

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.

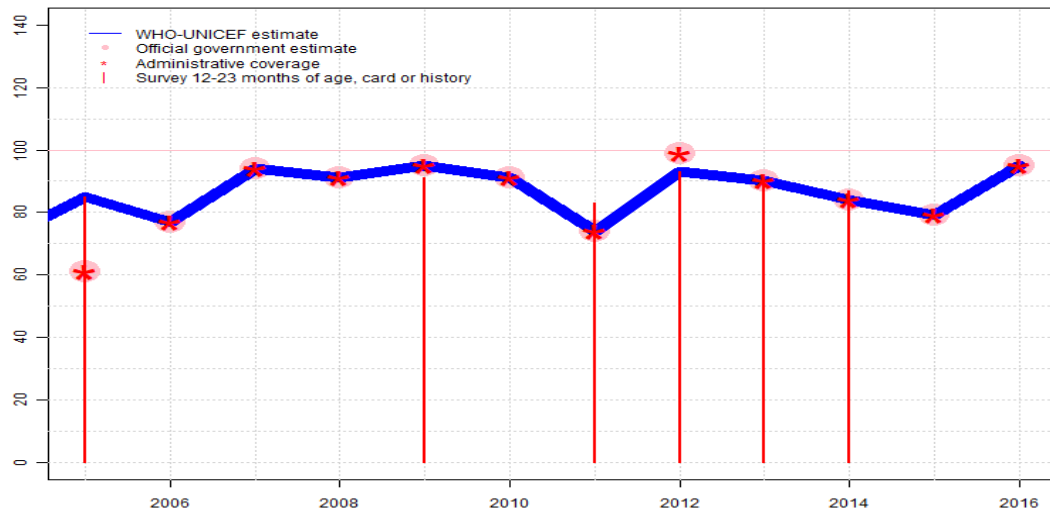
PcV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect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

CIV - BCG



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	85	77	94	91	95	91	74	93	90	84	79	95
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	61	77	94	91	95	91	74	99	90	84	79	95
Administrative	61	77	94	91	95	91	74	99	90	84	79	95
Survey	85	NA	NA	NA	91	NA	83	93	91	87	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

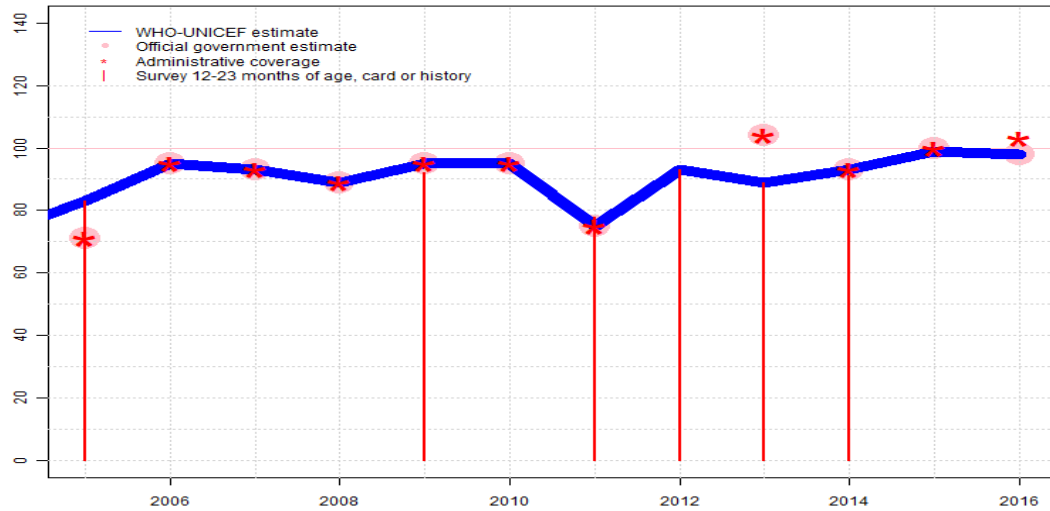
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Estimate based on coverage reported by national government. MICS survey conducted in 2015. Working group awaits survey results. Programme reports increasing vaccination sessions and other efforts to increase coverage levels and improve data quality. Increase may be the result of recovering from previous year BCG stock-out. GoC=Assigned by working group. Consistency across vaccines.
- 2015: Estimate based on reported administrative data. Programme reports three months stock-out at national level. Basis for adjustment to official coverage inconsistent with results from coverage survey. GoC=Assigned by working group. Consistency across vaccines.
- 2014: Estimate based on coverage reported by national government supported by survey. Survey evidence of 87 percent based on 1 survey(s). Programme reports four month stock-out at national level. Estimate is based on reported data. Programme reports that the conduct of supplementary immunization activities for measles and meningitis A as well as enumeration activities during the second half of 2014 was a distraction for routine immunization service delivery. GoC=Assigned by working group. Consistency across vaccines.
- 2013: Estimate based on coverage reported by national government supported by survey. Survey evidence of 91 percent based on 1 survey(s). Programme reports a two month stock-out at national level. GoC=Assigned by working group. Consistency across vaccines.
- 2012: Estimate of 93 percent assigned by working group. Estimate is based on survey results consistent with other antigens. Reported coverage might reflect recovery activities following the vaccine shortage in 2011. Estimate challenged by: D-R-
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 83 percent based on 1 survey(s). Decline in coverage is attributable to vaccine shortages in 70 districts. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Côte d'Ivoire External EPI Review 2010 results ignored by working group. Survey results are preliminary. Estimate challenged by: D-S-
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2006: The increase in reported coverage is attributable to revised denominator estimate. Estimate challenged by: D-
- 2005: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 85 percent based on 1 survey(s). Estimate challenged by: D-R-

Côte d'Ivoire - DTP1

CIV - DTP1



Description:

- 2016: Estimate based on coverage reported by national government. MICS survey conducted in 2015. Working group awaits survey results. Programme reports increasing vaccination sessions and other efforts to increase coverage levels and improve data quality. Estimate challenged by: D-
- 2015: Estimate based on reported administrative data. Basis for adjustment to official coverage inconsistent with results from coverage survey. GoC=Assigned by working group. Consistency across vaccines.
- 2014: Estimate based on coverage reported by national government supported by survey. Survey evidence of 91 percent based on 1 survey(s). Programme reports seven month stock-out at national level. Survey results do not reflect a decline in coverage as might be expected. Programme reports that the conduct of supplementary immunization activities for measles and meningitis A as well as enumeration activities during the second half of 2014 was a distraction for routine immunization service delivery. GoC=Assigned by working group. Consistency across vaccines.
- 2013: Estimate of 89 percent assigned by working group. Estimate based on survey result. Reported data excluded because 104 percent greater than 100 percent. Estimate challenged by: D-R-S-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 93 percent based on 1 survey(s). Reported coverage might reflect recovery activities following the vaccine shortage in 2011. GoC=Assigned by working group. No reported data. Consistency with other vaccines.
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 78 percent based on 1 survey(s). Decline in coverage is attributable to vaccine shortages in 70 districts. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2009: Estimate based on coverage reported by national government. Côte d'Ivoire External EPI Review 2010 results ignored by working group. Survey results are preliminary. Estimate challenged by: S-
- 2008: Estimate based on coverage reported by national government. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: The increase in reported coverage is attributable to revised denominator estimate. Estimate challenged by: D-S-
- 2005: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 83 percent based on 1 survey(s). Estimate challenged by: R-

