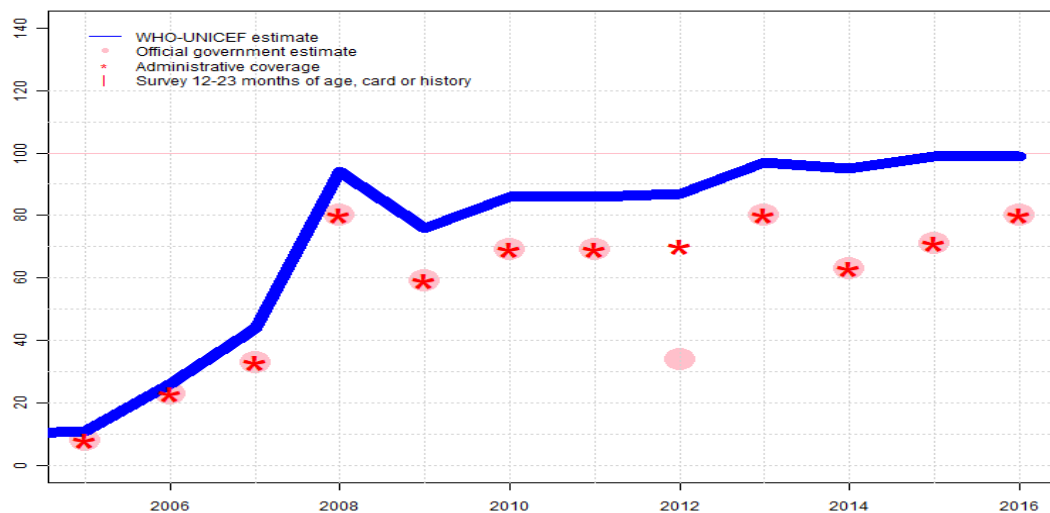
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Paraguay - YFV

PRY - YFV



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	11	26	44	94	76	86	86	87	97	95	99	99
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	8	23	33	80	59	69	69	34	80	63	71	80
Administrative	8	23	33	80	59	69	69	70	80	63	71	80
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:

- 2016: Reported data calibrated to 2013 levels. No nationally representative household survey assessing immunization within the last 5 years. WHO and UNICEF are aware of a planned vaccination coverage survey to assess reported levels of coverage. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2013 levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2013 levels. Unexplained decline in coverage. Estimate challenged by: D-R-
- 2013: Estimate of 97 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Reported data excluded due to an unexplained increase from 34 percent to 80 percent with decrease 63 percent. Estimate challenged by: R-
- 2012: Estimate of 87 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Reported data excluded due to decline in reported coverage from 69 percent to 34 percent with increase to 80 percent. Estimate challenged by: D-R-
- 2011: Estimate of 86 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Estimate challenged by: D-R-
- 2010: Estimate of 86 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. National coverage survey of children 12-35 years of age supports reported data. See the survey page for details. Estimate challenged by: D-R-
- 2009: Estimate of 76 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. An in-depth assessment of data quality suggested higher coverage than reported. Estimate of births are under review by the National Statistical Office.. Estimate challenged by: D-R-
- 2008: Estimate of 94 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Increase in coverage coincides with an outbreak of yellow fever. . Estimate challenged by: D-R-
- 2007: Estimate of 44 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Estimate challenged by: D-R-
- 2006: Estimate of 26 percent assigned by working group. Coverage level follows official government estimated with adjustment based on difference between estimated coverage and official government estimate for MCV1. Estimate challenged by: D-R-
- 2005: Reported data calibrated to 2006 levels. Estimate challenged by: D-R-

Paraguay - survey details

2010 Encuesta Nacional sobre Coberturas de Vacunación en niños de 12 a 35 meses de edad, Paraguay, 2011

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	95	12-35 m	3189	-
DTP1	Card or History	94	12-35 m	3189	-
DTP3	Card or History	93	12-35 m	3189	-
HepB1	Card or History	94	12-35 m	3189	-
HepB3	Card or History	93	12-35 m	3189	-
Hib1	Card or History	94	12-35 m	3189	-
Hib3	Card or History	93	12-35 m	3189	-
MCV1	Card or History	91	12-35 m	3189	-
Pol3	Card or History	93	12-35 m	3189	-
YFV	Card or History	88	12-35 m	3189	-

2008 Encuesta Demográfica y de Salud Familiar-ENDES Continua, 2009

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	94	18-29 m	1639	66
BCG	Card	61	18-29 m	1639	66
BCG	Card or History	94	18-29 m	1639	66
BCG	History	32	18-29 m	1639	66
DTP1	C or H <12 months	95	18-29 m	1639	66
DTP1	Card	65	18-29 m	1639	66
DTP1	Card or History	96	18-29 m	1639	66
DTP1	History	31	18-29 m	1639	66
DTP3	C or H <12 months	71	18-29 m	1639	66
DTP3	Card	60	18-29 m	1639	66
DTP3	Card or History	73	18-29 m	1639	66
DTP3	History	13	18-29 m	1639	66
MCV1	C or H <12 months	70	18-29 m	1639	66
MCV1	Card	53	18-29 m	1639	66
MCV1	Card or History	76	18-29 m	1639	66
MCV1	History	23	18-29 m	1639	66
Pol1	C or H <12 months	92	18-29 m	1639	66
Pol1	Card	63	18-29 m	1639	66

Pol1	Card or History	92	18-29 m	1639	66
Pol1	History	29	18-29 m	1639	66
Pol3	C or H <12 months	67	18-29 m	1639	66
Pol3	Card	58	18-29 m	1639	66
Pol3	Card or History	68	18-29 m	1639	66
Pol3	History	10	18-29 m	1639	66

2007 Encuesta Nacional de Demografía y Salud Sexual y Reproductiva (ENDSSR-2004)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	71	12-23 m	427	71
BCG	Card or History	98	12-23 m	427	71
DTP1	Card	71	12-23 m	427	71
DTP1	Card or History	99	12-23 m	427	71
DTP3	Card	68	12-23 m	427	71
DTP3	Card or History	94	12-23 m	427	71
MCV1	Card	59	12-23 m	427	71
MCV1	Card or History	84	12-23 m	427	71
Pol1	Card	68	12-23 m	427	71
Pol1	Card or History	96	12-23 m	427	71
Pol3	Card	67	12-23 m	427	71
Pol3	Card or History	90	12-23 m	427	71

2003 Encuesta Nacional de Demografía y Salud Sexual y Reproductiva 2004 (ENDSSR-2004)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	92	12-23 m	898	69
DTP1	Card or History	95	12-23 m	898	69
DTP3	Card or History	83	12-23 m	898	69
MCV1	Card or History	75	12-23 m	898	69
Pol1	Card or History	94	12-23 m	898	69
Pol3	Card or History	82	12-23 m	898	69

Paraguay - survey details

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