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	83	95	93	89	95	95	75	93	89	93	99	98
Estimate GoC	•	•	•••	••	•	•	•	•	•	•	•	•
Official	71	95	93	89	95	95	75	NA	104	93	100	98
Administrative	71	95	93	89	95	95	75	NA	104	93	100	103
Survey	83	NA	NA	NA	92	NA	78	93	89	91	NA	NA

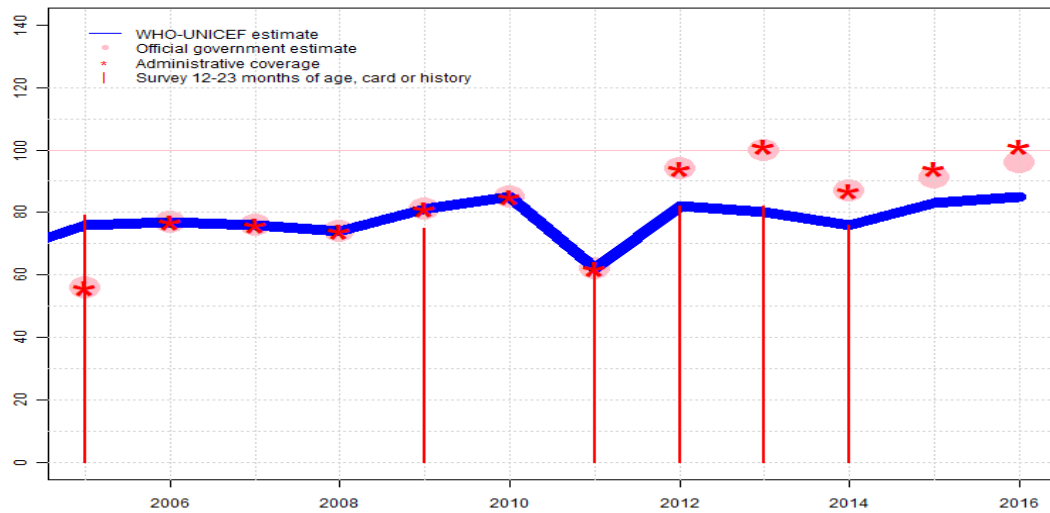
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Côte d'Ivoire - DTP3

CIV - DTP3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	76	77	76	74	81	85	62	82	80	76	83	85
Estimate GoC	•	•••	•••	••	•	•	•	•	•	•	•	•
Official	56	77	76	74	81	85	62	94	100	87	91	96
Administrative	56	77	76	74	81	85	62	94	101	87	94	101
Survey	79	NA	NA	NA	75	NA	64	82	82	76	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.

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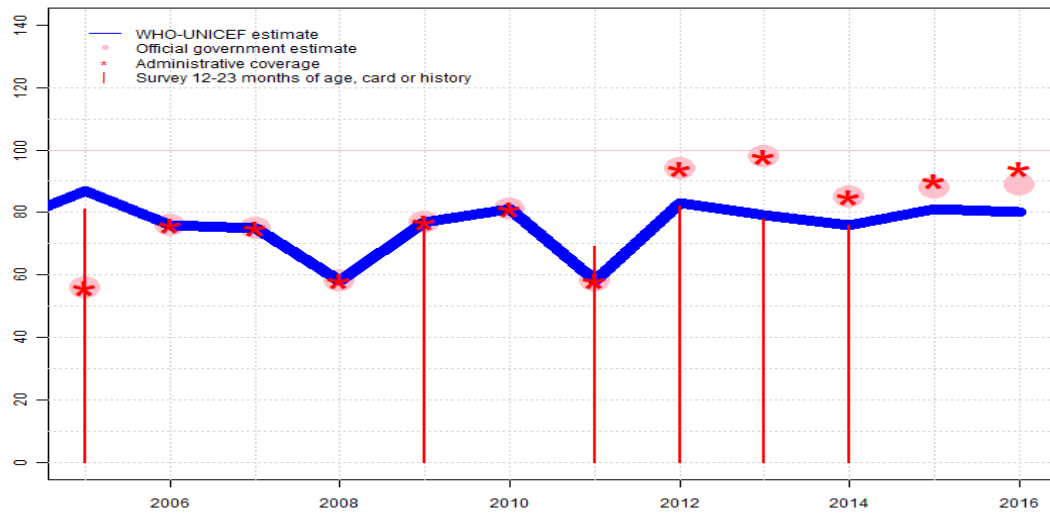
- 2016: Reported data calibrated to 2014 levels. MICS survey conducted in 2015. Working group awaits survey results. Programme reports increasing vaccination sessions and other efforts to increase coverage levels and improve data quality. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2014 levels. Drop-out observed in the reported data is inconsistent with that observed in the most recent survey, particularly among those with HBRs where coverage levels would be expected to be highest. Basis for adjustment to official coverage inconsistent with results from coverage survey. Estimate challenged by: D-R-
- 2014: Estimate of 76 percent assigned by working group. Estimate based on survey level. Programme reports seven month stock-out at national level. Survey results do not reflect a decline in coverage as might be expected. Government disagrees with WHO and UNICEF estimates. Programme reports that the conduct of supplementary immunization activities for measles and meningitis A as well as enumeration activities during the second half of 2014 was a distraction for routine immunization service delivery. Estimate challenged by: D-R-
- 2013: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 80 percent based on 1 survey(s). Final Report of Evaluation of a Vaccination Campaign against Measles, Cote d'Ivoire, 2014 card or history results of 82 percent modified for recall bias to 80 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 68 percent and 3d dose card only coverage of 61 percent. National programme reports vaccinating 100 percent of children. The programme highlights the conduct of seven weeks of intensification activities that allowed the programme to reach additional children during 2013 compared to previous years. Survey evidence for the 2013 birth cohort challenges the reported coverage level. Estimate challenged by: D-R-S-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 82 percent based on 1 survey(s). Reported coverage might reflect recovery activities following the vaccine shortage in 2011. Estimate challenged by: D-R-S-
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 67 percent based on 1 survey(s). Côte d'Ivoire Demographic and Health and Multiple Indicator Cluster Survey 2011-2012 card or history results of 64 percent modified for recall bias to 67 percent based on 1st dose card or history coverage of 78 percent, 1st dose card only coverage of 65 percent and 3d dose card only coverage of 56 percent. Decline in coverage is attributable to vaccine shortages in 70 districts. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2009: Estimate based on coverage reported by national government. Côte d'Ivoire External EPI Review 2010 results ignored by working group. Survey results are preliminary. Estimate challenged by: S-
- 2008: Estimate based on coverage reported by national government. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+

Côte d'Ivoire - DTP3

2006: The increase in reported coverage is attributable to revised denominator estimate.
GoC=R+ S+ D+

2005: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 76 percent based on 1 survey(s). Côte d'Ivoire Multiple Indicator Cluster Survey, 2006 card or history results of 79 percent modified for recall bias to 76 percent based on 1st dose card or history coverage of 83 percent, 1st dose card only coverage of 72 percent and 3d dose card only coverage of 66 percent. Estimate challenged by: D-R-

CIV - Pol3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	87	76	75	58	77	81	58	83	79	76	81	80
Estimate GoC	•	•	•	••	•••	•••	•	•	•	•	•	•
Official	56	76	75	58	77	81	58	94	98	85	88	89
Administrative	56	76	75	58	77	81	58	94	98	85	90	94
Survey	81	NA	NA	NA	75	NA	69	82	78	76	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:

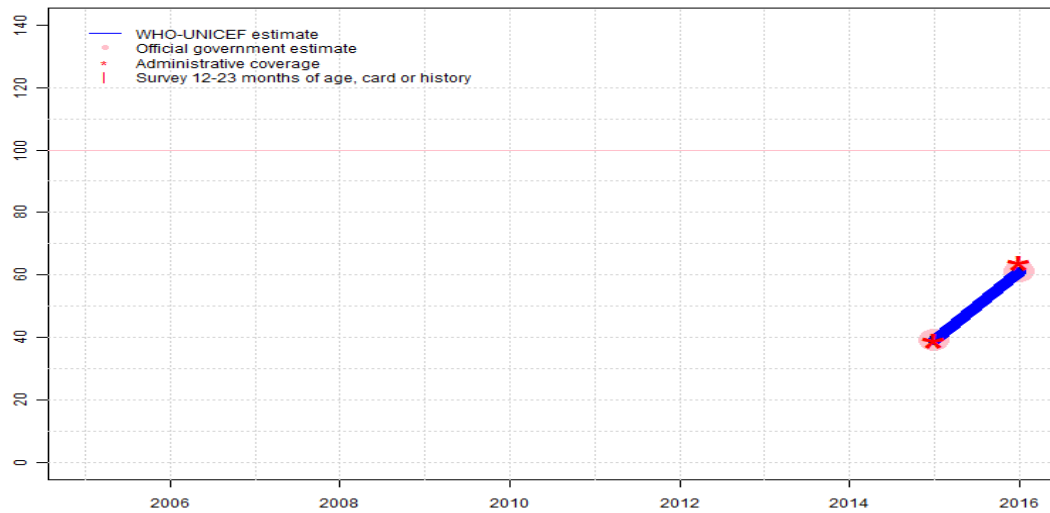
- 2016: Reported data calibrated to 2014 levels. MICS survey conducted in 2015. Working group awaits survey results. Programme reports increasing vaccination sessions and other efforts to increase coverage levels and improve data quality. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2014 levels. Basis for adjustment to official coverage inconsistent with results from coverage survey. Estimate challenged by: D-R-
- 2014: Estimate of 76 percent assigned by working group. Estimate based on survey level. Programme reports four month stock-out at national level. Government disagrees with WHO and UNICEF estimate. Estimate is based on trend in reported data. Programme reports that the conduct of supplementary immunization activities for measles and meningitis A as well as enumeration activities during the second half of 2014 was a distraction for routine immunization service delivery. Estimate challenged by: D-R-
- 2013: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 79 percent based on 1 survey(s). Final Report of Evaluation of a Vaccination Campaign against Measles, Cote d Ivoire, 2014 card or history results of 78 percent modified for recall bias to 79 percent based on 1st dose card or history coverage of 83 percent, 1st dose card only coverage of 58 percent and 3d dose card only coverage of 55 percent. Programme reports two months stockout at national level. Estimate challenged by: D-R-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 83 percent based on 1 survey(s). Vaccination Coverage Survey 2013 card or history results of 82 percent modified for recall bias to 83 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 88 percent and 3d dose card only coverage of 78 percent. Reported coverage might reflect recovery activities following the vaccine shortage in 2011. Estimate challenged by: D-R-
- 2011: Survey results likely contain doses administered during campaigns. Côte d'Ivoire Demographic and Health and Multiple Indicator Cluster Survey 2011-2012 card or history results of 69 percent modified for recall bias to 77 percent based on 1st dose card or history coverage of 91 percent, 1st dose card only coverage of 71 percent and 3d dose card only coverage of 60 percent. Decline in coverage is attributable to vaccine shortages in 70 districts. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government. Côte d'Ivoire External EPI Review 2010 results ignored by working group. Survey results are preliminary. GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government. Decline in coverage is attributed to two months shortage of vaccine. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2006: The increase in reported coverage is attributable to revised denominator estimate. Estimate challenged by: S-
- 2005: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 87 percent based on 1 survey(s). Côte d'Ivoire Multiple Indicator Cluster

Côte d'Ivoire - Pol3

Survey, 2006 card or history results of 81 percent modified for recall bias to 87 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 71 percent and 3d dose card only coverage of 66 percent. Estimate challenged by: D-R-

Côte d'Ivoire - IPV1

CIV - IPV1



Description:

- 2016: Estimate based on coverage reported by national government. MICS survey conducted in 2015. Working group awaits survey results. Programme reports increasing vaccination sessions and other efforts to increase coverage levels and improve data quality. Programme reports a 6 month IPV stock-out. Data reported exceptionally accepted due to year of introduction complicated by reported vaccine stock-outs. GoC=R+ D+
- 2015: Estimate based on reported administrative estimate. IPV introduced during 2015. Basis for adjustment to official coverage inconsistent with results from coverage survey. GoC=Assigned by working group. Consistency across vaccines.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	61
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	•	••
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	61
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	64
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

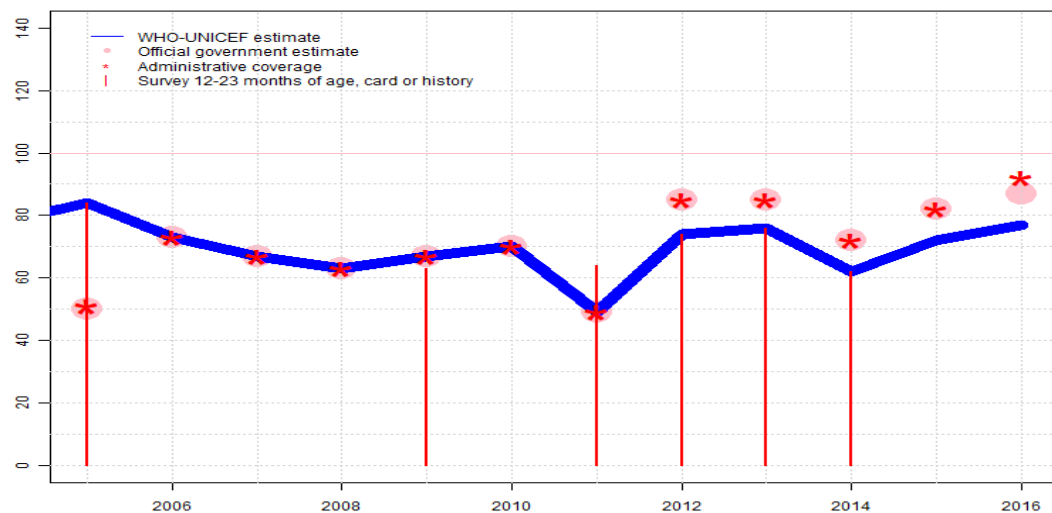
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- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While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

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Côte d'Ivoire - MCV1

CIV - MCV1



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	84	73	67	63	67	70	49	74	76	62	72	77
Estimate GoC	•	•	•	••	•••	•••	•	•	•	•	•	•
Official	50	73	67	63	67	70	49	85	85	72	82	87
Administrative	51	73	67	63	67	70	49	85	85	72	82	92
Survey	84	NA	NA	NA	63	NA	64	74	76	62	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.

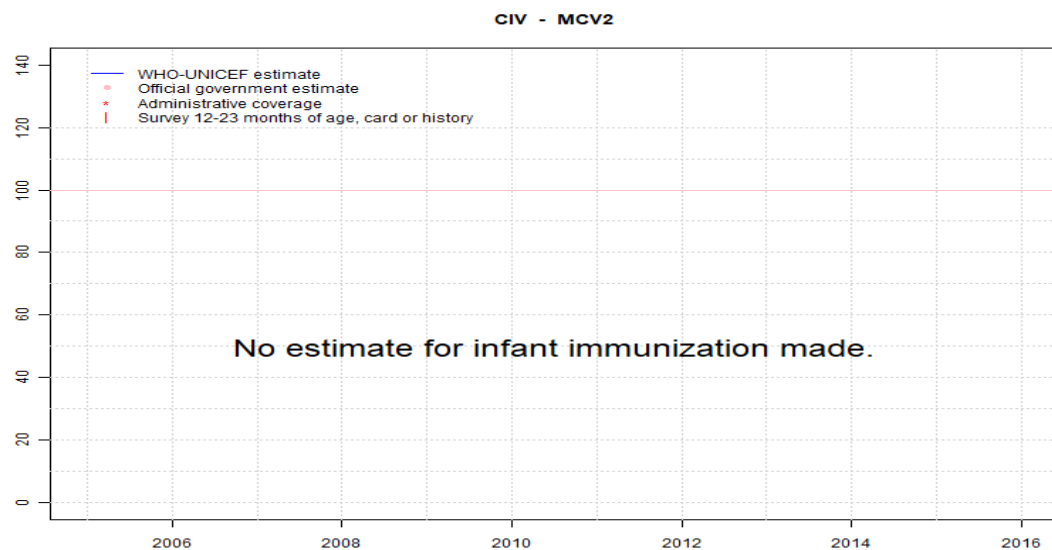
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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 2014 levels. MICS survey conducted in 2015. Working group awaits survey results. Programme reports increasing vaccination sessions and other efforts to increase coverage levels and improve data quality. Estimate challenged by: D-R-S-
- 2015: Reported data calibrated to 2014 levels. Basis for adjustment to official coverage inconsistent with results from coverage survey. Estimate challenged by: D-R-
- 2014: Estimate of 62 percent assigned by working group. Estimate based on survey level. Programme reports five month stock-out at national level. Government disagrees with WHO and UNICEF estimate. Estimate is based on trend in reported data. Programme reports that the conduct of supplementary immunization activities for measles and meningitis A as well as enumeration activities during the second half of 2014 was a distraction for routine immunization service delivery. Estimate challenged by: D-R-S-
- 2013: Estimate of 76 percent assigned by working group. Estimate based on survey result. Consistent with other antigens. Programme reports three month stockout at national level. Estimate challenged by: D-R-S-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 74 percent based on 1 survey(s). Reported coverage might reflect recovery activities following the vaccine shortage in 2011. Estimate challenged by: D-R-S-
- 2011: Survey results likely contain doses administered during campaigns. Decline in coverage is attributable to vaccine shortages in 70 districts. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government. Côte d'Ivoire External EPI Review 2010 results ignored by working group. Survey results are preliminary. GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2006: The increase in reported coverage is attributable to revised denominator estimate. Estimate challenged by: S-
- 2005: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 84 percent based on 1 survey(s). Estimate challenged by: D-R-

Côte d'Ivoire - MCV2



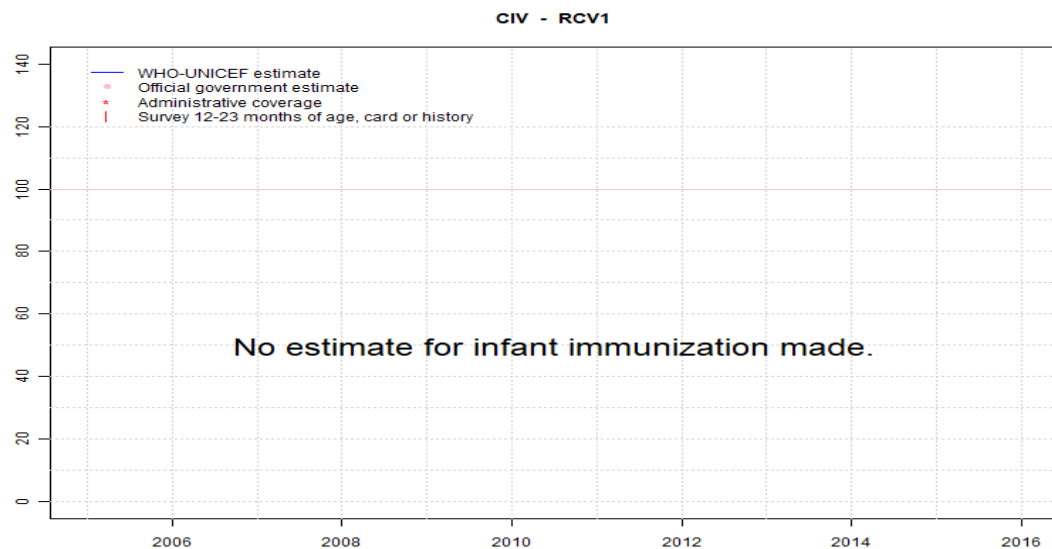
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

Côte d'Ivoire - RCV1



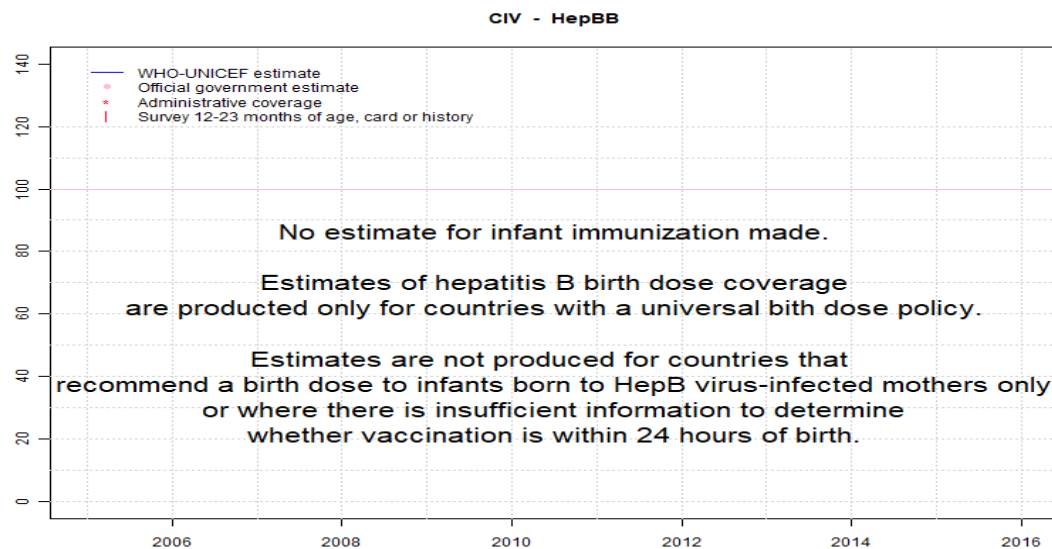
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

Côte d'Ivoire - 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

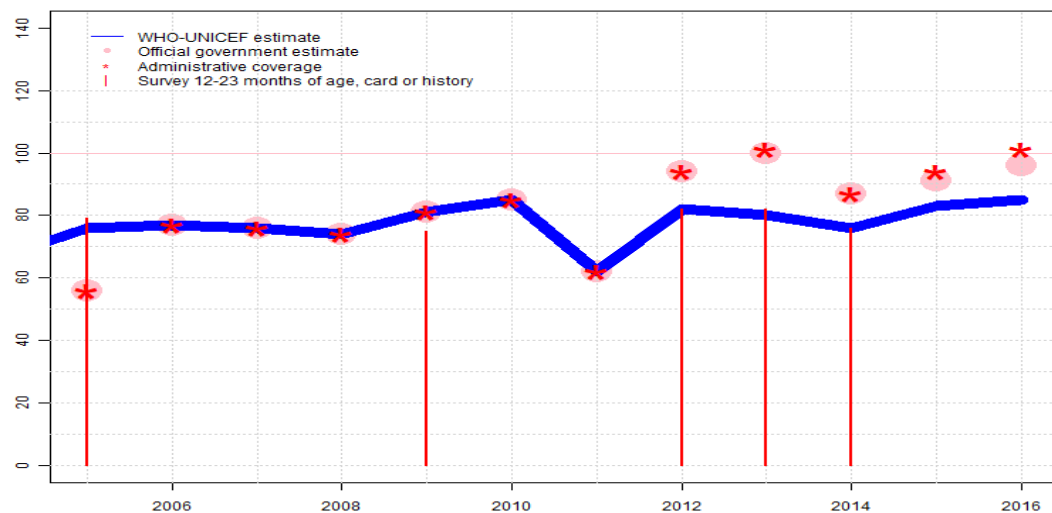
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Côte d'Ivoire - HepB3

CIV - HepB3



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	76	77	76	74	81	85	62	82	80	76	83	85
Estimate GoC	•	•••	•••	••	••	•••	•	•	•	•	•	•
Official	56	77	76	74	81	85	62	94	100	87	91	96
Administrative	56	77	76	74	81	85	62	94	101	87	94	101
Survey	79	NA	NA	NA	75	NA	NA	82	82	76	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.

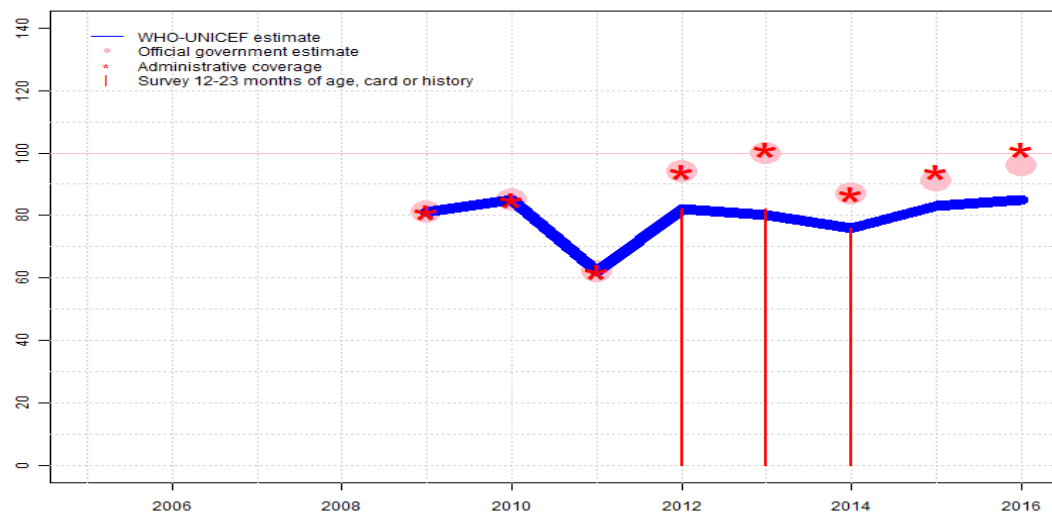
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2016: Reported data calibrated to 2014 levels. MICS survey conducted in 2015. Working group awaits survey results. Programme reports increasing vaccination sessions and other efforts to increase coverage levels and improve data quality. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2014 levels. Basis for adjustment to official coverage inconsistent with results from coverage survey. Estimate challenged by: D-R-
- 2014: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 76 percent based on 1 survey(s). Programme reports seven month stock-out at national level. Government disagrees with WHO and UNICEF estimates. Estimate is based on trend in reported data. Programme reports that the conduct of supplementary immunization activities for measles and meningitis A as well as enumeration activities during the second half of 2014 was a distraction for routine immunization service delivery. Estimate challenged by: D-R-
- 2013: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 80 percent based on 1 survey(s). Final Report of Evaluation of a Vaccination Campaign against Measles, Cote d'Ivoire, 2014 card or history results of 82 percent modified for recall bias to 80 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 68 percent and 3d dose card only coverage of 61 percent. National programme reports vaccinating 100 percent of children. The programme highlights the conduct of seven weeks of intensification activities that allowed the programme to reach additional children during 2013 compared to previous years. Survey evidence for the 2013 birth cohort challenges the reported coverage level. Estimate challenged by: D-R-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 82 percent based on 1 survey(s). Reported coverage might reflect recovery activities following the vaccine shortage in 2011. Estimate challenged by: D-R-
- 2011: Estimate based on DTP3 coverage level. Decline in coverage is attributable to vaccine shortages in 70 districts. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2009: Estimate based on DTP3 coverage level. Côte d'Ivoire External EPI Review 2010 results ignored by working group. Survey results are preliminary. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: The increase in reported coverage is attributable to revised denominator estimate. GoC=R+ S+ D+
- 2005: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 76 percent based on 1 survey(s). Côte d'Ivoire Multiple Indicator Cluster Survey, 2006 card or history results of 79 percent modified for recall bias to 76 percent based on 1st dose card or history coverage of 83 percent, 1st dose card only coverage of 72 percent and 3d dose card only coverage of 66 percent. Estimate challenged by: D-R-

Côte d'Ivoire - Hib3

CIV - Hib3



Description:

- 2016: Reported data calibrated to 2014 levels. MICS survey conducted in 2015. Working group awaits survey results. Programme reports increasing vaccination sessions and other efforts to increase coverage levels and improve data quality. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2014 levels. Basis for adjustment to official coverage inconsistent with results from coverage survey. Estimate challenged by: D-R-
- 2014: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 76 percent based on 1 survey(s). Programme reports seven month stock-out at national level. Government disagrees with WHO and UNICEF estimates. Estimate is based on trend in reported data. Programme reports that the conduct of supplementary immunization activities for measles and meningitis A as well as enumeration activities during the second half of 2014 was a distraction for routine immunization service delivery. Estimate challenged by: D-R-
- 2013: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 80 percent based on 1 survey(s). Final Report of Evaluation of a Vaccination Campaign against Measles, Cote d Ivoire, 2014 card or history results of 82 percent modified for recall bias to 80 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 68 percent and 3d dose card only coverage of 61 percent. National programme reports vaccinating 100 percent of children. The programme highlights the conduct of seven weeks of intensification activities that allowed the programme to reach additional children during 2013 compared to previous years. Survey evidence for the 2013 birth cohort challenges the reported coverage level. Estimate challenged by: D-R-
- 2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 82 percent based on 1 survey(s). Reported coverage might reflect recovery activities following the vaccine shortage in 2011. Estimate challenged by: D-R-
- 2011: Estimate based on DTP3 coverage level. Decline in coverage is attributable to vaccine shortages in 70 districts. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2009: Estimate based on DTP3 coverage level. Hib vaccine introduced in 2009. Vaccine presentation is DTP-HepB-Hib. GoC=R+ D+

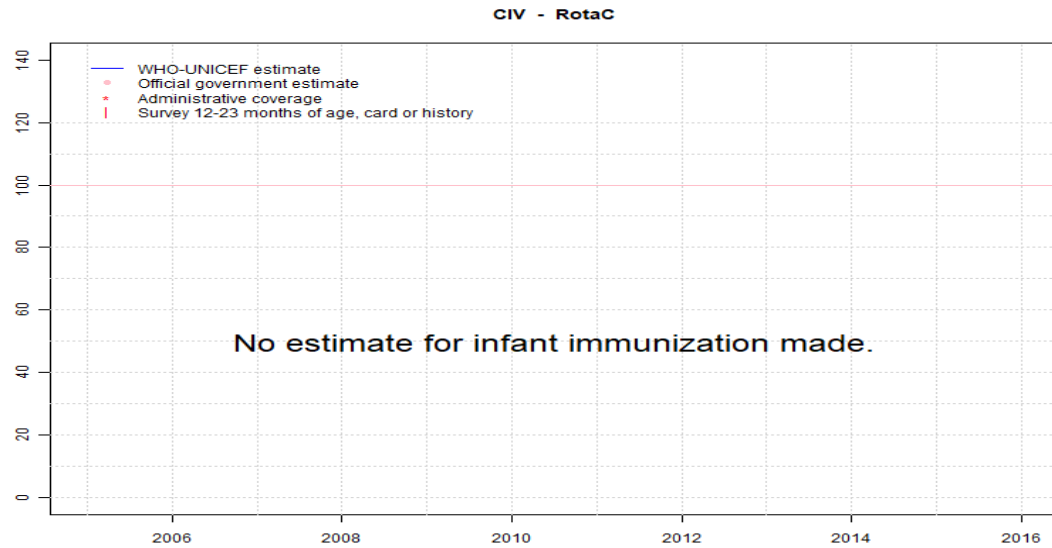
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	81	85	62	82	80	76	83	85
Estimate GoC	NA	NA	NA	NA	●●	●●●	●	●	●	●	●	●
Official	NA	NA	NA	NA	81	85	62	94	100	87	91	96
Administrative	NA	NA	NA	NA	81	85	62	94	101	87	94	101
Survey	NA	NA	NA	NA	NA	NA	NA	82	82	76	NA	NA

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.

Côte d'Ivoire - 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

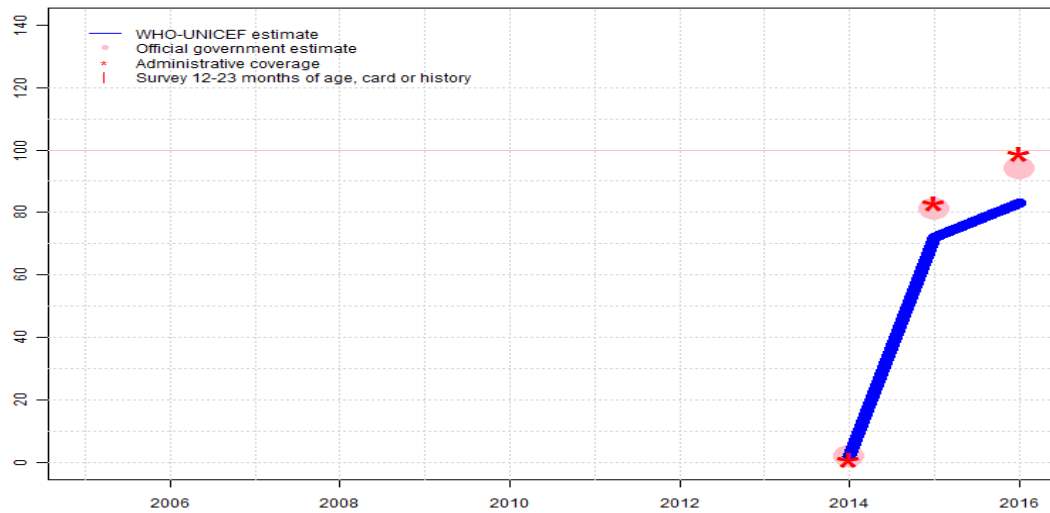
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Côte d'Ivoire - PcV3

CIV - PcV3



Description:

- 2016: Reported data calibrated to 2015 levels. MICS survey conducted in 2015. Working group awaits survey results. Programme reports increasing vaccination sessions and other efforts to increase coverage levels and improve data quality. Estimate challenged by: D-R-
- 2015: Estimate of 72 percent assigned by working group. Estimate is based on the difference between the administrative coverage and estimate for DTP3. Basis for adjustment to official coverage inconsistent with results from coverage survey. Estimate challenged by: D-R-
- 2014: Pneumococcal conjugate vaccine introduced during September 2014. Estimate is based on reported data. Programme reports that the conduct of supplementary immunization activities for measles and meningitis A as well as enumeration activities during the second half of 2014 was a distraction for routine immunization service delivery. GoC=Assigned by working group. Consistency across vaccines.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	72	83
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	81	94
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	83	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

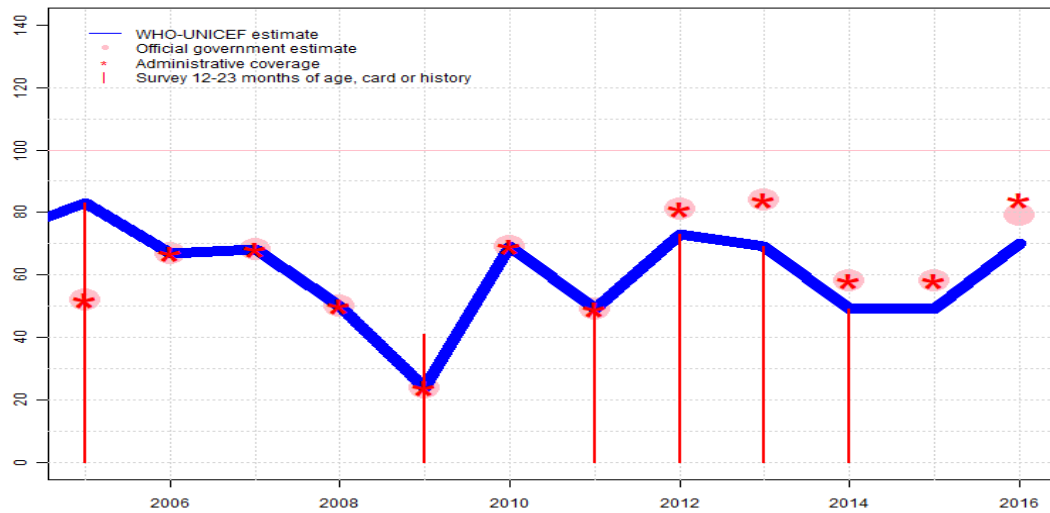
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Côte d'Ivoire - YFV

CIV - YFV



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Estimate	83	67	68	50	24	69	49	73	69	49	49	70
Estimate GoC	•	•	•	••	•	•	•	•	•	•	•	•
Official	52	67	68	50	24	69	49	81	84	58	58	79
Administrative	52	67	68	50	24	69	49	81	84	58	58	84
Survey	83	NA	NA	NA	41	NA	48	73	69	49	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 2014 levels. MICS survey conducted in 2015. Working group awaits survey results. Programme reports increasing vaccination sessions and other efforts to increase coverage levels and improve data quality. Programme reports a 2 month yellow fever vaccine stock-out. Estimate challenged by: D-R-S-
- 2015: Reported data calibrated to 2014 levels. Programme reports three months stock-out at national level. Basis for adjustment to official coverage inconsistent with results from coverage survey. Estimate challenged by: D-R-S-
- 2014: Estimate of 49 percent assigned by working group. Estimate based on survey level. Programme reports six month stock-out at national level. Estimate is based on trend in reported data. Programme reports that the conduct of supplementary immunization activities for measles and meningitis A as well as enumeration activities during the second half of 2014 was a distraction for routine immunization service delivery. Estimate challenged by: D-R-S-
- 2013: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 69 percent based on 1 survey(s). Programme reports four month stockout at national level. Estimate challenged by: D-R-S-
- 2012: Estimate of 73 percent assigned by working group. Estimate is based on survey results consistent with other antigens. Reported coverage might reflect recovery activities following the vaccine shortage in 2011. Estimate challenged by: D-R-S-
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 48 percent based on 1 survey(s). Decline in coverage is attributable to vaccine shortages in 70 districts. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. Increased coverage likely reflects catch-up activities following stockout in the previous year. Estimate challenged by: S-
- 2009: Estimate based on coverage reported by national government. Côte d'Ivoire External EPI Review 2010 results ignored by working group. Survey results are preliminary. Ten-month vaccine stock-out reported. Estimate challenged by: S-
- 2008: Estimate based on coverage reported by national government. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2006: The increase in reported coverage is attributable to revised denominator estimate. Estimate challenged by: S-
- 2005: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 83 percent based on 1 survey(s). Estimate challenged by: D-R-

Côte d'Ivoire - survey details

2014 Revue Externe du Programme Elargi de Vaccination de Cote d'Ivoire in 2015

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	85	12-23 m	6416	91
BCG	Card or History	87	12-23 m	6416	91
DTP1	Card	84	12-23 m	6416	91
DTP1	Card or History	91	12-23 m	6416	91
DTP3	Card	70	12-23 m	6416	91
DTP3	Card or History	76	12-23 m	6416	91
HepB1	Card	84	12-23 m	6416	91
HepB1	Card or History	91	12-23 m	6416	91
HepB3	Card	70	12-23 m	6416	91
HepB3	Card or History	76	12-23 m	6416	91
Hib1	Card	84	12-23 m	6416	91
Hib1	Card or History	91	12-23 m	6416	91
Hib3	Card	70	12-23 m	6416	91
Hib3	Card or History	76	12-23 m	6416	91
MCV1	Card	57	12-23 m	6416	91
MCV1	Card or History	62	12-23 m	6416	91
Pol3	Card	70	12-23 m	6416	91
Pol3	Card or History	76	12-23 m	6416	91
YFV	Card	44	12-23 m	6416	91
YFV	Card or History	49	12-23 m	6416	91

2013 Republique de Cote d'Ivoire Evaluation de la Campagne de Vaccination contre la Rougeole 2014 (Rapport Final)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	61	12-23 m	-	75
BCG	Card or History	91	12-23 m	8787	75
DTP1	Card	68	12-23 m	-	75
DTP1	Card or History	89	12-23 m	8787	75
DTP3	Card	61	12-23 m	-	75
DTP3	Card or History	82	12-23 m	8787	75
HepB1	Card	68	12-23 m	-	75
HepB1	Card or History	89	12-23 m	8787	75
HepB3	Card	61	12-23 m	-	75

HepB3	Card or History	82	12-23 m	8787	75
Hib1	Card	68	12-23 m	-	75
Hib1	Card or History	89	12-23 m	8787	75
Hib3	Card	61	12-23 m	-	75
Hib3	Card or History	82	12-23 m	8787	75
MCV1	Card	55	12-23 m	-	75
MCV1	Card or History	76	12-23 m	8787	75
Pol1	Card	58	12-23 m	-	75
Pol1	Card or History	83	12-23 m	8787	75
Pol3	Card	55	12-23 m	-	75
Pol3	Card or History	78	12-23 m	8787	75
YFV	Card	49	12-23 m	-	75
YFV	Card or History	69	12-23 m	8787	75

2012 Enquête de Couverture Vaccinale 2013

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	87	12-23 m	-	88
BCG	Card or History	93	12-23 m	4751	88
DTP1	Card	88	12-23 m	-	88
DTP1	Card or History	93	12-23 m	4751	88
DTP3	Card	78	12-23 m	-	88
DTP3	Card or History	82	12-23 m	4751	88
HepB1	Card	88	12-23 m	-	88
HepB1	Card or History	93	12-23 m	4751	88
HepB3	Card	78	12-23 m	-	88
HepB3	Card or History	82	12-23 m	4751	88
Hib1	Card	88	12-23 m	-	88
Hib1	Card or History	93	12-23 m	4751	88
Hib3	Card	78	12-23 m	-	88
Hib3	Card or History	82	12-23 m	4751	88
MCV1	Card	71	12-23 m	-	88
MCV1	Card or History	74	12-23 m	4751	88
Pol1	Card	88	12-23 m	-	88
Pol1	Card or History	94	12-23 m	4751	88
Pol3	Card	78	12-23 m	-	88
Pol3	Card or History	82	12-23 m	4751	88
YFV	Card	69	12-23 m	-	88
YFV	Card or History	73	12-23 m	4751	88

Côte d'Ivoire - survey details

2011 Enquête Démographique et de Santé et à Indicateurs Multiples EDSCI-III, Côte d'Ivoire, 2011-2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	83	12-23 m	1432	74
BCG	Card	68	12-23 m	1061	74
BCG	Card or History	83	12-23 m	1432	74
BCG	History	15	12-23 m	371	74
DTP1	C or H <12 months	77	12-23 m	1432	74
DTP1	Card	65	12-23 m	1061	74
DTP1	Card or History	78	12-23 m	1432	74
DTP1	History	12	12-23 m	371	74
DTP3	C or H <12 months	60	12-23 m	1432	74
DTP3	Card	56	12-23 m	1061	74
DTP3	Card or History	64	12-23 m	1432	74
DTP3	History	8	12-23 m	371	74
MCV1	C or H <12 months	49	12-23 m	1432	74
MCV1	Card	53	12-23 m	1061	74
MCV1	Card or History	64	12-23 m	1432	74
MCV1	History	12	12-23 m	371	74
Pol1	C or H <12 months	91	12-23 m	1432	74
Pol1	Card	71	12-23 m	1061	74
Pol1	Card or History	91	12-23 m	1432	74
Pol1	History	20	12-23 m	371	74
Pol3	C or H <12 months	65	12-23 m	1432	74
Pol3	Card	60	12-23 m	1061	74
Pol3	Card or History	69	12-23 m	1432	74
Pol3	History	9	12-23 m	371	74
YFV	C or H <12 months	34	12-23 m	1432	74
YFV	Card	48	12-23 m	1061	74
YFV	Card or History	48	12-23 m	1432	74
YFV	History	0	12-23 m	371	74

2010 Enquête Démographique et de Santé et à Indicateurs Multiples EDSCI-III, Côte d'Ivoire, 2011-2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	84	24-35 m	1350	74
DTP1	C or H <12 months	79	24-35 m	1350	74
DTP3	C or H <12 months	62	24-35 m	1350	74
MCV1	C or H <12 months	52	24-35 m	1350	74
Pol1	C or H <12 months	90	24-35 m	1350	74
Pol3	C or H <12 months	64	24-35 m	1350	74

2009 Côte D'Ivoire Revue externe 2010 du Programme Elargi de Vaccination

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	87	12-23 m	-	91
BCG	Card <12 months	78	12-23 m	-	91
BCG	Card or History	91	12-23 m	3455	91
DTP1	Card	78	12-23 m	-	91
DTP1	Card <12 months	72	12-23 m	-	91
DTP1	Card or History	92	12-23 m	3455	91
DTP3	Card	64	12-23 m	-	91
DTP3	Card <12 months	53	12-23 m	-	91
DTP3	Card or History	75	12-23 m	3455	91
HepB1	Card	78	12-23 m	-	91
HepB1	Card <12 months	72	12-23 m	-	91
HepB1	Card or History	92	12-23 m	3455	91
HepB3	Card	64	12-23 m	-	91
HepB3	Card <12 months	53	12-23 m	-	91
HepB3	Card or History	75	12-23 m	3455	91
MCV1	Card	57	12-23 m	-	91
MCV1	Card <12 months	40	12-23 m	-	91
MCV1	Card or History	63	12-23 m	3455	91
Pol1	Card	81	12-23 m	-	91
Pol1	Card <12 months	74	12-23 m	-	91
Pol1	Card or History	92	12-23 m	3455	91
Pol3	Card	66	12-23 m	-	91
Pol3	Card <12 months	55	12-23 m	-	91
Pol3	Card or History	75	12-23 m	3455	91
YFV	Card	36	12-23 m	-	91
YFV	Card <12 months	24	12-23 m	-	91
YFV	Card or History	41	12-23 m	3455	91

Côte d'Ivoire - survey details

2009 Enquête Démographique et de Santé et à Indicateurs Multiples EDSCI-III, Côte d'Ivoire, 2011-2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	79	36-47 m	1289	74
DTP1	C or H <12 months	72	36-47 m	1289	74
DTP3	C or H <12 months	54	36-47 m	1289	74
MCV1	C or H <12 months	48	36-47 m	1289	74
Pol1	C or H <12 months	84	36-47 m	1289	74
Pol3	C or H <12 months	57	36-47 m	1289	74

2008 Enquête Démographique et de Santé et à Indicateurs Multiples EDSCI-III, Côte d'Ivoire, 2011-2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	79	46-59 m	1250	74
DTP1	C or H <12 months	72	46-59 m	1250	74
DTP3	C or H <12 months	54	46-59 m	1250	74
MCV1	C or H <12 months	50	46-59 m	1250	74
Pol1	C or H <12 months	84	46-59 m	1250	74
Pol3	C or H <12 months	55	46-59 m	1250	74

2005 Enquête par grappes à indicateurs multiples, Côte d'Ivoire, 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	85	12-23 m	1751	73
BCG	Card	72	12-23 m	1751	73
BCG	Card or History	85	12-23 m	1751	73
BCG	History	13	12-23 m	1751	73
DTP1	C or H <12 months	81	12-23 m	1751	73
DTP1	Card	72	12-23 m	1751	73
DTP1	Card or History	83	12-23 m	1751	73
DTP1	History	11	12-23 m	1751	73
DTP3	C or H <12 months	74	12-23 m	1751	73
DTP3	Card	66	12-23 m	1751	73
DTP3	Card or History	79	12-23 m	1751	73

DTP3	History	12	12-23 m	1751	73
HepB1	C or H <12 months	81	12-23 m	1751	73
HepB1	Card	72	12-23 m	1751	73
HepB1	Card or History	83	12-23 m	1751	73
HepB1	History	11	12-23 m	1751	73
HepB3	C or H <12 months	74	12-23 m	1751	73
HepB3	Card	66	12-23 m	1751	73
HepB3	Card or History	79	12-23 m	1751	73
HepB3	History	12	12-23 m	1751	73
MCV1	C or H <12 months	72	12-23 m	1751	73
MCV1	Card	68	12-23 m	1751	73
MCV1	Card or History	84	12-23 m	1751	73
MCV1	History	16	12-23 m	1751	73
Pol1	C or H <12 months	91	12-23 m	1751	73
Pol1	Card	71	12-23 m	1751	73
Pol1	Card or History	94	12-23 m	1751	73
Pol1	History	23	12-23 m	1751	73
Pol3	C or H <12 months	76	12-23 m	1751	73
Pol3	Card	66	12-23 m	1751	73
Pol3	Card or History	81	12-23 m	1751	73
Pol3	History	15	12-23 m	1751	73
YFV	C or H <12 months	71	12-23 m	1751	73
YFV	Card	74	12-23 m	1751	73
YFV	Card or History	83	12-23 m	1751	73
YFV	History	9	12-23 m	1751	73

2000 Revue externe du PEV 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	87	12-23 m	-	98
DTP1	Card or History	87	12-23 m	-	98
DTP3	Card or History	70	12-23 m	-	98
MCV1	Card or History	69	12-23 m	-	98
Pol3	Card or History	70	12-23 m	-	98

1999 Côte d'Ivoire, Enquête à Indicateurs Multiples MICS 2000

Côte d'Ivoire - survey details

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	83	12-23 m	1588	77
BCG	Card	71	12-23 m	1588	77
BCG	Card or History	84	12-23 m	1588	77
BCG	History	13	12-23 m	1588	77
DTP1	C or H <12 months	75	12-23 m	1588	77
DTP1	Card	70	12-23 m	1588	77
DTP1	Card or History	79	12-23 m	1588	77
DTP1	History	9	12-23 m	1588	77
DTP3	C or H <12 months	56	12-23 m	1588	77
DTP3	Card	56	12-23 m	1588	77
DTP3	Card or History	62	12-23 m	1588	77
DTP3	History	6	12-23 m	1588	77
MCV1	C or H <12 months	53	12-23 m	1588	77
MCV1	Card	52	12-23 m	1588	77
MCV1	Card or History	62	12-23 m	1588	77
MCV1	History	10	12-23 m	1588	77
Pol1	C or H <12 months	82	12-23 m	1588	77
Pol1	Card	71	12-23 m	1588	77
Pol1	Card or History	86	12-23 m	1588	77
Pol1	History	14	12-23 m	1588	77
Pol3	C or H <12 months	56	12-23 m	1588	77
Pol3	Card	55	12-23 m	1588	77
Pol3	Card or History	62	12-23 m	1588	77
Pol3	History	7	12-23 m	1588	77
YFV	Card	47	12-23 m	1588	77
YFV	Card or History	48	12-23 m	1588	77
YFV	History	1	12-23 m	1588	77

1997 Enquête Démographique et de Santé, Côte d'Ivoire 1998-99, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	82	12-23 m	439	73
BCG	Card	70	12-23 m	439	73
BCG	Card or History	84	12-23 m	439	73
BCG	History	14	12-23 m	439	73
DTP1	C or H <12 months	80	12-23 m	439	73
DTP1	Card	69	12-23 m	439	73
DTP1	Card or History	83	12-23 m	439	73
DTP1	History	14	12-23 m	439	73
DTP3	C or H <12 months	55	12-23 m	439	73
DTP3	Card	54	12-23 m	439	73
DTP3	Card or History	61	12-23 m	439	73
DTP3	History	7	12-23 m	439	73
MCV1	C or H <12 months	51	12-23 m	439	73
MCV1	Card	57	12-23 m	439	73
MCV1	Card or History	66	12-23 m	439	73
MCV1	History	9	12-23 m	439	73
Pol1	C or H <12 months	82	12-23 m	439	73
Pol1	Card	70	12-23 m	439	73
Pol1	Card or History	86	12-23 m	439	73
Pol1	History	16	12-23 m	439	73
Pol3	C or H <12 months	55	12-23 m	439	73
Pol3	Card	54	12-23 m	439	73
Pol3	Card or History	61	12-23 m	439	73
Pol3	History	7	12-23 m	439	73

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